

SAFETY DATA SHEET

PROTIM E415

Page 1

Issued: 18/10/2005

Revision No: 2

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product name: PROTIM E415
Product code: MPRE415000
Synonyms: F 1405/14
Company name: Protim Abrasives Ltd
 Tolka Industrial Park
 Ballyboggan Road
 Glasnevin, Dublin 11
 Tel: +353 (01)8305966
 Fax: +353 (01)8305126
 Emergency tel: +353 (01)8611802

2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients: PROPICONAZOLE <5%
 EINECS: 262-104-4 CAS: 60207-90-1
 [Xn] R22; [Sens.] R43; [N] R50/53

- TEBUCONAZOLE <5%
 [Xn] R22; [N] R51/53; [Xn] R63
- M-PHENOXYBENZYL 3-(2,2-DICHLOROVINYL)-2,2-DIMETHYLCYCLOPROPANECARBOXYLATE (PERMETHRIN) <5%
 EINECS: 258-067-9 CAS: 52645-53-1
 [Xn] R20/22; [Sens.] R43; [N] R50/53
- TERPENE ALCOHOLS <5%
 [Xi] R36/37/38
- ETHOXYLATED ALCOHOL <5%
 [Xn] R22; [Xi] R41

3. HAZARDS IDENTIFICATION

Main hazards: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES (SYMPTOMS)

Skin contact: There may be mild irritation at the site of contact.
Eye contact: There may be irritation and redness.
Ingestion: There may be irritation of the throat.
Inhalation: No symptoms.

4. FIRST AID MEASURES (ACTION)

Skin contact: Wash immediately with plenty of soap and water.

[cont...]

Eye contact: Bathe the eye with running water for 15 minutes.

Ingestion: Wash out mouth with water.

Inhalation: Consult a doctor.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

Exposure hazards: In combustion emits toxic fumes.

Protection of fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Refer to section 8 of SDS for personal protection details. Turn leaking containers leak-side up to prevent the escape of liquid. Mark out the contaminated area with signs and prevent access to unauthorised personnel.

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

7. HANDLING AND STORAGE

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed. The floor of the storage room must be impermeable to prevent the escape of liquids.

Suitable packaging: Must only be kept in original packaging.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: The floor of the storage room must be impermeable to prevent the escape of liquids.

Respiratory protection: Respiratory protection not required.

Hand protection: Protective gloves.

Eye protection: Safety glasses.

Skin protection: Protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

State: Liquid

Colour: Pale yellow

Odour: Characteristic odour

Solubility in water: Miscible

Boiling point/range°C: Approx. 100°C

Flash point°C: n/a

Relative density: 1.0@20°C(g/cm³)

pH: Approx. 8

[cont...]

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Conditions to avoid: Heat.

Materials to avoid: Strong oxidising agents. Strong acids.

Haz. decomp. products: In combustion emits toxic fumes.

11. TOXICOLOGICAL INFORMATION

Hazardous ingredients: PROPICONAZOLE

ORL MUS LD50 1490 mg/kg

ORL RAT LD50 1517 mg/kg

SKN RAT LD50 4000 mg/kg

- TEBUCONAZOLE

ORL RAT (FEMALE) LD50 1700 mg/kg

ORL RAT(MALE) LD50 4000 mg/kg

SKN RAT LD50 >5000 mg/kg

- M-PHENOXYBENZYL

3-(2,2-DICHLOROVINYL)-2,2-DIMETHYLCYCLOPROPANECARBOXYLATE

ORL MUS LD50 424 mg/kg

ORL RAT LD50 383 mg/kg

SKN RAT LD50 1750 mg/kg

Routes of exposure: Refer to section 4 of SDS for routes of exposure and corresponding symptoms.

12. ECOLOGICAL INFORMATION

Hazardous ingredients: PROPICONAZOLE

DAPHNIA 48H EC50 4.8 mg/l

FISH BLUEGILLS 96H LC50 6.4 mg/l

FISH TROUT 96H LC50 5.3 mg/l

- TERPENE ALCOHOLS

FISH RAINBOW TROUT 96H LC50 71 mg/l

Mobility: Readily absorbed into soil.

Persistence and degradability: Biodegradable.

Bioaccumulative potential: No data available.

Other adverse effects: Toxic to aquatic organisms. Toxic to soil organisms.

13. DISPOSAL CONSIDERATIONS

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

[cont...]

14. TRANSPORT INFORMATION**ADR / RID**

UN no: 3082 **ADR Class:** 9
Packing group: III **Classification code:** M6
Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PROPICONAZOLE;
PERMETHRIN (M-PHENOXYBENZYL
3-(2,2-DICHLOROVINYL)-2,2-DIMETHYLCYCLOPROPANECARBOXYLATE))
Labelling: 9 **Hazard ID no:** 90

**IMDG / IMO**

UN no: 3082 **Class:** 9
Packing group: III **EmS:** -
Marine pollutant: . **Labelling:** 9

IATA / ICAO

UN no: 3082 **Class:** 9
Packing group: III **Packing instructions:** 914
Labelling: 9

15. REGULATORY INFORMATION

Hazard symbols: Dangerous for the environment.



Risk phrases: R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases: S2: Keep out of the reach of children.

S23: Do not breathe aerosol.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28: After contact with skin, wash immediately with plenty of water.

S36/37: Wear suitable protective clothing and gloves.

S60: This material and its container must be disposed of as hazardous waste.

S61: Avoid release to the environment. Refer to special instructions / safety data sheets.

[cont...]

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Precautionary phrases: Contains propiconazole, m-phenoxybenzyl
3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate. May produce an allergic reaction.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Risk phrases used in s.2: R22: Harmful if swallowed.
R43: May cause sensitisation by skin contact.
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R63: Possible risk of harm to the unborn child.
R20/22: Harmful by inhalation and if swallowed.
R36/37/38: Irritating to eyes, respiratory system and skin.
R41: Risk of serious damage to eyes.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

SAFETY DATA SHEET
PROTIM WALL SOLUTION 250

Page 1
Issued: 19/04/2004
Revision No: 1

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product name: PROTIM WALL SOLUTION 250
Product code: F 1679/1
Synonyms: MPWS250000
Company name: Protim Abrasives Ltd
Tolka Industrial Park
Ballyboggan Road
Glasnevin, Dublin 11
Tel: +353 (01)8305966
Fax: +353 (01)8305126
Emergency tel: +353 (01)8611802

2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients: TERPENE ALCOHOLS 5-10%
[Xi] R36/37/38
• CARBAMIC ACID, BUTYL-, 3-iodo-2-propynyl ester <5%
[Xn] R20/22; [Xi] R41; [N] R50
• OXOALCOHOL <5%
CAS: 68-131-39-5
[Xi] R36/38; [Xn] R22
• SULPHOSUCCINATE <5%
[Xi] R38; [Xi] R41

3. HAZARDS IDENTIFICATION

Main hazards: Risk of serious damage to eyes.

4. FIRST AID MEASURES (SYMPTOMS)

Skin contact: There may be irritation and redness at the site of contact.
Eye contact: There may be pain and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred. May cause permanent damage.
Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.
Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

4. FIRST AID MEASURES (ACTION)

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.
Eye contact: Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.
Ingestion: Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor.

[cont...]

SAFETY DATA SHEET
PROTIM WALL SOLUTION 250

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

Exposure hazards: In combustion emits toxic fumes.

Protection of fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid.

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

7. HANDLING AND STORAGE

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Avoid the formation or spread of mists in the air.

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed.

Suitable packaging: Must only be kept in original packaging.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.

Hand protection: Protective gloves.

Eye protection: Tightly fitting safety goggles. Ensure eye bath is to hand.

Skin protection: Protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

State: Liquid

Colour: Pale yellow

Odour: Characteristic odour

Solubility in water: Not miscible

Boiling point/range°C: 100

Flash point°C: n/a

Relative density: 1.0 @20°C (g/cm³)

pH: 6.5-7.5

[cont...]

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Conditions to avoid: Heat.

Materials to avoid: Strong oxidising agents. Strong acids.

Haz. decomp. products: In combustion emits toxic fumes.

11. TOXICOLOGICAL INFORMATION

Hazardous ingredients: CARBAMIC ACID, BUTYL-, 3-iodo-2-propynyl ester

ORL RAT LD50 1470 mg/kg

SKN RBT LD50 >2000 mg/kg

Routes of exposure: Refer to section 4 of SDS for routes of exposure and corresponding symptoms.

12. ECOLOGICAL INFORMATION

Hazardous ingredients: TERPENE ALCOHOLS

FISH RAINBOW TROUT 96H LC50 71 mg/l

- CARBAMIC ACID, BUTYL-, 3-iodo-2-propynyl ester

DAPHNIA 48H EC50 0.696 mg/l

FISH BLUEGILLS 96H LC50 0.23 mg/l

Mobility: Readily absorbed into soil.

Persistence and degradability: Biodegradable.

Bioaccumulative potential: No data available.

Other adverse effects: Harmful to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. TRANSPORT INFORMATION**ADR / RID**

UN no: -

Shipping name: "NOT SUBJECT TO ADR"

IMDG / IMO

UN no: -

IATA / ICAO

UN no: -

15. REGULATORY INFORMATION

Hazard symbols: Irritant.



[cont...]

SAFETY DATA SHEET
PROTIM WALL SOLUTION 250

Risk phrases: R41: Risk of serious damage to eyes.

Safety phrases: S2: Keep out of the reach of children.

S20/21: When using do not eat, drink or smoke.

S23: Do not breathe spray.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28: After contact with skin, wash immediately with plenty of water.

S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.

S60: This material and its container must be disposed of as hazardous waste.

S61: Avoid release to the environment. Refer to special instructions / safety data sheets.

Precautionary phrases: 3*-iodo-2-propynol-n-butyl carbamate is a carbamate compound which has weak anticholinesterase activity.

DO NOT USE if under medical advice NOT to work with anticholinesterase compounds.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Risk phrases used in s.2: R36/37/38: Irritating to eyes, respiratory system and skin.

R20/22: Harmful by inhalation and if swallowed.

R41: Risk of serious damage to eyes.

R50: Very toxic to aquatic organisms.

R36/38: Irritating to eyes and skin.

R22: Harmful if swallowed.

R38: Irritating to skin.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

SAFETY DATA SHEET

PROTIM UNIVERSAL AQ 250 (IRELAND)

Page 1

Issued: 18/10/2005

Revision No: 1

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product name: PROTIM UNIVERSAL AQ 250 (IRELAND)

Product code: F 1764/4

Company name: Protim Abrasives Ltd

Tolka Industrial Park

Ballyboggan Road

Glasnevin, Dublin 11

Tel: +353 (01)8305966

Fax: +353 (01)8305126

Emergency tel: +353 (01)8611802

2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients: M-PHENOXYBENZYL

3-(2,2-DICHLOROVINYL)-2,2-DIMETHYLCYCLOPROPANECARBOXYLATE <5%

EINECS: 258-067-9 CAS: 52645-53-1

[Xn] R20/22; [Sens.] R43; [N] R50/53

- CARBAMIC ACID, BUTYL-, 3-ISO-2-PROPYNYL ESTER <5%

[Xn] R20/22; [Xi] R41; [N] R50

- SULPHOSUCCINATE <5%

[Xi] R38; [Xi] R41

- OXOALCOHOL 5-10%

CAS: 68-131-39-5

[Xi] R36/38; [Xn] R22

3. HAZARDS IDENTIFICATION

Main hazards: Irritating to eyes. May cause sensitisation by skin contact. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES (SYMPTOMS)

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat.

Inhalation: Exposure may cause coughing or wheezing.

4. FIRST AID MEASURES (ACTION)

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water. Consult a doctor.

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Wash out mouth with water. Consult a doctor.

[cont...]

SAFETY DATA SHEET

PROTIM UNIVERSAL AQ 250 (IRELAND)

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

Exposure hazards: In combustion emits toxic fumes.

Protection of fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid.

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

7. HANDLING AND STORAGE

Handling requirements: Avoid direct contact with the substance. Avoid the formation or spread of mists in the air.

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed.

Suitable packaging: Must only be kept in original packaging.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.

Hand protection: Impermeable gloves.

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Impermeable protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

State: Liquid

Colour: Pale yellow

Odour: Characteristic odour

Solubility in water: Miscible

Boiling point/range°C: ~100°C

Flash point°C: n/a

Relative density: 1.015

pH: 6.5 - 7.5

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Conditions to avoid: Heat.

[cont...]

SAFETY DATA SHEET
PROTIM UNIVERSAL AQ 250 (IRELAND)**Materials to avoid:** Strong oxidising agents. Strong acids.**Haz. decomp. products:** In combustion emits toxic fumes.**11. TOXICOLOGICAL INFORMATION****Hazardous ingredients:** M-PHENOXYBENZYL

3-(2,2-DICHLOROVINYL)-2,2-DIMETHYLCYCLOPROPANECARBOXYLATE

ORL MUS LD50 424 mg/kg

ORL RAT LD50 383 mg/kg

SKN RAT LD50 1750 mg/kg

- CARBAMIC ACID, BUTYL-, 3-iodo-2-propynyl ester

ORL RAT LD50 1470 mg/kg

SKN RBT LD50 >2000 mg/kg

Chronic toxicity: May cause sensitisation by skin contact.**Routes of exposure:** Refer to section 4 of SDS for routes of exposure and corresponding symptoms.**12. ECOLOGICAL INFORMATION****Hazardous ingredients:** CARBAMIC ACID, BUTYL-, 3-iodo-2-propynyl ester

DAPHNIA 48H EC50 0.696 mg/l

FISH BLUEGILLS 96H LC50 0.23 mg/l

Mobility: Readily absorbed into soil.**Persistence and degradability:** Biodegradable in part only.**Bioaccumulative potential:** No data available.**Other adverse effects:** Very toxic to aquatic organisms.**13. DISPOSAL CONSIDERATIONS****NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.**14. TRANSPORT INFORMATION****ADR / RID****UN no:** 3082**ADR Class:** 9**Packing group:** III**Classification code:** M6**Shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.**Labelling:** 9**Hazard ID no:** 90

[cont...]

SAFETY DATA SHEET
PROTIM UNIVERSAL AQ 250 (IRELAND)**IMDG / IMO**

UN no: 3082	Class: 9
Packing group: III	EmS: F-A,S-F
Marine pollutant: .	Labelling: 9

IATA / ICAO

UN no: 3082	Class: 9
Packing group: III	Packing instructions: 914
Labelling: 9	

15. REGULATORY INFORMATION

Hazard symbols: Dangerous for the environment.
Irritant.



Risk phrases: R36: Irritating to eyes.

R43: May cause sensitisation by skin contact.

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases: S24: Avoid contact with skin.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37: Wear suitable gloves.

S60: This material and its container must be disposed of as hazardous waste.

S61: Avoid release to the environment. Refer to special instructions / safety data sheets.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Risk phrases used in s.2: R20/22: Harmful by inhalation and if swallowed.

R43: May cause sensitisation by skin contact.

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R41: Risk of serious damage to eyes.

R50: Very toxic to aquatic organisms.

R38: Irritating to skin.

[cont...]

SAFETY DATA SHEET
PROTIM UNIVERSAL AQ 250 (IRELAND)

R36/38: Irritating to eyes and skin.

R22: Harmful if swallowed.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

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SAFETY DATA SHEET

PROTIM E406

Page 1

Issued: 27/02/2007

Revision No: 1

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product name: PROTIM E406
Product code: F 1962
Company name: Protim Abrasives Ltd
 Tolka Industrial Park
 Ballyboggan Road
 Glasnevin, Dublin 11
 Tel: +353 (01)8305966
 Fax: +353 (01)8305126
 Emergency tel: +353 (01)8611802

2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients: M-PHENOXYBENZYL
 3-(2,2-DICHLOROVINYL)-2,2-DIMETHYLCYCLOPROPANECARBOXYLATE (PERMETHRIN) <5%
 EINECS: 258-067-9 CAS: 52645-53-1
 [Xn] R20/22; [Sens.] R43; [N] R50/53
 • MIXTURE OF ALKYL TERTIARY AMINES <5%
 [Xn] R22; [C] R34; [Xi] R41; [N] R50
 • ALKYLAMINE ETHOXYLATES <5%
 [Xi] R41; [N] R51/53

3. HAZARDS IDENTIFICATION

Main hazards: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES (SYMPTOMS)

Skin contact: There may be mild irritation at the site of contact.
Eye contact: There may be irritation and redness.
Ingestion: There may be irritation of the throat.
Inhalation: No symptoms.

4. FIRST AID MEASURES (ACTION)

Skin contact: Wash immediately with plenty of soap and water.
Eye contact: Bathe the eye with running water for 15 minutes.
Ingestion: Wash out mouth with water.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.
Exposure hazards: In combustion emits toxic fumes.

[cont...]

Protection of fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Refer to section 8 of SDS for personal protection details. Turn leaking containers leak-side up to prevent the escape of liquid. Mark out the contaminated area with signs and prevent access to unauthorised personnel.

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

7. HANDLING AND STORAGE

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed. The floor of the storage room must be impermeable to prevent the escape of liquids.

Suitable packaging: Must only be kept in original packaging.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: The floor of the storage room must be impermeable to prevent the escape of liquids.

Respiratory protection: Respiratory protection not required.

Hand protection: Protective gloves.

Eye protection: Safety glasses.

Skin protection: Protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

State: Liquid

Colour: Pale yellow

Odour: Characteristic odour

Solubility in water: Miscible

Flash point°C: n/a

Relative density: 1.003@23°C(g/cm³)

pH: 6.5 - 8.85

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Conditions to avoid: Heat.

Materials to avoid: Strong oxidising agents. Strong acids.

Haz. decomp. products: In combustion emits toxic fumes.

11. TOXICOLOGICAL INFORMATION

Hazardous ingredients: M-PHENOXYBENZYL

3-(2,2-DICHLOROVINYL)-2,2-DIMETHYLCYCLOPROPANECARBOXYLATE

[cont...]

SAFETY DATA SHEET

PROTIM E406

ORL MUS LD50 424 mg/kg

ORL RAT LD50 383 mg/kg

SKN RAT LD50 1750 mg/kg

- ALKYLAMINE ETHOXYLATES

ORL RAT LD50 4500 mg/kg

Routes of exposure: Refer to section 4 of SDS for routes of exposure and corresponding symptoms.**12. ECOLOGICAL INFORMATION****Hazardous ingredients:** ALKYLAMINE ETHOXYLATES

DAPHNIA 48H EC50 2.3 mg/l

FISH RAINBOW TROUT 96H LC50 6 mg/l

Mobility: Readily absorbed into soil.**Persistence and degradability:** Not biodegradable.**Bioaccumulative potential:** No data available.**Other adverse effects:** Very toxic to aquatic organisms.**13. DISPOSAL CONSIDERATIONS****NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.**14. TRANSPORT INFORMATION****ADR / RID****UN no:** 3082**ADR Class:** 9**Packing group:** III**Classification code:** M6**Shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PERMETHRIN)**Labelling:** 9**Hazard ID no:** 90**IMDG / IMO****UN no:** 3082**Class:** 9**Packing group:** III**EmS:** -**Marine pollutant:** .**Labelling:** 9**IATA / ICAO****UN no:** 3082**Class:** 9**Packing group:** III**Packing instructions:** 914**Labelling:** 9

[cont...]

15. REGULATORY INFORMATION

Hazard symbols: Dangerous for the environment.



Risk phrases: R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases: S23: Do not breathe aerosol.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28: After contact with skin, wash immediately with plenty of water.

S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.

S60: This material and its container must be disposed of as hazardous waste.

S61: Avoid release to the environment. Refer to special instructions / safety data sheets.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Risk phrases used in s.2: R20/22: Harmful by inhalation and if swallowed.

R43: May cause sensitisation by skin contact.

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R22: Harmful if swallowed.

R34: Causes burns.

R41: Risk of serious damage to eyes.

R50: Very toxic to aquatic organisms.

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

SAFETY DATA SHEET

PROTIM GREEN E

Page 1

Issued: 16/03/2006

Revision No: 1

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product name: PROTIM GREEN E
Product code: F 1973
Company name: Protim Abrasives Ltd
Tolka Industrial Park
Ballyboggan Road
Glasnevin, Dublin 11
Tel: +353 (01)8305966
Fax: +353 (01)8305126
Emergency tel: +353 (01)8611802

2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients: KEROSENE - UNSPECIFIED - DISTILLATES (PETROLEUM), HYDROTREATED LIGHT
>90%
EINECS: 265-149-8 CAS: 64742-47-8
[Xn] R65; [N] R51/53

- M-PHENOXYBENZYL
3-(2,2-DICHLOROVINYL)-2,2-DIMETHYLCYCLOPROPANECARBOXYLATE (PERMETHRIN) <5%
EINECS: 258-067-9 CAS: 52645-53-1
[Xn] R20/22; [Sens.] R43; [N] R50/53
- PROPICONAZOLE <5%
EINECS: 262-104-4 CAS: 60207-90-1
[Xn] R22; [Sens.] R43; [N] R50/53

3. HAZARDS IDENTIFICATION

Main hazards: May cause sensitisation by skin contact. Very toxic to aquatic organisms. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Harmful: may cause lung damage if swallowed.

4. FIRST AID MEASURES (SYMPTOMS)

Skin contact: There may be irritation and redness at the site of contact.
Eye contact: There may be irritation and redness. The eyes may water profusely.
Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.
Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

4. FIRST AID MEASURES (ACTION)

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor.

[cont...]

SAFETY DATA SHEET

PROTIM GREEN E

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

Exposure hazards: In combustion emits toxic fumes.

Protection of fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

7. HANDLING AND STORAGE

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air.

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed.

Suitable packaging: Must only be kept in original packaging.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.

Hand protection: Impermeable gloves.

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Impermeable protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

State: Liquid

Colour: Green

Odour: Characteristic odour

Solubility in water: Not miscible

Viscosity value: 46 seconds

[cont...]

Viscosity test method: Flow time in seconds in a 3 mm ISO cup (ISO 2431)

Flash point°C: 75°C

Relative density: 0.80 - 0.82

pH: 5.0 - 5.20

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Conditions to avoid: Heat.

Materials to avoid: Strong oxidising agents. Strong acids.

Haz. decomp. products: In combustion emits toxic fumes.

11. TOXICOLOGICAL INFORMATION

Hazardous ingredients: M-PHENOXYBENZYL

3-(2,2-DICHLOROVINYL)-2,2-DIMETHYLCYCLOPROPANECARBOXYLATE

ORL MUS LD50 424 mg/kg

ORL RAT LD50 383 mg/kg

SKN RAT LD50 1750 mg/kg

- PROPICONAZOLE

ORL MUS LD50 1490 mg/kg

ORL RAT LD50 1517 mg/kg

SKN RAT LD50 4000 mg/kg

Chronic toxicity: May cause sensitisation by skin contact.

Routes of exposure: Refer to section 4 of SDS for routes of exposure and corresponding symptoms.

12. ECOLOGICAL INFORMATION

Hazardous ingredients: PROPICONAZOLE

DAPHNIA 48H EC50 4.8 mg/l

FISH BLUEGILLS 96H LC50 6.4 mg/l

FISH TROUT 96H LC50 5.3 mg/l

Mobility: Readily absorbed into soil.

Persistence and degradability: Biodegradable in part only.

Bioaccumulative potential: No data available.

Other adverse effects: Very toxic to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. TRANSPORT INFORMATION

[cont...]

SAFETY DATA SHEET

PROTIM GREEN E

ADR / RID

UN no: 3082 **ADR Class:** 9
Packing group: III **Classification code:** M6
Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (KEROSENE -
UNSPECIFIED - DISTILLATES (PETROLEUM), HYDROTREATED LIGHT;
M-PHENOXYBENZYL
3-(2,2-DICHLOROVINYL)-2,2-DIMETHYLCYCLOPROPANECARBOXYLATE;
PROPICONAZOLE)
Labelling: 9 **Hazard ID no:** 90



IMDG / IMO

UN no: 3082 **Class:** 9
Packing group: III **EmS:** F-A,S-F
Marine pollutant: . **Labelling:** 9

IATA / ICAO

UN no: 3082 **Class:** 9
Packing group: III **Packing instructions:** 914
Labelling: 9

15. REGULATORY INFORMATION

Hazard symbols: Harmful.
Dangerous for the environment.



Risk phrases: R43: May cause sensitisation by skin contact.
R50: Very toxic to aquatic organisms.
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65: Harmful: may cause lung damage if swallowed.
Safety phrases: S2: Keep out of the reach of children.
S13: Keep away from food, drink and animal feeding stuffs.
S16: Keep away from sources of ignition - No smoking.
S24/25: Avoid contact with skin and eyes.

[cont...]

SAFETY DATA SHEET

PROTIM GREEN E

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28: After contact with skin, wash immediately with plenty of water.

S36/37: Wear suitable protective clothing and gloves.

S60: This material and its container must be disposed of as hazardous waste.

S61: Avoid release to the environment. Refer to special instructions / safety data sheets.

S62: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Risk phrases used in s.2: R65: Harmful: may cause lung damage if swallowed.
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R20/22: Harmful by inhalation and if swallowed.
R43: May cause sensitisation by skin contact.
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R22: Harmful if swallowed.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

SAFETY DATA SHEET

PROTIM UNIVERSAL

Page 1

Issued: 13/08/2006

Revision No: 1

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product name: PROTIM UNIVERSAL
Product code: F 2000
Company name: Protim Abrasives Ltd
 Tolka Industrial Park
 Ballyboggan Road
 Glasnevin, Dublin 11
 Tel: +353 (01)8305966
 Fax: +353 (01)8305126
 Emergency tel: +353 (01)8611802

2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients: KEROSENE - UNSPECIFIED - DISTILLATES (PETROLEUM), HYDROTREATED LIGHT
 >90%
 EINECS: 265-149-8 CAS: 64742-47-8
 [Xn] R65; [N] R51/53

- M-PHENOXYBENZYL
 3-(2,2-DICHLOROVINYL)-2,2-DIMETHYLCYCLOPROPANECARBOXYLATE (PERMETHRIN) <5%
 EINECS: 258-067-9 CAS: 52645-53-1
 [Xn] R20/22; [Sens.] R43; [N] R50/53
- PROPICONAZOLE <5%
 EINECS: 262-104-4 CAS: 60207-90-1
 [Xn] R22; [Sens.] R43; [N] R50/53

3. HAZARDS IDENTIFICATION

Main hazards: May cause sensitisation by skin contact. Very toxic to aquatic organisms. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Harmful: may cause lung damage if swallowed.

4. FIRST AID MEASURES (SYMPTOMS)

Skin contact: There may be irritation and redness at the site of contact.
Eye contact: There may be irritation and redness. The eyes may water profusely.
Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.
Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

4. FIRST AID MEASURES (ACTION)

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor.

[cont...]

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

Exposure hazards: In combustion emits toxic fumes.

Protection of fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

7. HANDLING AND STORAGE

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air.

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed.

Suitable packaging: Must only be kept in original packaging.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.

Hand protection: Impermeable gloves.

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Impermeable protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

State: Liquid

Colour: Colourless

Odour: Characteristic odour

Solubility in water: Not miscible

Viscosity value: 46 seconds

[cont...]

Viscosity test method: Flow time in seconds in a 3 mm ISO cup (ISO 2431)

Flash point°C: 75°C

Relative density: 0.80 - 0.82

pH: 5.0-5.2

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Conditions to avoid: Heat.

Materials to avoid: Strong oxidising agents. Strong acids.

Haz. decomp. products: In combustion emits toxic fumes.

11. TOXICOLOGICAL INFORMATION

Hazardous ingredients: M-PHENOXYBENZYL

3-(2,2-DICHLOROVINYL)-2,2-DIMETHYLCYCLOPROPANECARBOXYLATE

ORL MUS LD50 424 mg/kg

ORL RAT LD50 383 mg/kg

SKN RAT LD50 1750 mg/kg

- PROPICONAZOLE

ORL MUS LD50 1490 mg/kg

ORL RAT LD50 1517 mg/kg

SKN RAT LD50 4000 mg/kg

Chronic toxicity: May cause sensitisation by skin contact.

Routes of exposure: Refer to section 4 of SDS for routes of exposure and corresponding symptoms.

12. ECOLOGICAL INFORMATION

Hazardous ingredients: PROPICONAZOLE

DAPHNIA 48H EC50 4.8 mg/l

FISH BLUEGILLS 96H LC50 6.4 mg/l

FISH TROUT 96H LC50 5.3 mg/l

Mobility: Readily absorbed into soil.

Persistence and degradability: Biodegradable in part only.

Bioaccumulative potential: No data available.

Other adverse effects: Very toxic to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. TRANSPORT INFORMATION

[cont...]

SAFETY DATA SHEET

PROTIM UNIVERSAL

ADR / RID

UN no: 3082 **ADR Class:** 9
Packing group: III **Classification code:** M6
Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (KEROSENE -
UNSPECIFIED - DISTILLATES (PETROLEUM), HYDROTREATED LIGHT;
M-PHENOXYBENZYL
3-(2,2-DICHLOROVINYL)-2,2-DIMETHYLCYCLOPROPANECARBOXYLATE;
PROPICONAZOLE)
Labelling: 9 **Hazard ID no:** 90



IMDG / IMO

UN no: 3082 **Class:** 9
Packing group: III **EmS:** F-A,S-F
Marine pollutant: . **Labelling:** 9

IATA / ICAO

UN no: 3082 **Class:** 9
Packing group: III **Packing instructions:** 914
Labelling: 9

15. REGULATORY INFORMATION

Hazard symbols: Harmful.
Dangerous for the environment.



Risk phrases: R43: May cause sensitisation by skin contact.
R50: Very toxic to aquatic organisms.
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65: Harmful: may cause lung damage if swallowed.
Safety phrases: S2: Keep out of the reach of children.
S13: Keep away from food, drink and animal feeding stuffs.
S16: Keep away from sources of ignition - No smoking.
S24/25: Avoid contact with skin and eyes.

[cont...]

SAFETY DATA SHEET

PROTIM UNIVERSAL

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28: After contact with skin, wash immediately with plenty of water.

S36/37: Wear suitable protective clothing and gloves.

S60: This material and its container must be disposed of as hazardous waste.

S61: Avoid release to the environment. Refer to special instructions / safety data sheets.

S62: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Risk phrases used in s.2: R65: Harmful: may cause lung damage if swallowed.
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R20/22: Harmful by inhalation and if swallowed.
R43: May cause sensitisation by skin contact.
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R22: Harmful if swallowed.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

SAFETY DATA SHEET

PROTIM BROWN CDB

Page 1

Issued: 01/03/06

Revision No: 1

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product name: PROTIM BROWN CDB
Product code: F 2001
Company name: Protim Abrasives Ltd
 Tolka Industrial Park
 Ballyboggan Road
 Glasnevin, Dublin 11
 Tel: +353 (01)8305966
 Fax: +353 (01)8305126
 Emergency tel: +353 (01)8611802

2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients: KEROSENE - UNSPECIFIED - DISTILLATES (PETROLEUM), HYDROTREATED LIGHT
 >90%
 EINECS: 265-149-8 CAS: 64742-47-8
 [Xn] R65; [N] R51/53

- M-PHENOXYBENZYL
 3-(2,2-DICHLOROVINYL)-2,2-DIMETHYLCYCLOPROPANECARBOXYLATE (PERMETHRIN) <5%
 EINECS: 258-067-9 CAS: 52645-53-1
 [Xn] R20/22; [Sens.] R43; [N] R50/53
- PROPICONAZOLE <5%
 EINECS: 262-104-4 CAS: 60207-90-1
 [Xn] R22; [Sens.] R43; [N] R50/53

3. HAZARDS IDENTIFICATION

Main hazards: May cause sensitisation by skin contact. Very toxic to aquatic organisms. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Harmful: may cause lung damage if swallowed.

4. FIRST AID MEASURES (SYMPTOMS)

Skin contact: There may be irritation and redness at the site of contact.
Eye contact: There may be irritation and redness. The eyes may water profusely.
Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.
Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

4. FIRST AID MEASURES (ACTION)

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor.

[cont...]

SAFETY DATA SHEET

PROTIM BROWN CDB

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

Exposure hazards: In combustion emits toxic fumes.

Protection of fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

7. HANDLING AND STORAGE

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air.

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed.

Suitable packaging: Must only be kept in original packaging.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.

Hand protection: Impermeable gloves.

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Impermeable protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

State: Liquid

Colour: Brown

Odour: Characteristic odour

Solubility in water: Miscible

Viscosity value: 46 seconds

[cont...]

Viscosity test method: Flow time in seconds in a 3 mm ISO cup (ISO 2431)

Flash point°C: 75°C

Relative density: 0.80 - 0.82

pH: 5.0 -5.2

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Conditions to avoid: Heat.

Materials to avoid: Strong oxidising agents. Strong acids.

Haz. decomp. products: In combustion emits toxic fumes.

11. TOXICOLOGICAL INFORMATION

Hazardous ingredients: M-PHENOXYBENZYL

3-(2,2-DICHLOROVINYL)-2,2-DIMETHYLCYCLOPROPANECARBOXYLATE

ORL MUS LD50 424 mg/kg

ORL RAT LD50 383 mg/kg

SKN RAT LD50 1750 mg/kg

- PROPICONAZOLE

ORL MUS LD50 1490 mg/kg

ORL RAT LD50 1517 mg/kg

SKN RAT LD50 4000 mg/kg

Chronic toxicity: May cause sensitisation by skin contact.

Routes of exposure: Refer to section 4 of SDS for routes of exposure and corresponding symptoms.

12. ECOLOGICAL INFORMATION

Hazardous ingredients: PROPICONAZOLE

DAPHNIA 48H EC50 4.8 mg/l

FISH BLUEGILLS 96H LC50 6.4 mg/l

FISH TROUT 96H LC50 5.3 mg/l

Mobility: Absorbed only slowly into soil.

Persistence and degradability: Biodegradable in part only.

Bioaccumulative potential: No data available.

Other adverse effects: Very toxic to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. TRANSPORT INFORMATION

[cont...]

SAFETY DATA SHEET

PROTIM BROWN CDB

ADR / RID

UN no: 3082 **ADR Class:** 9
Packing group: III **Classification code:** M6
Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (KEROSENE -
UNSPECIFIED - DISTILLATES (PETROLEUM), HYDROTREATED LIGHT;
M-PHENOXYBENZYL
3-(2,2-DICHLOROVINYL)-2,2-DIMETHYLCYCLOPROPANECARBOXYLATE;
PROPICONAZOLE)
Labelling: 9 **Hazard ID no:** 90

**IMDG / IMO**

UN no: 3082 **Class:** 9
Packing group: III **EmS:** F-A,S-F
Marine pollutant: . **Labelling:** 9

IATA / ICAO

UN no: 3082 **Class:** 9
Packing group: III **Packing instructions:** 914
Labelling: 9

15. REGULATORY INFORMATION

Hazard symbols: Harmful.
Dangerous for the environment.



Risk phrases: R43: May cause sensitisation by skin contact.
R50: Very toxic to aquatic organisms.
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65: Harmful: may cause lung damage if swallowed.
Safety phrases: S2: Keep out of the reach of children.
S13: Keep away from food, drink and animal feeding stuffs.
S16: Keep away from sources of ignition - No smoking.
S24/25: Avoid contact with skin and eyes.

[cont...]

SAFETY DATA SHEET

PROTIM BROWN CDB

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28: After contact with skin, wash immediately with plenty of water.

S36/37: Wear suitable protective clothing and gloves.

S60: This material and its container must be disposed of as hazardous waste.

S61: Avoid release to the environment. Refer to special instructions / safety data sheets.

S62: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Risk phrases used in s.2: R65: Harmful: may cause lung damage if swallowed.
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R20/22: Harmful by inhalation and if swallowed.
R43: May cause sensitisation by skin contact.
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R22: Harmful if swallowed.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

SAFETY DATA SHEET
BROOKS WOOD PRESERVER CLEAR

Page 1
Issued: 01/02/2007
Revision No: 1

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product name: BROOKS WOOD PRESERVER CLEAR
Product code: F 2029
Company name: Protim Abrasives Ltd
Tolka Industrial Park
Ballyboggan Road
Glasnevin, Dublin 11
Tel: +353 (01)8305966
Fax: +353 (01)8305126
Emergency tel: +353 (01)8611802

2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients: PROPICONAZOLE <5%
EINECS: 262-104-4 CAS: 60207-90-1
[Xn] R22; [Sens.] R43; [N] R50/53

- M-PHENOXYBENZYL
3-(2,2-DICHLOROVINYL)-2,2-DIMETHYLCYCLOPROPANECARBOXYLATE (PERMETHRIN) <5%
EINECS: 258-067-9 CAS: 52645-53-1
[Xn] R20/22; [Sens.] R43; [N] R50/53
- TERPENE ALCOHOLS <5%
[Xi] R36/37/38
- OXOALCOHOL <5%
CAS: 68-131-39-5
[Xi] R36/38; [Xn] R22
- SULPHOSUCCINATE <5%
[Xi] R38; [Xi] R41

3. HAZARDS IDENTIFICATION

Main hazards: May cause sensitisation by skin contact. Very toxic to aquatic organisms. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES (SYMPTOMS)

Skin contact: There may be irritation and redness at the site of contact.
Eye contact: There may be irritation and redness. The eyes may water profusely.
Ingestion: There may be soreness and redness of the mouth and throat.
Inhalation: Exposure may cause coughing or wheezing.

4. FIRST AID MEASURES (ACTION)

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water. Consult a doctor.

[cont...]

SAFETY DATA SHEET
BROOKS WOOD PRESERVER CLEAR

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Wash out mouth with water. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

Exposure hazards: In combustion emits toxic fumes.

Protection of fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid.

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

7. HANDLING AND STORAGE

Handling requirements: Avoid direct contact with the substance. Avoid the formation or spread of mists in the air.

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed.

Suitable packaging: Must only be kept in original packaging.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.

Hand protection: Impermeable gloves.

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Impermeable protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

State: Liquid

Colour: Colourless

Odour: Characteristic odour

Solubility in water: Miscible

Viscosity value: 23 seconds

Viscosity test method: Flow time in seconds in a 3 mm ISO cup (ISO 2431)

Flash point°C: n/a

Relative density: 0.95 - 1.05

pH: 8.4 - 9.0

[cont...]

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Conditions to avoid: Heat.

Materials to avoid: Strong oxidising agents. Strong acids.

Haz. decomp. products: In combustion emits toxic fumes.

11. TOXICOLOGICAL INFORMATION

Hazardous ingredients: PROPICONAZOLE

ORL MUS LD50 1490 mg/kg

ORL RAT LD50 1517 mg/kg

SKN RAT LD50 4000 mg/kg

- M-PHENOXYBENZYL

3-(2,2-DICHLOROVINYL)-2,2-DIMETHYLCYCLOPROPANECARBOXYLATE

ORL MUS LD50 424 mg/kg

ORL RAT LD50 383 mg/kg

SKN RAT LD50 1750 mg/kg

Chronic toxicity: May cause sensitisation by skin contact.

Routes of exposure: Refer to section 4 of SDS for routes of exposure and corresponding symptoms.

12. ECOLOGICAL INFORMATION

Hazardous ingredients: PROPICONAZOLE

DAPHNIA 48H EC50 4.8 mg/l

FISH BLUEGILLS 96H LC50 6.4 mg/l

FISH TROUT 96H LC50 5.3 mg/l

- TERPENE ALCOHOLS

FISH RAINBOW TROUT 96H LC50 71 mg/l

Mobility: Readily absorbed into soil.

Persistence and degradability: Biodegradable in part only.

Bioaccumulative potential: No data available.

Other adverse effects: Very toxic to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. TRANSPORT INFORMATION**ADR / RID**

UN no: 3082

ADR Class: 9

Packing group: III

Classification code: M6

[cont...]

SAFETY DATA SHEET
BROOKS WOOD PRESERVER CLEAR**Shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PROPICONAZOLE;
PERMETHRIN)**Labelling:** 9**Hazard ID no:** 90**IMDG / IMO****UN no:** 3082**Class:** 9**Packing group:** III**EmS:** F-A,S-F**Marine pollutant:** .**Labelling:** 9**IATA / ICAO****UN no:** 3082**Class:** 9**Packing group:** III**Packing instructions:** 914**Labelling:** 9**15. REGULATORY INFORMATION****Hazard symbols:** Irritant.

Dangerous for the environment.

**Risk phrases:** R43: May cause sensitisation by skin contact.

R50: Very toxic to aquatic organisms.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases: S2: Keep out of the reach of children.

S24: Avoid contact with skin.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.

S28: After contact with skin, wash immediately with plenty of water.

S60: This material and its container must be disposed of as hazardous waste.

S61: Avoid release to the environment. Refer to special instructions / safety data sheets.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

[cont...]

SAFETY DATA SHEET
BROOKS WOOD PRESERVER CLEAR

16. OTHER INFORMATION

Risk phrases used in s.2: R22: Harmful if swallowed.

R43: May cause sensitisation by skin contact.

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R20/22: Harmful by inhalation and if swallowed.

R36/37/38: Irritating to eyes, respiratory system and skin.

R36/38: Irritating to eyes and skin.

R38: Irritating to skin.

R41: Risk of serious damage to eyes.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

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SAFETY DATA SHEET
BROOKS WOOD PRESERVER - BROWN

Page 1
Issued: 24/01/2007
Revision No: 1

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product name: BROOKS WOOD PRESERVER - BROWN
Product code: F 2030
Company name: Protim Abrasives Ltd
Tolka Industrial Park
Ballyboggan Road
Glasnevin, Dublin 11
Tel: +353 (01)8305966
Fax: +353 (01)8305126
Emergency tel: +353 (01)8611802

2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients: PROPICONAZOLE <5%
EINECS: 262-104-4 CAS: 60207-90-1
[Xn] R22; [Sens.] R43; [N] R50/53

- M-PHENOXYBENZYL
3-(2,2-DICHLOROVINYL)-2,2-DIMETHYLCYCLOPROPANECARBOXYLATE (PERMETHRIN) <5%
EINECS: 258-067-9 CAS: 52645-53-1
[Xn] R20/22; [Sens.] R43; [N] R50/53
- TERPENE ALCOHOLS <5%
[Xi] R36/37/38
- OXOALCOHOL <5%
CAS: 68-131-39-5
[Xi] R36/38; [Xn] R22
- SULPHOSUCCINATE <5%
[Xi] R38; [Xi] R41
- AZO DYESTUFF, ANIONIC, CONTAINING CI ACID BROWN 75 <5%
[-] R52/53

3. HAZARDS IDENTIFICATION

Main hazards: May cause sensitisation by skin contact. Very toxic to aquatic organisms. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES (SYMPTOMS)

Skin contact: There may be irritation and redness at the site of contact.
Eye contact: There may be irritation and redness. The eyes may water profusely.
Ingestion: There may be soreness and redness of the mouth and throat.
Inhalation: Exposure may cause coughing or wheezing.

[cont...]

SAFETY DATA SHEET

BROOKS WOOD PRESERVER - BROWN

4. FIRST AID MEASURES (ACTION)

- Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water. Consult a doctor.
- Eye contact:** Bathe the eye with running water for 15 minutes. Consult a doctor.
- Ingestion:** Wash out mouth with water. Consult a doctor.
- Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

5. FIRE-FIGHTING MEASURES

- Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.
- Exposure hazards:** In combustion emits toxic fumes.
- Protection of fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions:** Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid.
- Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.
- Clean-up procedures:** Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

7. HANDLING AND STORAGE

- Handling requirements:** Avoid direct contact with the substance. Avoid the formation or spread of mists in the air.
- Storage conditions:** Store in cool, well ventilated area. Keep container tightly closed.
- Suitable packaging:** Must only be kept in original packaging.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Engineering measures:** Ensure there is sufficient ventilation of the area.
- Respiratory protection:** Self-contained breathing apparatus must be available in case of emergency.
- Hand protection:** Impermeable gloves.
- Eye protection:** Safety glasses. Ensure eye bath is to hand.
- Skin protection:** Impermeable protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

- State:** Liquid
- Colour:** Brown
- Odour:** Characteristic odour
- Solubility in water:** Miscible
- Viscosity value:** 23 seconds
- Viscosity test method:** Flow time in seconds in a 3 mm ISO cup (ISO 2431)

[cont...]

SAFETY DATA SHEET

BROOKS WOOD PRESERVER - BROWN

Flash point°C: n/a
Relative density: 0.95 - 1.05
pH: 8.4 - 9.0

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.
Conditions to avoid: Heat.
Materials to avoid: Strong oxidising agents. Strong acids.
Haz. decomp. products: In combustion emits toxic fumes.

11. TOXICOLOGICAL INFORMATION

Hazardous ingredients: PROPICONAZOLE
 ORL MUS LD50 1490 mg/kg
 ORL RAT LD50 1517 mg/kg
 SKN RAT LD50 4000 mg/kg
 • M-PHENOXYBENZYL
 3-(2,2-DICHLOROVINYL)-2,2-DIMETHYLCYCLOPROPANECARBOXYLATE
 ORL MUS LD50 424 mg/kg
 ORL RAT LD50 383 mg/kg
 SKN RAT LD50 1750 mg/kg
Chronic toxicity: May cause sensitisation by skin contact.
Routes of exposure: Refer to section 4 of SDS for routes of exposure and corresponding symptoms.

12. ECOLOGICAL INFORMATION

Hazardous ingredients: PROPICONAZOLE
 DAPHNIA 48H EC50 4.8 mg/l
 FISH BLUEGILLS 96H LC50 6.4 mg/l
 FISH TROUT 96H LC50 5.3 mg/l
 • TERPENE ALCOHOLS
 FISH RAINBOW TROUT 96H LC50 71 mg/l
Mobility: Readily absorbed into soil.
Persistence and degradability: Biodegradable in part only.
Bioaccumulative potential: No data available.
Other adverse effects: Very toxic to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

SAFETY DATA SHEET
BROOKS WOOD PRESERVER - BROWN**14. TRANSPORT INFORMATION****ADR / RID**

UN no: 3082 **ADR Class:** 9
Packing group: III **Classification code:** M6
Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PROPICONAZOLE;
PERMETHRIN)
Labelling: 9 **Hazard ID no:** 90

**IMDG / IMO**

UN no: 3082 **Class:** 9
Packing group: III **EmS:** F-A,S-F
Marine pollutant: . **Labelling:** 9

IATA / ICAO

UN no: 3082 **Class:** 9
Packing group: III **Packing instructions:** 914
Labelling: 9

15. REGULATORY INFORMATION

Hazard symbols: Irritant.
Dangerous for the environment.



Risk phrases: R43: May cause sensitisation by skin contact.
R50: Very toxic to aquatic organisms.
R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases: S2: Keep out of the reach of children.
S24: Avoid contact with skin.
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.
S28: After contact with skin, wash immediately with plenty of water.

[cont...]

SAFETY DATA SHEET
BROOKS WOOD PRESERVER - BROWN

S60: This material and its container must be disposed of as hazardous waste.

S61: Avoid release to the environment. Refer to special instructions / safety data sheets.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Risk phrases used in s.2: R22: Harmful if swallowed.

R43: May cause sensitisation by skin contact.

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R20/22: Harmful by inhalation and if swallowed.

R36/37/38: Irritating to eyes, respiratory system and skin.

R36/38: Irritating to eyes and skin.

R38: Irritating to skin.

R41: Risk of serious damage to eyes.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

SAFETY DATA SHEET
BROOKS WOOD PRESERVER - GREEN

Page 1
Issued: 01/02/2007
Revision No: 1

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product name: BROOKS WOOD PRESERVER - GREEN
Product code: F 2030
Company name: Protim Abrasives Ltd
Tolka Industrial Park
Ballyboggan Road
Glasnevin, Dublin 11
Tel: +353 (01)8305966
Fax: +353 (01)8305126
Emergency tel: +353 (01)8611802

2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients: PROPICONAZOLE <5%
EINECS: 262-104-4 CAS: 60207-90-1
[Xn] R22; [Sens.] R43; [N] R50/53

- M-PHENOXYBENZYL
3-(2,2-DICHLOROVINYL)-2,2-DIMETHYLCYCLOPROPANECARBOXYLATE (PERMETHRIN) <5%
EINECS: 258-067-9 CAS: 52645-53-1
[Xn] R20/22; [Sens.] R43; [N] R50/53
- TERPENE ALCOHOLS <5%
[Xi] R36/37/38
- OXOALCOHOL <5%
CAS: 68-131-39-5
[Xi] R36/38; [Xn] R22
- SULPHOSUCCINATE <5%
[Xi] R38; [Xi] R41

3. HAZARDS IDENTIFICATION

Main hazards: May cause sensitisation by skin contact. Very toxic to aquatic organisms. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES (SYMPTOMS)

Skin contact: There may be irritation and redness at the site of contact.
Eye contact: There may be irritation and redness. The eyes may water profusely.
Ingestion: There may be soreness and redness of the mouth and throat.
Inhalation: Exposure may cause coughing or wheezing.

4. FIRST AID MEASURES (ACTION)

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water. Consult a doctor.

[cont...]

SAFETY DATA SHEET

BROOKS WOOD PRESERVER - GREEN

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Wash out mouth with water. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

Exposure hazards: In combustion emits toxic fumes.

Protection of fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid.

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

7. HANDLING AND STORAGE

Handling requirements: Avoid direct contact with the substance. Avoid the formation or spread of mists in the air.

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed.

Suitable packaging: Must only be kept in original packaging.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.

Hand protection: Impermeable gloves.

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Impermeable protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

State: Liquid

Colour: Green

Odour: Characteristic odour

Solubility in water: Miscible

Viscosity value: 23 seconds

Viscosity test method: Flow time in seconds in a 3 mm ISO cup (ISO 2431)

Flash point°C: n/a

Relative density: 0.95 - 1.05

pH: 8.4 - 9.0

[cont...]

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Conditions to avoid: Heat.

Materials to avoid: Strong oxidising agents. Strong acids.

Haz. decomp. products: In combustion emits toxic fumes.

11. TOXICOLOGICAL INFORMATION

Hazardous ingredients: PROPICONAZOLE

ORL MUS LD50 1490 mg/kg

ORL RAT LD50 1517 mg/kg

SKN RAT LD50 4000 mg/kg

- M-PHENOXYBENZYL

3-(2,2-DICHLOROVINYL)-2,2-DIMETHYLCYCLOPROPANECARBOXYLATE

ORL MUS LD50 424 mg/kg

ORL RAT LD50 383 mg/kg

SKN RAT LD50 1750 mg/kg

Chronic toxicity: May cause sensitisation by skin contact.

Routes of exposure: Refer to section 4 of SDS for routes of exposure and corresponding symptoms.

12. ECOLOGICAL INFORMATION

Hazardous ingredients: PROPICONAZOLE

DAPHNIA 48H EC50 4.8 mg/l

FISH BLUEGILLS 96H LC50 6.4 mg/l

FISH TROUT 96H LC50 5.3 mg/l

- TERPENE ALCOHOLS

FISH RAINBOW TROUT 96H LC50 71 mg/l

Mobility: Readily absorbed into soil.

Persistence and degradability: Biodegradable in part only.

Bioaccumulative potential: No data available.

Other adverse effects: Very toxic to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. TRANSPORT INFORMATION**ADR / RID**

UN no: 3082

ADR Class: 9

Packing group: III

Classification code: M6

[cont...]

SAFETY DATA SHEET
BROOKS WOOD PRESERVER - GREEN**Shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PROPICONAZOLE; PERMETHRIN)**Labelling:** 9**Hazard ID no:** 90**IMDG / IMO****UN no:** 3082**Class:** 9**Packing group:** III**EmS:** F-A,S-F**Marine pollutant:** .**Labelling:** 9**IATA / ICAO****UN no:** 3082**Class:** 9**Packing group:** III**Packing instructions:** 914**Labelling:** 9**15. REGULATORY INFORMATION****Hazard symbols:** Irritant.

Dangerous for the environment.

**Risk phrases:** R43: May cause sensitisation by skin contact.

R50: Very toxic to aquatic organisms.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases: S2: Keep out of the reach of children.

S24: Avoid contact with skin.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.

S28: After contact with skin, wash immediately with plenty of water.

S60: This material and its container must be disposed of as hazardous waste.

S61: Avoid release to the environment. Refer to special instructions / safety data sheets.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

[cont...]

SAFETY DATA SHEET
BROOKS WOOD PRESERVER - GREEN

16. OTHER INFORMATION

Risk phrases used in s.2: R22: Harmful if swallowed.

R43: May cause sensitisation by skin contact.

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R20/22: Harmful by inhalation and if swallowed.

R36/37/38: Irritating to eyes, respiratory system and skin.

R36/38: Irritating to eyes and skin.

R38: Irritating to skin.

R41: Risk of serious damage to eyes.

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Attachment H 1 – Raw Materials, Intermediates and Product Handling

Bund Testing

The bunds on the site were recently tested by an external body and the report generated is included as part of this application (**Attachment H 1A**).

Inspections for Leakages in Pipes and Tanks

All pipe and tanks are inspected monthly and a log is kept of the results of the inspections.

Storage and Transport of Materials

All raw materials and product are labelled with codes that allow them to be uniquely identified.

The materials used in manufacturing wood preservative on the site are stored in an indoor area that has been coated to enhance its impregnability.

Materials are transported from the storage to the production areas by means of forklifts manned by trained operators.

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Handling and Storage of Raw Materials

Code	Material/ Substance	Storage location	Storage condition (fridge, locked cabinet, etc.)	Segregation system	Methods of transport of materials within the site;	Details ... transported by pipe, vehicle or conveyor
-	Softened Water	Chemical store	Tank	No	Automated	Pump
SP 1001	Vilkyd 211 LA70	Chemical store	Metal drum	No	Manual	Forklift
SP 1002	Sandalkyd Fast Green 3 GLS (chlorinated phthalocyanine)	Chemical store	Metal drum	No	Manual	Forklift
SP 1003	Methyl Ethyl Ketoxime	Chemical store	Metal drum	No	Manual	Forklift
SP 1004	Wocosan Technical (Propiconazole)	Chemical store	Metal drum	No	Manual	Forklift
SP 1005	Permethrin	Chemical store	Metal drum	No	Manual	Forklift
SP 1006	Automate Brown Dye	Chemical store	Metal drum	No	Manual	Forklift
SP 1008	Odourless Kerosene	Bunded tank farm	Metal tank	No	Automated	Pump
SP 1010	Quadrilan AT / Berol 563 / Surfac ARF (Quaternary fatty amine ethoxylate)	Chemical store	Metal drum	No	Manual	Forklift
SP 1011	Pine Oil 90 (Mixed terpene alcohols and hydrocarbons)	Chemical store	Metal drum	No	Manual	Forklift
SP 1014	Dowanol DPM (Dipropylene glycol methyl ether)	Chemical store	Metal drum	No	Manual	Forklift
SP 1015	Troysan Polyphase P100 (3-Iodo-2-propynyl butyl carbamate)	Chemical store	Metal drum	No	Manual	Forklift
SP 1018	Imbentin C/91/080 OFA (Oxoalcohol C9/C11)	Chemical store	Metal drum	No	Manual	Forklift

SP 1021	Tebuconazole [(RS)-1-p-chlorophenyl-4,4-dimethyl-3-(1H-1,2,4-triazol-1-ylmethyl)3-pentanol]	Chemical store	Bag	No	Manual	Forklift
SP 1022	Linopopol KO (Lankropol KO)	Chemical store	Metal drum	No	Manual	Forklift
SP 1023	Linosa LPC (Ethylene oxide-propylene oxide copolymer)	Chemical store	[1]	No	Manual	Forklift
SP 1024	Linosa FAP 208 (Ethoxylated isotridecanol, 80%)	Chemical store	[1]	No	Manual	Forklift
SP 1025	Polybor (Disodium octoborate tetrahydrate)	Chemical store	Metal drum	Bag	Manual	Forklift
SP 1027	Tego Antifoam AS 10	Chemical store	Metal drum	No	Manual	Forklift
SP 1032	EFGA 5207 (Hydroxy functional unsaturated modified carboxylic acid)	Chemical store	Metal drum	No	Manual	Forklift
SP 1033	Empigen AB/E (C10-16 alkyldimethyl amine)	Chemical store	Metal drum	No	Manual	Forklift
SP 1034	Benzoic Acid	Chemical store	Metal drum	Bag	Manual	Forklift

[1] 1000-litre plastic container protected with metal cage.

Handling and Storage of Product

Code	Material/ Substance	Storage location	Storage condition (fridge, locked cabinet, etc.)	Segregation system	Methods of transport of materials within the site;	Details ... transported by pipe, vehicle or conveyor
F 1405/14	E 415	Bunded tank farm	Metal tank	No	Automated	Pump
F 1679/1	Wall Solution 250	Not applicable [1]	5- litre tin can	No	Manual	Wooden pallet with forklift
F 1764/4	Universal AQ 250	Not applicable [1]	5- litre tin can	No	Manual	Wooden pallet with forklift
F 1962	E 406	Bunded tank farm	Metal tank	No	Automated	Pump
F 1973	Protim Green	Chemical warehouse	[2]	No	Manual	Forklift
F 1973	Protim Green	Finished goods	1-, 2.5-, 5- and 25- litre tin cans	No	Manual	Wooden pallet with forklift
F 2000	Protim Universal	Chemical warehouse	[2]	No	Manual	Forklift
F 2000	Protim Universal	Finished goods	1-, 2.5-, 5- and 25- litre tin cans	No	Manual	Wooden pallet with forklift
F 2001	Protim Brown	Chemical warehouse	[2]	No	Manual	Forklift
F 2001	Protim Brown	Finished goods	1-, 2.5-, 5- and 25- litre tin cans	No	Manual	Wooden pallet with forklift
F 2029	Brooks Universal	Not applicable [1]	5- litre tin can	No	Manual	Wooden pallet with forklift
F 2030	Brooks Brown	Not applicable [1]	5- litre tin can	No	Manual	Wooden pallet with forklift
F 2031	Brooks Green	Not applicable [1]	5- litre tin can	No	Manual	Wooden pallet with forklift

[1] These products are made to order and are not stored.

[2] 1000-litre plastic container protected with metal cage.

BUND INTEGRITY ASSESSMENT
AT
BURGESS GALVIN LTD, JAMESTOWN
ROAD, FINGLAS, DUBLIN 11
IPPC LICENCE REG No. P0075-02

For the Attention of:

Mr. Tom Taylor
Burgess Galvin Ltd.
Jamestown Road
Finglas
Dublin 11

Prepared by:

Mr. Kenny Bucke
Environmental Consultant

Reviewed by:

Ms. Sarah Casey
Senior Environmental Consultant

Report No. ECS2770_B
Date: January 2008

CONTENTS

1.0 Executive Summary

2.0 Scope

3.0 Survey Methodology

3.1 Monitoring Requirements

3.2 Assessment Techniques

3.3 Reporting

4.0 Discussion

Appendix 1. Daily Log and Photographic Evidence

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1.0 Executive Summary

Bord na Móna was commissioned by Burgess Galvin Ltd. to carry out Bund Testing at their facility on Jamestown Road, Finglas, Dublin 11. Three concrete bunds were tested between the 26/11/07 and the 03/12/07. A second survey was performed between 08/01/08 and 15/01/08 on a fourth bund. Four concrete bunds were tested in total and numbered 1-4 inclusive. These bunds are located outdoors and are used to bund tanks associated with the production of cleaning materials.

The above bunds were tested for liquid tightness for seven days in accordance with B.S. 8007:1987 sections 9 (24 Hr Stabilisation period) and were found to be in **compliance** with the test.

Signed: _____

Kenny Bucke
Environmental Consultant

Sarah Casey
Senior Environmental Consultant

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2.0 Scope

Bord na Móna were contracted by Burgess Galvin Ltd. to carry out Bund testing at their facility in Finglas. The scope of the survey is limited to the following:

- a. Identification and Inspection of the bunded area.
- b. Test the bunded area for 'liquid tightness' as specified in section nine of B.S. 8007: 1987 as required for **seven** days.
- c. Reporting and interpretation of the assessment results.

3.0 Survey Methodology

3.1 Monitoring requirements

As part of the ongoing assessment of the bunded areas on site as required by the IPPC Licence Register No.P0075-02, these tests were performed to determine the integrity of the bunds. These bunds are displayed photographically in the appendix and are numbered as follows:

Bund I.D.

- A. Bund 1
- B. Bund 2
- C. Bund 3
- D. Bund 4

3.2 Assessment Techniques

The bunds were filled with clean mains water to the fill level, marked and allowed to stabilise for 24 hours.

After stabilisation, the level of the liquid surface was recorded by means of a photograph at 24-hour intervals for the test period of seven days.

3.3 Reporting

A Daily Log and photographic evidence for the bunded areas are reported in Appendix 1.

4.0 Discussion

The criteria used for testing of bunds, tanks and sumps are as follows:

1. A bund containing one vessel should have a nominal capacity of 110 % of the vessel's maximum capacity.
2. A bund containing more than one vessel should have a nominal capacity of 110% of the largest vessel or 25% of the total capacity of all the vessels, whichever is the greater.
3. Sumps, built with double skins (i.e. an inner and outer layer) should have no water in between the two layers.

The bunded areas, as detailed in previous sections, were allowed stabilise for 24 hours and tested. During this 7-day test period the total permissible dip in level (allowing for evaporation) should not exceed 1/500th of the average water depth of the full bund in all cases.

APPENDIX 1

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BUND TESTING REPORT

CLIENT: Burgess Galvin Ltd.

BUND LOCATION: Bund 1

SURVEY DATES: 26/11/07 – 03/12/07

PERSONNEL: Kenny Bucke (Bord na Móna)
Tom Taylor (Burgess Galvin)

DAILY LOG

DATE		EVAPORATION /24hr	PHOTO I.D.	PERSONNEL
26/11/07	Fill	+/- 1mm		BG Ltd.
27/11/07	Test	+/- 1mm	Yes	K.B
28/11/07	Test	+/- 1mm	No	
29/11/07	Test	+/- 1mm	No	
30/11/07	Test	+/- 1mm	No	
01/12/07	Test	+/- 1mm	No	
02/12/07	Test	+/- 1mm	No	
03/12/07	Test	+/- 1mm	Yes	K.B.

COMMENTS

This bund (Bund 1) was tested for Seven days in accordance to B.S. 8007: 1987 (Design of concrete structures for the retaining aqueous liquids: Section Nine - inspection and testing of the structure).

Conformance to B.S. 8007: 1987 Section 9 (24 Hr Stabilising Period)

Compliant



Photo ID: Bund 1



Photo ID: Bund 1 (Day 1)



Photo ID: Bund 1 (Day 7)

BUND TESTING REPORT

CLIENT: Burgess Galvin Ltd.

BUND LOCATION: Bund 2

SURVEY DATES: 26/11/07 – 03/12/07

PERSONNEL: Kenny Bucke (Bord na Móna)
Tom Taylor (Burgess Galvin)

DAILY LOG

DATE		EVAPORATION /24hr	PHOTO I.D.	PERSONNEL
26/11/07	Fill	+/- 1mm		BG Ltd.
27/11/07	Test	+/- 1mm	Yes	K.B
28/11/07	Test	+/- 1mm	No	
29/11/07	Test	+/- 1mm	No	
30/11/07	Test	+/- 1mm	No	
01/12/07	Test	+/- 1mm	No	
02/12/07	Test	+/- 1mm	No	
03/12/07	Test	+/- 1mm	Yes	K.B.

COMMENTS

This bund (Bund 2) was tested for Seven days in accordance to B.S. 8007: 1987 (Design of concrete structures for the retaining aqueous liquids: Section Nine - inspection and testing of the structure).

Conformance to B.S. 8007: 1987 Section 9 (24 Hr Stabilising Period)

Compliant



Photo ID: Bund 2



Photo ID: Bund 2 (Day 1)

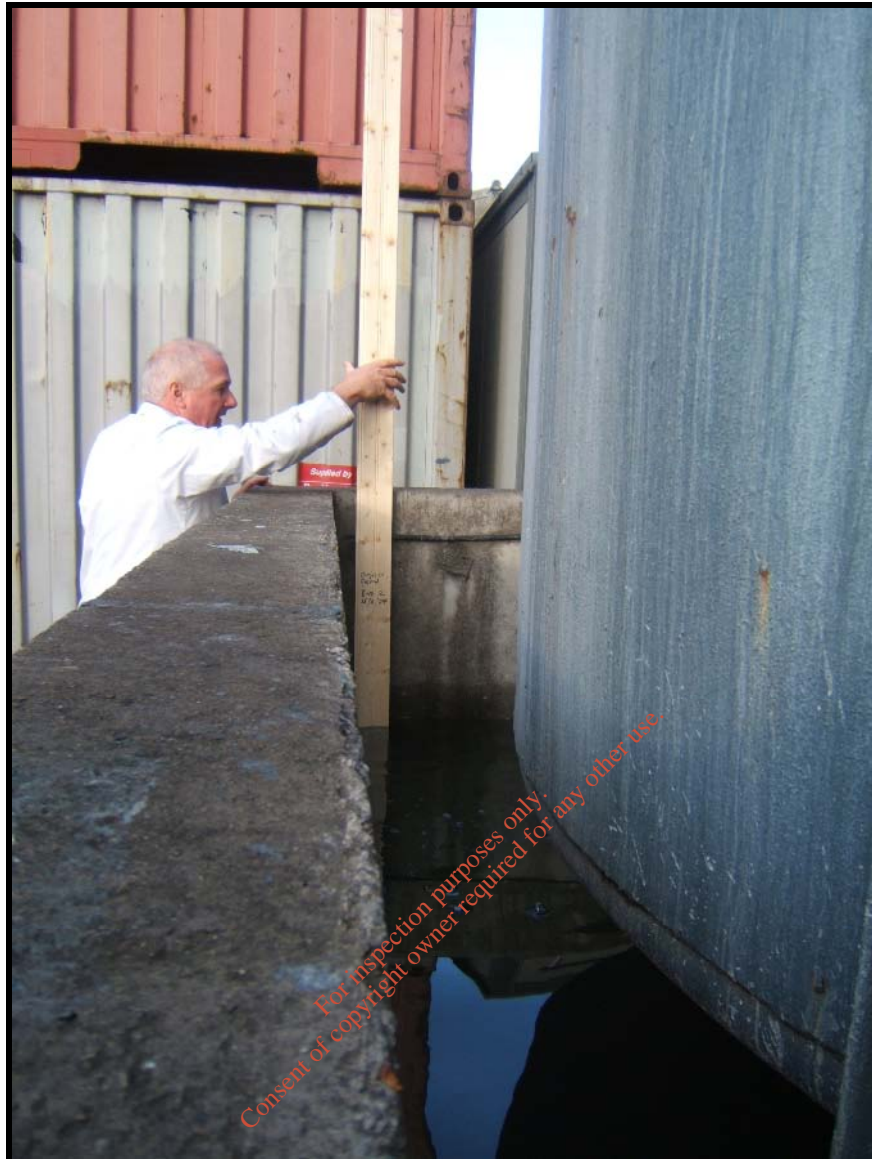


Photo ID: Bund 2 (Day 7)

BUND TESTING REPORT

CLIENT: Burgess Galvin Ltd.

BUND LOCATION: Bund 3

SURVEY DATES: 26/11/07 – 03/12/07

PERSONNEL: Kenny Bucke (Bord na Móna)
Tom Taylor (Burgess Galvin)

DAILY LOG

DATE		EVAPORATION /24hr	PHOTO I.D.	PERSONNEL
26/11/07	Fill	+/- 1mm		BG Ltd.
27/11/07	Test	+/- 1mm	Yes	K.B
28/11/07	Test	+/- 1mm	No	
29/11/07	Test	+/- 1mm	No	
30/11/07	Test	+/- 1mm	No	
01/12/07	Test	+/- 1mm	No	
02/12/07	Test	+/- 1mm	No	
03/12/07	Test	+/- 1mm	Yes	K.B.

COMMENTS

This bund (Bund 3) was tested for Seven days in accordance to B.S. 8007: 1987 (Design of concrete structures for the retaining aqueous liquids: Section Nine - inspection and testing of the structure).

Conformance to B.S. 8007: 1987 Section 9 (24 Hr Stabilising Period)

Compliant



Photo ID: Bund 3



Photo ID: Bund 3 (Day 1)



Photo ID: Bund 3 (Day 7)

BUND TESTING REPORT

CLIENT: Burgess Galvin Ltd.

BUND LOCATION: Bund 4

SURVEY DATES: 08/01/08 – 15/01/08

PERSONNEL: Kenny Bucke (Bord na Móna)
Tom Taylor (Burgess Galvin)

DAILY LOG

DATE		EVAPORATION /24hr	PHOTO I.D.	PERSONNEL
08/01/08	Fill	+/- 1mm		BG Ltd.
09/01/08	Test	+/- 1mm	Yes	K.B
10/01/08	Test	+/- 1mm	No	
11/01/08	Test	+/- 1mm	No	
12/01/08	Test	+/- 1mm	No	
13/01/08	Test	+/- 1mm	No	
14/01/08	Test	+/- 1mm	No	
15/01/08	Test	+/- 1mm	Yes	K.B.

COMMENTS

This bund (Bund 4) was tested for Seven days in accordance to B.S. 8007: 1987 (Design of concrete structures for the retaining aqueous liquids: Section Nine - inspection and testing of the structure).

Conformance to B.S. 8007: 1987 Section 9 (24 Hr Stabilising Period)

Compliant



Photo ID: Bund 4



Photo ID: Bund 4 (Day 1)

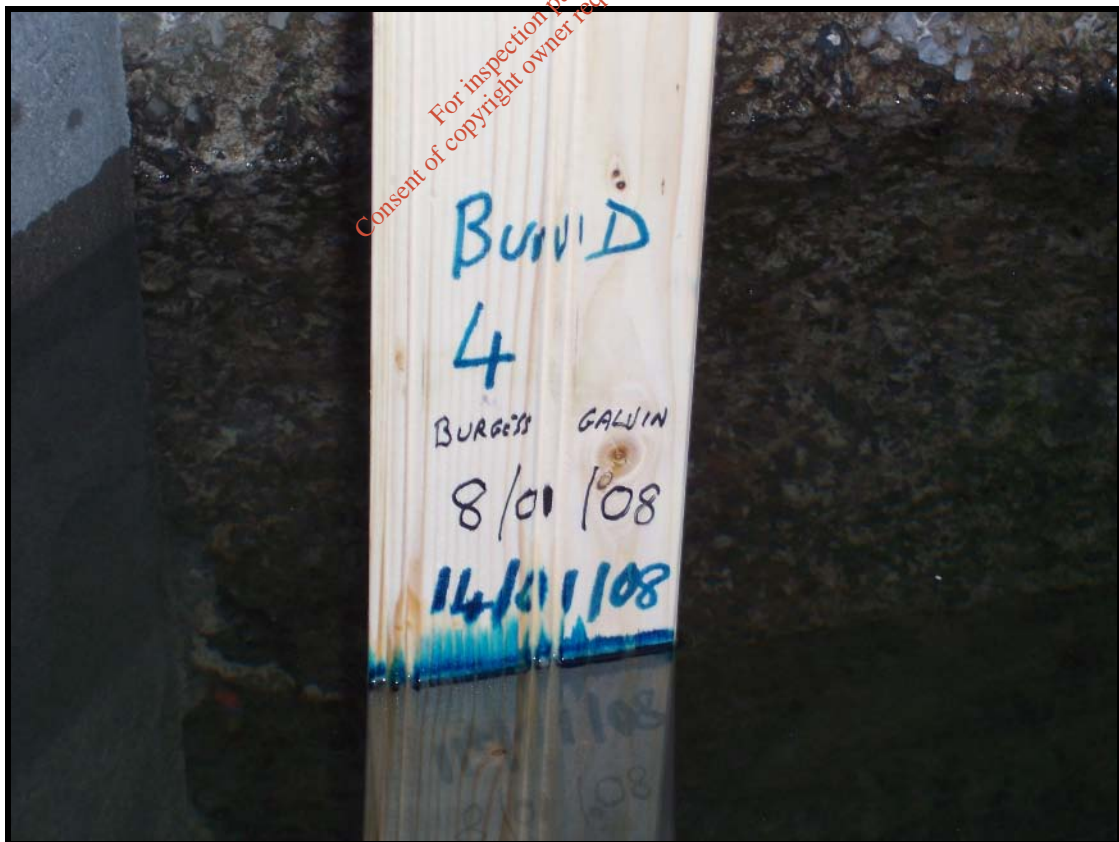


Photo ID: Bund 4 (Day 7)

Attachment H 2 – Recovery / Disposal of Solid and Liquid Wastes

The disposal of solid and liquid wastes associated with the manufacture and packing of adhesives and detergents at this site is regulated by the conditions imposed by the current IPPC license (Reg. No. P0075-2).

The manufacture of wood preservative at this site does not result in the generation of waste raw materials or product of a 'chemical' nature. Effluent, associated with the manufacture of detergent and adhesives, is generated. Waste associated with packaging is also generated.

Handling of Waste Packaging Material

Steel Drums, which had contained non-hazardous material, are washed and then collected on a monthly basis by Aidan C. Lacey for recycling. The permit held by Aidan C. Lacey Recycling allowing the company to transport used steel drums is included as part of this application as **Attachment H 2A**.

Mixed packaging, consisting mainly of plastic wrapping, is collected by Greyhound Waste, who recycle it. The license held by Greyhound Waste allowing the company to collect and recycle waste is included as part of this application as **Attachment H 2B**.

Waste cardboard from the site is collected by Panda Waste Services and recycled by Irish Packaging Recycling. The corresponding permits are included as part of this application (**Attachments H 2E and H 2F**, respectively).

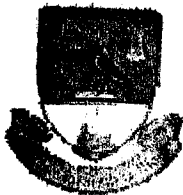
Handling of Effluent

Effluent on the site flows to a settlement tank, where the insoluble solids are deposited to form a semi-solid, while the supernatant liquid transfers to an overflow tank.

The level of effluent in the overflow tank is checked daily. It is discharged (to a sewer controlled by Dublin City Council) every 1 – 2 days only if the pH and temperature are within the limits required by the current IPPC license; otherwise adjustments are made. The license held by Burgess Galvin & Co. Ltd. that allows it to dispose of effluent to the sewer is included as part of this application as **Attachment H 2C**.

The settlement tank takes several years to reach its capacity and is cleared several months before full capacity is reached. In January of 2008 the effluent from the holding tank was removed by Boyne Waste Services and disposed by Kildare County Council. The permit held by Boyne Waste Services to remove and transport waste is included as part of this application as **Attachment H 2D**.

The documentation issued by Kildare County Council upon receipt of the 'sludge' from the site is included as part of this application as **Attachment B 6A**.



Schedule Conditions

Waste Management (Collection Permit) Regulations, 2001

WASTE COLLECTION PERMIT

Permit Register Reference Number CP D417/3

Dublin City Council being a nominated authority under Section 34(1)(a)(a) of the Waste Management Acts, 1996 and 2001, has granted a waste collection permit to **Aidan Lacey T/A Aidan C. Lacey Recycling** hereinafter called the permit holder, of **Clonard Road, Ballbriggan, Co. Dublin** subject to the attached schedule of conditions.

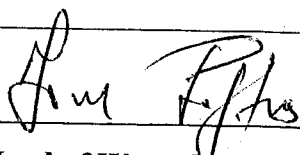
The permit holder is authorised by this permit to collect the waste types outlined in Condition 1.2 in the following local authority areas only:

Dublin City Council
Dun Laoghaire-Rathdown County Council
Fingal County Council
South Dublin County Council

The permit holder shall only use vehicles in the following registration numbers for the purpose of waste collection as set out in the permit:

94 D 48512

The permit holder shall only transfer waste to the facilities outlined in condition 2.2 of this permit.


Head of Waste Management Services

Dated this 30th day of January 2004

Headquarters
P.O. Box 3000
Johnstown Castle Estate
County Wexford
Ireland

WASTE LICENCE

Licence Register Number:	W0205-01
Licensee:	Greyhound Recycling and Recovery Limited
Location of Facility:	Crag Avenue, Clondalkin Industrial Estate, Clondalkin, County Dublin.

HEADQUARTERS
JOHNSTOWN CASTLE ESTATE
COUNTY WEXFORD, IRELAND
PHONE: +353-53-9160600
FAX: +353-53-9160699

WASTE MANAGEMENT ACTS, 1996 TO 2005

WASTE LICENCE

Decision of the Agency, under Section 40(1) of the Waste Management Acts, 1996 to 2005

Waste Licence Register No: **W0205-01**

Further to notice dated the 12th day of January, 2007, the Agency in exercise of the powers conferred on it by the Waste Management Acts, 1996 to 2005, for the reasons hereinafter set out in the attached Decision, grants this waste licence to Greyhound Recycling & Recovery Limited, Knockmitten Lane, Western Industrial Estate, Dublin 12, to carry on the waste activities set out below at Greyhound Recycling & Recovery Limited, Crag Avenue, Clondalkin Industrial Estate, Clondalkin, Co Dublin subject to twelve Conditions, as set out in the schedules attached thereto.

A copy of the Decision is attached.

Licensed Waste Activities

*Licensed Waste Disposal Activities, in accordance with the Third Schedule
of the Waste Management Acts 1996 to 2005*

Class 11.	Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule.
Class 12.	Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule.
Class 13.	Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced.

*Licensed Waste Recovery Activities, in accordance with the Fourth Schedule
of the Waste Management Acts 1996 to 2005*

Class 2.	Recycling or reclamation of organic substances, which are not used as solvents (including composting and other biological processes).
Class 3.	Recycling or reclamation of metals and metal compounds.
Class 4.	Recycling or reclamation of other inorganic materials.

Class 8.	Oil re-refining or other re-uses of oil.
Class 11.	Use of waste obtained from any activity referred to in a preceding paragraph of this Schedule.
Class 12.	Exchange of waste for submission to any activity referred to in a preceding paragraph of this Schedule.
Class 13.	Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced.

The carrying on of the following activities is refused:

Refused waste recovery activity, in accordance with the Fourth Schedule of the Waste Management Acts 1996 to 2005

Class 9.	Use of any waste principally as a fuel or other means to generate energy.
----------	---

Sealed by the seal of the Agency on this the 28th day of May 2006

PRESENT when the seal of the Agency was affixed hereto:

Dr Padraic Larkin,

Director

T96,154



Dublin Corporation Bárdas Átha Cliath

LOCAL GOVERNMENT (WATER POLLUTION) ACT, 1977

LICENCE TO DISCHARGE TRADE EFFLUENT OR OTHER
MATTER TO A SEWER

SANITARY AUTHORITY: DUBLIN CORPORATION

REGISTER REFERENCE: LDS 14 - 89

ORDER NO.

M.D.D. REFERENCE: SSS 65 - 79

To: Burgess, Galvin & Co. Ltd.,
Jamestown Road,
Finglas,
Dublin 11.

Dublin Corporation, in exercise of the powers conferred on it by the Local Government (Water Pollution) Act, 1977, hereby grants, subject to the conditions stated overleaf, a revised licence in substitution for the licence dated 20.7.1984, Reference No. LDS 11 - 84, to discharge trade effluent from the undermentioned premises to the sewer detailed below.

Premises: Burgess, Galvin & Co. Ltd.

Location of Factory/Works Etc.: Jamestown Road, Finglas, Dublin 11.

Sewer Location/Description of the Receiving Foul Sewer: Foul Sewer in Jamestown Road/Oakwood Road junction.

Subject to the Conditions stated overleaf.

Dated this 13th day of June 1988


Act. ASSISTANT CITY & COUNTY MANAGER

ORDER NO. _____

REGISTER REFERENCE

LDS 14 - 89

CONDITIONS FOR THE DISCHARGE OF TRADE EFFLUENT

GENERAL

1. The trade effluent discharged shall be of the same nature and composition as described and conditioned in this licence.
2. No substance shall be present in the effluent in such concentration as would constitute a danger to personnel working in the sewer or to the sewer fabric or would interfere with the operation of downstream wastewater treatment works.
3. The Licensee shall monitor the discharge of trade effluent to ensure that the conditions of this licence are complied with.
4. Representative samples of the trade effluent shall be taken by the Licensee and tested for the chemical characteristics conditioned in this licence. The frequency of sampling shall be as necessary but shall not be less than four times a year. The costs of all such tests shall be borne by the Licensee.
5. The Licensee shall keep records in such form as required, of the volume, rate of discharge, nature and composition of the trade effluent discharged into the sewer and these shall be available at all reasonable times for inspection by duly authorised persons. Copies of such records shall be sent to Dublin Corporation on demand.
6. Where settling or treatment tanks are mandatory, a record or log-book of cleaning, maintenance and performance of each settling tank shall be kept and made available for inspection at all times by officials of Dublin Corporation.
7. In the event of an accidental discharge, spillage or deposit of any polluting matter which enters or is likely to enter any waters or a sewer, the person responsible shall notify Dublin Corporation, as soon as practicable after the occurrence (Section 14, Local Government (Water Pollution) Act, 1977).
8. The Licensee shall provide and maintain an inspection chamber or manhole in a suitable position in connection with each pipe through which the trade effluent is being discharged. Each such inspection chamber or manhole shall be so constructed and maintained by the Licensee as to permit the taking of samples of the discharge.
9. The Licensee shall permit authorised persons to inspect, examine and test at all reasonable times, any works and apparatus installed in connection with the trade effluent and to take samples of the trade effluent.

Dated this 29th day of May 19 89

NA. Jomamy
Deputy Chief Engineer
Engineering Services

CONDITIONS FOR THE DISCHARGE OF TRADE EFFLUENT

GENERAL (Continued)

10. On premises where exterior storage tanks of fuel and/or chemicals are situated; the following shall apply.

The tanks shall be contained within a bund structure. The bund shall be impermeable and shall have a capacity equivalent to 110% of the volume of the largest tank in the bund. The intake and outlet valves of the tanks shall be located inside the bund. The bund shall not be connected directly to any drain.

VOLUMETRIC

1. Maximum discharge per day shall not exceed 25.0 m³
2. Maximum discharge per hour shall not exceed 5.0 m³
3. The Licensee shall install and maintain a flow measuring device which shall record the instantaneous rate of discharge and the total volume of trade effluent discharged.

Dated this 29th day of May 19 89

NA. Iomany

Deputy Chief Engineer
Engineering Services

ORDER NO. _____

REGISTER REFERENCE _____

LDS 14 - 89

CONDITIONS FOR THE DISCHARGE OF TRADE EFFLUENT

CHEMICAL

1. The temperature of the trade effluent shall not exceed 42°C.
2. The pH shall lie in the range 6.0 to 10.0.
3. Over any 24 hour period, the mean concentration of biochemical oxygen demand (B O D) in the trade effluent shall not exceed 500 mg/l. The total quantity of biochemical oxygen demand discharged in this period shall not exceed 12.5 kg.
4. Over any 24 hour period, the mean concentration of chemical oxygen demand (C O D) in the trade effluent shall not exceed 1000 mg/l. The total quantity of chemical oxygen demand discharged in this period shall not exceed 25 kg.
5. Over any 24 hour period, the mean concentration of suspended solids in the trade effluent shall not exceed 500 mg/l. The total quantity of suspended solids discharged in this period shall not exceed 12.5 kg.

Dated this 29th day of May 19 89

NA. Iamany
Deputy Chief Engineer
Engineering Services

CONDITIONS FOR THE DISCHARGE OF TRADE EFFLUENT**CHEMICAL**

6. The concentration of extractable oils, grease and fats in the trade effluent shall not exceed 200 mg/l. The total quantity of extractable oils, grease and fats discharged per day shall not exceed 5 kg.
7. The concentration of detergents as Methylene Blue Active Substances (M B A S) shall not exceed 100 mg/l. The total quantity of detergents discharged per day shall not exceed 2.5 kg.
8. The concentration of sulphates (as SO_4) in the trade effluent shall not exceed 600 mg/l and the total quantity of sulphates (as SO_4) discharged per day shall not exceed 15 kg.
9. The concentration of phosphates (as PO_4) in the trade effluent shall not exceed 100 mg/l and the total quantity of phosphates (as PO_4) discharged per day shall not exceed 2.5 kg.
10. The effluent discharge shall not contain petroleum spirits or organic solvents and shall not give rise to flammable or explosive vapours in the sewer.
11. The effluent shall be screened prior to discharge to the sewer to remove gross solids which may give rise to blockage in the sewer.

Dated this 29th day of May 19 89

Nh. Jomany
Deputy Chief Engineer
Engineering Services

ORDER NO. _____

REGISTER REFERENCE _____

LDS 14 - 89

CONDITIONS FOR THE DISCHARGE OF TRADE EFFLUENT

CHARGES

In compliance with the Local Government (Water Pollution) Act, 1977, Section 16: 4(b) and Section 19: 2 (e), the following charges are levied:-

1- The Licensee shall pay to Dublin Corporation 5.49 p per cubic metre of effluent discharged such sum as may be determined from time to time by the Corporation, having regard to variations in the cost of providing drainage.

2. The Licensee shall pay an annual charge to Dublin Corporation towards the cost of monitoring the trade effluent. At present the fee is IR£ 250.00 per annum and will be revised from time to time by Dublin Corporation.

For inspection purposes only.
Consent of copyright owner required for any other use.

Dated this 29th day of May 19 89

WA. Jomany

Deputy Chief Engineer
Engineering Services.

Enquiries in connection with this licence should be made to:

Principal Officer,
Engineering Department,
Civic Offices,
Fishamble Street,
Dublin 8.

Present when the Corporate Seal
of the Corporation was affixed here to.
The Right Honourable THE LORD MAYOR
also being present.



City Hall, Dublin
Corporation Official




CITY MANAGER & TOWN CLERK

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Consent of copyright owner required for any other use.



WASTE MANAGEMENT ACT 1996
and
WASTE MANAGEMENT (COLLECTION PERMIT) REGULATIONS 2001

Waste Collection Permit Register Number: WCP/KE/356C/05B

Applicant:

Boyne Waste Services Limited,
Rathdrinagh,
Beauparc,
Co. Meath.

In pursuance of the powers conferred on it by the Waste Management Act 1996 - 2005 and the Waste Management (Collection Permit) Regulations 2001, Kildare County Council hereby notifies you that a waste collection permit has been granted to you to collect

Waste types as specified in application form only

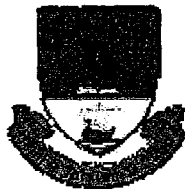
in the functional area of Kildare County Council subject to the conditions as set out in the collection permit.


Ken Kavanagh
Senior Executive Officer

27/3/2006
Date of Issue

NOTE

The permit holder may appeal the decision to grant this permit, in accordance with Section 34(9)(a) of the Waste Management Act, 1996, to the Judge of the Naas District Court, being the District Court in which the principal office of Kildare County Council is situated, within one month of notice.



Schedule of Conditions

Waste Management (Collection Permit) Regulations, 2001

WASTE COLLECTION PERMIT

Permit Register Reference Number CP D3/1

Dublin City Council being a nominated authority under Section 34(1)(a)(a) of the Waste Management Act, 1996 (as amended), has granted a waste collection permit to **Nurendale Ltd. T/A Panda Waste Services** hereinafter called the permit holder, of **Rathdrinagh, Beauparc, Co. Meath**, subject to the attached schedule of conditions.

The permit holder is authorised by this permit to collect **hazardous and non-hazardous industrial, commercial and household wastes, construction and demolition waste, and soil and stones** (outlined in condition 1.2 of this permit) in the following local authority areas only:

Dublin City Council
Fingal County Council

South Dublin County Council
Dun Laoghaire/Rathdown County Council

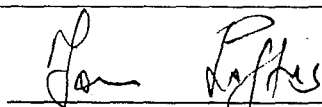
The permit holder shall only use vehicles with the following registration number for the purpose of waste collection as set out in this permit:

97 MH 3425
96 MH 5104
98 MH 427
00 MH 4650
95 MH 3487
99 MH 480
01 MH 2111

99 MH 758
00 MH 551
01 MH 350
99 MH 988
97 MH 4294
97 MH 5694
98 KK 2732

01 MH 526
01 MH 731
00 MH 553
01 D 15250
98 MH 832
00 MH 872

The permit holder shall only transfer waste to the facilities outlined in condition 2.2 of this permit.



Head of Waste Management Services

Dated this 13th day of December 2002

INTERPRETATION

Act	The Waste Management Act, 1996 (No.10 of 1996), as amended.
Activity	A waste collection activity for the purposes of section 34(1)(a) of the Act.
Agency	The Environmental Protection Agency (EPA) established under Section 19 of the Environmental Agency Act, 1992 (No. 7 of 1992).
Collection	As defined in Section 5(1) of the Act.
Construction and Demolition Waste	All waste that arises from construction, renovation and demolition activities, including all wastes mentioned in Chapter 17 of the European Waste Catalogue.
Disposal	As defined in Section 4(3) of the Act.
Environmental Pollution	As defined in Section 5(1) of the Act.
European Waste Catalogue (EWC)	As defined in Section 5(1) of the Act.
Further Information	Information and particulars received pursuant to a notice under Article 9(1) of the Waste Management (Collection Permit) Regulations, 2001 (S.I. No. 402 of 2001).
Hazardous Waste	As defined in Section 4(2) of the Act.
Maintain	Keep in a fit state including such regular inspection, servicing and repair as may be necessary to adequately perform its function.
Mechanically Propelled Vehicle	A vehicle intended or adapted for propulsion by mechanical means.
Permit	A waste collection permit issued in accordance with the Waste Management (Collection Permit) Regulations, 2001 (S.I. No. 402 of 2001).
Recovery	As defined in Section 4(4) of the Act.
Skip	A container used for the storage or removal of builder's materials, rubble, waste, rubbish or other materials and which is designed to be propelled by a mechanically propelled vehicle.
Treatment	As defined in Section 5(1) of the Act.
Waste	As defined in Section 4(1) of the Act.
Waste Licence	A licence for the purpose of Section 39(1) of the Act.
Waste Permit	A waste permit issued in accordance with the Waste Management (Permit) Regulations, 1998 (S.I. No. 165 of 1998).

Conditions

1. Scope of Permit

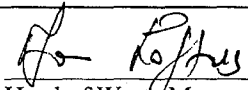
- 1.1 The permit holder may collect wastes specified in condition 1.2 in the following local authority areas:

Dublin City Council
Fingal County Council
South Dublin County Council
Dun Laoghaire/Rathdown County Council

- 1.2 The permit holder may collect the following waste types only:

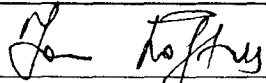
EWG Code	Waste Description
02	WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING & FISHING, FOOD PREPARATION & PROCESSING
02 01	Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing
02 01 03 ✓	Plant-tissue waste
02 01 04 ✓	Waste plastics (except packaging)
02 01 10 ✓	Waste metal
02 03	Wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea and tobacco preparation and processing; conserve production; yeast and yeast extract production, molasses preparation and fermentation
02 03 01	Sludges from washing, cleaning, peeling, centrifuging & separation
02 03 04	Materials unsuitable for consumption or processing
02 03 05	Sludges from on-site effluent treatment
03	WASTES FROM WOOD PROCESSING & THE PRODUCTION OF PANELS & FURNITURE, PULP, PAPER & CARDBOARD
03 01	Wastes from wood processing and the production of panels and furniture
03 01 01	Waste bark & cork
03 01 05	Sawdust, shavings, cuttings, wood, particle board & veneer other than those mentioned in 03 01 04
04	WASTES FROM THE LEATHER, FUR & TEXTILE INDUSTRIES
04 02	Wastes from the textile industry
04 02 22	Wastes from processed textile fibres

3/15

 Head of Waste Management Services	13/12/02 Dated
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07	WASTES FROM ORGANIC CHEMICAL PROCESSES
07 07	Wastes from the MFSU of fine chemicals and chemical products not otherwise specified
07 07 12	Sludges from on-site effluent treatment other than those mentioned in 07 07 11
13	OIL WASTES & WASTES OF LIQUID FUELS (except edible oils, & those in chapters 05, 12 and 19)
13 05	Oil/water separator contents
13 05 01	Solids from grit chambers and oil/water separators
13 05 02	Sludges from oil/water separators
13 03 03	Interceptor sludges
13 05 08	Mixtures of wastes from grit chambers & oil/water separators
15	WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS & PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
15 01	Packaging (including separately collected municipal packaging waste)
15 01 01	Paper & cardboard packaging
15 01 02	Plastic packaging
15 01 03	Wooden packaging
15 01 04	Metallic packaging
15 01 05	Composite packaging
15 01 06	Mixed packaging
15 01 07	Glass packaging
15 01 09	Textile packaging
15 02	Absorbents, filter materials, wiping cloths and protective clothing
15 02 03	Absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02
16	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 01	End-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08)
16 01 03	End-of-life tyres
16 01 16	Tanks for liquefied gas
16 01 17	Ferrous metal
16 01 18	Non-ferrous metal
16 01 19	Plastic
16 01 20	Glass
16 03	Off-specification batches and unused products
16 03 06	Organic wastes other than those mentioned in 16 03 05
16 05	Gases in pressure containers and discarded chemicals
16 05 05	Gases in pressure containers other than those mentioned in 16 05 04

16.06	Batteries and accumulators
16 06 01	Lead batteries
16 06 04	Alkaline batteries (except 16 06 03)
17	CONSTRUCTION & DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)
17 01	Concrete, bricks, tiles and ceramics
17 01 01	Concrete
17 01 02	Bricks
17 01 03	Tiles & ceramics
17 01 07	Mixture of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06
17 02	Wood, glass and plastic
17 02 01	Wood
17 02 02	Glass
17 02 03	Plastic
17 03	Bituminous mixtures, coal tar and tarred products
17 03 02	Bituminous mixtures containing other than those mentioned in 17 03 01
17 04	Metals (including their alloys)
17 04 01	Copper, bronze, brass
17 04 02	Aluminium
17 04 03	Lead
17 04 04	Zinc
17 04 05	Iron & steel
17 04 06	Tin
17 04 07	Mixed metals
17 04 11	Cables other than those mentioned in 17 04 10
17 05	Soil (including excavated soil from contaminated sites), stones and dredging spoil
17 05 03	Soil & stones containing dangerous substances
17 05 04	Soil & stones other than those mentioned in 17 05 03
17 06	Insulation materials and asbestos-containing construction materials
17 06 04	Insulation materials other than those mentioned in 17 06 01 & 17 06 03
17 08	Gypsum-based construction material
17 08 02	Gypsum-based construction materials other than those mentioned in 17 08 01

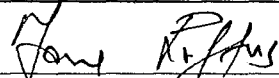
 Head of Waste Management Services	13/12/02 Dated
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18	WASTES FROM HUMAN OR ANIMAL HEALTH CARE &/OR RELATED RESEARCH (except kitchen & restaurant wastes not arising from immediate health care)
18 01	Wastes from natal care, diagnosis, treatment or prevention of disease in humans
18 01 04	Wastes whose collection and disposal is not subject to special requirements in order to prevent infection (for example dressings, plaster casts, linen, disposable clothing, diapers)
18 02	Wastes from research, diagnosis, treatment or prevention of disease involving animals
18 02 03	Wastes whose collection and disposal is not subject to special requirements in order to prevent infection
19	WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS & THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION & WATER FOR INDUSTRIAL USE
19 07	Landfill leachate
19 07 03	Landfill leachate other than those mentioned in 19 07 02
19 08	Wastes from waste water treatment plants not otherwise specified
19 08 01	Screenings
19 08 05	Sludge from treatment of urban waste water
19 08 12	Sludges from biological treatment of industrial waste water other than those mentioned in 19 08 11
19 09	Wastes from the preparation of water intended for human consumption or water for industrial use
19 09 02	Sludges from water clarification
19 12	Wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 07	Wood other than that mentioned in 19 12 06
20	MUNICIPAL WASTES (HOUSEHOLD WASTE & SIMILAR COMMERCIAL, INDUSTRIAL & INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 01	Separately collected fractions (except 15 01)
20 01 01	Paper and cardboard
20 01 02	Glass
20 01 08	Biodegradable kitchen and canteen waste
20 01 10	Clothes
20 01 11	Textiles
20 01 25	Edible oil and fat
20 01 33	Batteries & accumulators included in 16 06 01, 16 06 02 or 16 06 03 and unsorted batteries and accumulators containing these batteries

20 01 34	Batteries and accumulators other than those mentioned in 20 01 33
20 01 36	Discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 & 20 01 35
20 01 38	Wood other than that mentioned in 20 01 37
20 01 39	Plastics
20 01 40	Metals
20 01 41	Wastes from chimney sweeping
20 02	Garden and park wastes (including cemetery waste)
20 02 01	Biodegradable waste
20 02 02	Soil and stones
20 02 03	Other non-biodegradable wastes
20 03	Other municipal wastes
20 03 01	Mixed municipal waste
20 03 02	Waste from markets
20 03 03	Street-cleaning residues
20 03 04	Septic tank sludge

- 1.3 The conditions of this permit are based upon the information provided by the applicant during the application process. The permit holder shall notify Dublin City Council in writing of any proposed changes in the information furnished and shall obtain written agreement from Dublin City Council prior to these changes occurring.
- 1.4 Dublin City Council may at any time review, and subsequently amend the conditions of, or revoke this permit. Dublin City Council shall review this permit at least once in each period of two years after the date on which the permit was granted or reviewed, as the case may be.
- 1.5 This waste collection permit and any condition imposed therein shall not relieve the permit holder of his/her statutory obligations under any other enactment whatsoever.
- 1.6 This permit is non-transferable.

7/15

 Head of Waste Management Services	13/12/02 Dated
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2. Management of the Waste Collection Activity

2.1 The permit holder shall ensure that where waste collected under this permit is transferred to a facility for the purpose of a recovery or activity in respect of which section 39(1) of the Waste Management Act, 1996 applies:

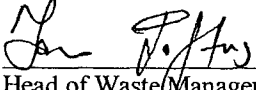
- (i) there is in force a waste licence or a waste permit in relation to the carrying on of the activity concerned at that facility, or
- (ii) an application for such licence or permit has been made to and is under consideration by, the Agency or relevant local authority and the activity may also be carried on pending a decision in relation to the said application.

2.2 The permit holder shall transport waste to the following licensed/permitted facilities outlined in the application for waste collection permit CP D3/1 and *no other facilities whatsoever*:

- (i) **SITA Environmental Limited**, Upper Sheriff Street, Dublin 1
Environmental Protection Agency Waste Licence Register Number: **35-1**
- (ii) **Atlas Oil Laboratories Ltd.**, Clonminam Industrial Estate, Portlaoise, Co. Laois
IPC Licence Number: **472**
Laois County Council Waste Permit Register Number: **WO/1**
- (iii) / **Returnbatt Limited**, Unit 35, Kildare Enterprise Centre, Melitta Road, Kildare
Environmental Protection Agency Waste Licence Register Number: **105-1**
- (iv) / **Fingal Recycling**, Unit 5, Feltrim Industrial Park, Swords, Co. Dublin
Dublin City Council Waste Permit Register Number: **WPT 04**
- (v) / Fingal County Council, **Balleally Landfill**, Balleally, Lusk, Co. Dublin
Environmental Protection Agency Waste Licence Register Number: **9-1**
- (vi) / **KTK Landfill Limited**, Brownstown and Carnalway, Kilcullen, Co. Kildare
Environmental Protection Agency Waste Licence Register Number: **81-2**
- (vii) / Louth County Council, **Whiteriver Landfill Site**, Whiteriver & Gunstown Townland, Dunleer, Co. Louth
Environmental Protection Agency Waste Licence Register Number: **60-1**
- (viii) / **Finsa Forest Products Limited**, Scariff, Co. Clare
IPC Licence Number: **22**
- (ix) / Central Waste Paper Co. Ltd., **Smurfit Recycling**, Lower Ballymount Road, Walkinstown, Dublin 12
South Dublin County Council Waste Permit Register Number: **WPR 021**

- (x) **Organic Gold Marketing Limited**, Wilkinstown, Navan, Co. Meath
Meath County Council Waste Permit Register Number: **WMP 2000/17**
- (xi) **Dublin City Council Main Lift Pumping Station**, Pigeon House Road,
Ringsend, Dublin 4
- (xii) **John Tinnelly & Sons Limited**, Newtowncloughogue, Newry, Co. Down,
BT35 8LZ
Waste Permit Register Number: **NI 00011**
- (xiii) **Clonmagaddan Sewage Works**, Boyne Road, Navan, Co. Meath
- (xiv) **Leixlip Waste Water Treatment Plant**, St. Catherine's Park, Leixlip, Co.
Kildare
- (xv) **Nurendale Ltd., Panda Waste Services**, Rathdrinagh, Beauparc, Co. Meath
Environmental Protection Agency Waste Licence Register Number: **140-1**
- (xvi) **Padraig Thornton Waste Disposal Ltd., Thorntons Recycling Centre**, Killeen
Road, Ballyfermot, Dublin 10
Environmental Protection Agency Waste Licence Register Number: **44-1**
- (xvii) **Midland Waste Disposal Limited**, Clonmagaddan, Proudstown, Navan, Co.
Meath
Environmental Protection Agency Waste Licence Register Number: **131-1**
- (xviii) **John Mangan**, Ballymadun, Co. Meath
Dublin City Council Waste Permit Register Number: **WMP 6A**
- (xix) **Clearway**, 41 Dobbin Road, Portadown, Co. Armagh BT62 4EY
Craigavon Borough Council Waste Permit Reference Number: **984 510**
- (xx) **Esker Composting Facility**, Esker Lane, Lucan, Co. Dublin
Environmental Protection Agency Waste Recovery Certificate: **R261**
- (xxi) **Nagtrac 2000 Ltd.**, Donegal Road, Gibbstown, Navan, Co. Meath
Meath County Council Waste Permit Register Number: **WMP 2000/41**
- (xxii) **SCL Onyx Ltd.**, Wastex House, 121 Camlough Rd, Bessbrook, Newry BT35 7JR
Newry Mourne Waste Permit Register Number: **NMWDL 10**
- (xxiii) **Spanboard Products Ltd.**, 10 Curragh Road, Coleraine BT51 3RY
Coleraine Borough Council Waste Permit Register Number: **IPC/Timber/03/01**
- (xxiv) **Waste Beater**, Unit 89, Blackstaff Road, Kennedy Way Industrial Estate, Belfast
BT11 9DT
Belfast City Council Waste Permit Register Number: **46**

9/15


Head of Waste Management Services

13/12/02
Dated

- 2.3 The permit holder shall carry or shall cause to be carried a copy of this permit at all times on each vehicle which is used for the purposes of the activity to which this permit relates.
- 2.4 The permit holder shall not move hazardous waste within the state unless such movement is fully in compliance with the requirements of the Waste Management (Movement of Hazardous Waste) Regulations, 1998.
- 2.5 The permit holder shall not export waste from the State unless such export is fully in compliance with the requirements of Council Regulation (EEC) No. 259/93 of 1 February, 1993 on the supervision and control of shipments of waste within, into and out of the European Community.
- 2.6 The permit holder shall be familiar with the requirements placed on holders of household or commercial waste arising from any bye-laws made under section 35 of the Waste Management Act, 1996 by the local authorities in whose area the collection activity is being carried out, and shall keep a copy of all such bye-laws at the address of the principal place of business.
- 2.7 Where bye-laws referred to in condition 2.6 have been made by one or more of the relevant local authorities, the permit holder shall not collect waste from holders unless it has been presented in accordance with the requirements of the bye-laws in force in a particular local authority area.
This includes the following:
- a) Dublin City Council Bye-laws for the Collection, Storage and Presentation of Commercial Waste and Certain Related Waste Management Matters.
 - b) Dublin City Council Bye-laws for Collection, Storage and Presentation of Household Waste and Certain Related Management Matters.
- 2.8 The permit holder shall identify all hazards associated with the wastes being collected, and shall be familiar with best practices regarding its safe movement and handling and shall adopt all necessary, reasonable and practicable safety measures accordingly.
- 2.9 The permit holder shall ensure that all operatives employed in the waste collection activity are familiar with the conditions of the permit.
- 2.10 The permit holder shall submit an “**Emergency Response Procedure**” to Dublin City Council within three months of the date of grant of this permit. This shall include provisions for any emergency situation which may arise. This procedure shall include details of an emergency response unit, replacement vehicles and clean up equipment that may be necessary to minimise the effects of any emergency on the environment.

2.11 Atmospheric Emissions

- 2.11.1 All consignments of waste being transported by skips lorries trucks and tippers to be covered during transit.
- 2.11.2 All vehicles used for transporting waste to be washed down on a weekly basis or more frequently if the vehicle is subject to gross soiling.
- 2.11.3 All dry/dusty wastes to be dampened down prior to transit.
- 2.11.4 All organic wastes including food to be transported in airtight containers.
- 2.11.5 All other practicable precautions shall be taken to prevent nuisance.

2.12 Noise Emissions

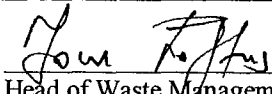
- 2.12.1 The rated noise from the operation of waste transit processes (defined as LAeq 1 hour) shall not exceed the background noise level (as defined in B.S. 4142. Method for rating industrial noise affecting mixed residential and industrial areas.) by 10 dB or more.
- 2.12.2 Noise levels should not be so loud, so continuous, so repeated, of such duration or pitch or occurring at such times as to give reasonable cause for annoyance to a person in any premises in the neighbourhood or to a person lawfully using any public place.

2.13 Any spillage of waste which occurs in the course of the collection operation, shall be cleaned up immediately and at the latest within an hour of the spillage occurring.

2.14 The permit holder is required to have a docket system of recording waste permit holder shall develop a docket system for recording waste collection. The individually numbered collection dockets shall as a minimum contain the following details:

- a) Date of waste collection;
- b) Origin of the waste collected;
- c) Shall be signed by the producer of the waste, or his representative (except in the case of bag or wheeled bin domestic waste collection);
- d) Description of the waste collected (including EWC code for commercial, industrial or hazardous waste);
- e) Destination of the waste collected;
- f) Shall be signed by the receiver of the waste;
- g) The docket shall be available for inspection in the vehicle until control of the waste has been handed over to the operator of the permitted or licensed facility. After that time, the dockets shall be retained at the principal office of the waste collector for a period of three years.

11/15

 Head of Waste Management Services	13/12/02 Dated
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3. Vehicles, Skips and Receptacles

- 3.1 All vehicles used by the permit holder for the collection and transportation of waste shall be fit for the purpose and maintained in accordance with the manufacturers recommendations.
- 3.2 All vehicles shall have the name and contact telephone number(s) of the permit holder clearly displayed on the outside in letters a minimum of 75 mm tall.
- 3.3 Each skip/tanker/container which is used for the purposes of the activity to which the permit relates shall be marked on at least two sides with the following information in clearly legible indelible lettering at least 125 millimetres high:
- a) name of the permit holder
 - b) address of principal place of business,
 - c) telephone number
 - d) where provided for in bye-laws made under Section 72 of the Roads Act, 1993, the licence number of the skip operator
- 3.4 Each skip/tanker/container if not permanently coupled to the collection vehicle, which is used for the purposes of the activity to which this permit relates and which is to be placed or left on the public road shall:
- a) have permanently attached horizontal markings of a type clearly visible to road users which are at least 150 millimetres high and extend along the full length of all sides, approximately halfway between the top and bottom of the skip/tanker/container.
 - b) not be painted in any colour likely to decrease visibility at night.
- 3.5 If skips are used for the purpose of the activity to which the activity relates the permit holder shall provide in written agreement with the hirer,
- (i) that no skip shall be loaded higher than a point 1 metre above its upper edge.
 - (ii) that no skip is used for the disposal of hazardous waste.
 - (iii) that each skip will be removed within 24 hours of it being fully loaded.

4. Notification and Record Keeping

- 4.1 The permit holder shall notify Dublin City Council in relation to any conviction for an offence prescribed under article 19 of the Waste Management (Collection Permit) Regulations, 2001 or any requirement of an order under sections 57 or 58 of the Waste Management Act, 1996, within fourteen days of such a conviction or the imposition of such a requirement.

- 4.2 The permit holder shall notify the relevant local authority (i.e. the authority in whose area the incident occurs) immediately after the occurrence of any incident connected with the waste collection activity which caused or has the potential to cause environmental pollution or a threat to human health. The permit holder shall include as part of the notification the date and time of the incident, details of the occurrence, and steps taken to avoid recurrence. A written record of the incident will be sent to Dublin City Council.
- 4.3 The permit holder shall, not later than 28th February in each year furnish to Dublin City Council an Annual Environmental Report (AER) in respect of waste collection activities carried out by the permit holder in the preceding calendar year. This shall contain the following information and is to be provided in electronic format (Microsoft Excel or in a format which can be readily imported into this application):
- a) Summary of records maintained under condition 2.14 of the permit. This shall include the following information:
 - (i) The quantity of waste collected (tonnes, or litres in the case of liquids)
 - (ii) The quantity of waste collected in each local authority area (tonnes or litres, where applicable)
 - (iii) Composition of waste collected (use relevant EWC code(s))
 - (iv) Details of commercial/ industrial waste producers from whom waste was collected
 - (v) The quantity of waste sent to each disposal facility, to each recovery facility and directly exported for recovery or disposal and its destination (tonnes or litres, where applicable)
 - b) Details of any waste, its composition and quantity rejected by any facility and the alternative route for the waste.
 - c) The reference number of the Waste Licence/Permit or the Waste Licence/Permit Application, the postal address, the location, and ownership details of the facilities to which waste was submitted for recovery/disposal.
 - d) Summary of the number of skips/receptacles/tankers used by the permit holder and the volume of each.
 - e) Proposals for changes in collection systems (pay by weight, segregated collection etc.) which shall be introduced in order to increase the volume of waste going for recycling/recovery.
 - f) Any incidents that have occurred in relation to the activities to which this permit relates, any complaints received by the permit holder and details of how these were addressed.
 - g) Details of insurance policies held
 - h) Summary of charges
 - i) Information on any offence (prescribed under Article 19 of the Waste Management (Collection Permit) Regulations, 2001), the nature of the offence and any penalty or requirement imposed by the court.
 - j) Information in relation to the terms of any requirement imposed on the applicant by order of a court under Sections 57 or 58 of the Act.

- 4.4 The permit holder shall, not later than 28th February in each year furnish to Dublin City Council an Annual Environmental Report (AER) in respect of waste collection activities carried out by the permit holder in the preceding calendar year. The content of the Annual Environmental Report is specified in condition 4.3. The AER is to be provided in electronic format (Microsoft Excel or in a format which can be readily imported into this application).
- 4.5 The permit holder shall not compile information that is false or misleading, and will maintain the records in accordance with condition 4.3 on a continuous basis where appropriate. These records shall be kept at the address of the principal place of business for at least three years.
- 4.6 The records maintained by the permit holder in accordance with condition 4.3 and condition 2.14 shall be made available for inspection by an authorised person of any of the relevant local authorities at the address of the principal place of business during normal office hours.
- 4.7 In cases where the permit holder directly charges fees to householders for the provision of waste collection facilities, the permit holder must notify Dublin City Council in advance of any proposal to increase the level of fees charged.

5. Charges and Financial Provisions

- 5.1 Costs incurred by Dublin City Council, and any of the local authorities listed in condition 1.1, in the ongoing monitoring of compliance with this collection permit including the costs of inspections, investigations and analyses of waste samples will be recouped periodically. Notice shall be given in writing and an invoice for the amount being charged shall be issued to the permit holder.
- 5.2 The permit holder shall effect and maintain a policy of insurance insuring him or her as respects any liability on his or her part to pay any damages or costs on account of injury to person or property arising from the activities concerned. All insurance policies shall be extended to indemnify all local authority areas in which the permit holder collects as listed in condition 1.1 and Dublin City Council.
- 5.3 The permit holder shall submit copies of the insurance policies held under section 5.2 above to Dublin City Council as part of the Annual Environmental Report.

6. Conditions Specific to the Waste Stream

HAZARDOUS WASTE

- 6.1 The permit holder shall only deliver hazardous waste to facilities that have an appropriate licence/permit to accept such hazardous waste for disposal or recovery.
- 6.2 The permit holder shall, within two months from the date of grant of this permit, submit a written consent from each facility to which it is proposed to deliver hazardous waste, confirming that the facility will accept waste from the permit holder.
- 6.3 The permit holder shall have a list in each of their collection vehicles of acceptable and unacceptable hazardous wastes at the facilities outlined in condition 2.2. This shall include a back-up plan in the event that a hazardous waste load is refused.
- 6.4 All receptacles used for the collection of hazardous waste should be clearly identified as containing hazardous waste in addition to the normal labelling requirements under relevant legislation.

CONSTRUCTION AND DEMOLITION WASTE, SOIL AND STONES

- 6.5 Where possible, and in accordance with condition 2.1 of this permit, builders rubble shall be segregated and submitted for recovery to an authorised recovery facility.
- 6.6 Soil containing hydrocarbons shall not be collected by the permit holder.

For inspection purposes only.
Consent of copyright owner required for any other use.



Dublin City Council
Comhairle Cathrach Bhaile Átha Cliath
Waste Management Services, Engineering Department,
68-71 Marrowbone Lane, Dublin 8

Seirbhís Bainistíochta Dramhaíola, Roinn Innealtóireachta,
68-71 Lána Mhuire Mhaith, Baile Átha Cliath 8
T. 01 222 4411 F. 01 454 4830 E.edel.stephens@dublincity.ie

Nurendale Ltd.
T/A Panda Waste Services
Rathdrinagh
Beauparc
Navan

Our Ref: CP D3/1

07 March 2006

Waste Collection Permit No. CP D3/1

Re: Notification submitted of proposed changes relating to:

Facilities:

Waste types:

Vehicles: Add: 06 MH 1008

Dear Sir or Madam,

I acknowledge receipt of your correspondence, which was received in this office on the 2nd March 2006 in the matter indicated above and note the contents therein.

I wish to inform you that Dublin City Council has no objection to the proposals outlined, provided that the waste collection activities are carried out in accordance with the conditions attached to your Waste Collection Permit. On this basis we will proceed to update our statutory Register.

You are advised to retain a copy of all correspondence in relation to this matter on the vehicle or vehicles used for waste collection activities.

Yours sincerely,

Edel Stephens
Assistant Staff Officer



Dublin City Council
Comhairle Cathrach Bhaile Átha Cliath
Waste Management Services, Engineering Department,
68-71 Marrowbone Lane, Dublin 8

Seirbhísí Bainistíochta Dramhaíola, Roinn Innealtóireachta,
68-71 Lána Mhuire Mhaith, Baile Átha Cliath 8
T. 01 222 4411 F. 01 454 4830 E.edel.stephens@dublincity.ie

Nurendale Ltd.,
T/A Panda Waste Services,
Rathdrinagh,
Beauparc
Navan

Our Ref: CP D3/1

27 February 2006

Waste Collection Permit No. CP D3/1

Re: Notification submitted of proposed changes relating to:

Facilities:

Waste types:

Vehicles: Add: 06 MH 1009, 06 MH 1175


Dear Sir or Madam,

I acknowledge receipt of your correspondence, which was received in this office on the 27TH February 2006 in the matter indicated above and note the contents therein.

I wish to inform you that Dublin City Council has no objection to the proposals outlined, provided that the waste collection activities are carried out in accordance with the conditions attached to your Waste Collection Permit. On this basis we will proceed to update our statutory Register.

You are advised to retain a copy of all correspondence in relation to this matter on the vehicle or vehicles used for waste collection activities.

Yours sincerely,


Edel Stephens
Assistant Staff Officer

RECEIVED
- 2 MAR 2006



Dublin City Council
Waste Management Services, Engineering Department, An Ché Adhmaid, Baile Átha Cliath
68-71 Marrowbone Lane, Dublin 8

Seirbhisí Bainistíochta Dramhaíola, Roinn Innealtóireachta,
68-71 Lána Mhuire Mhaith, Baile Átha Cliath 8
T. 01 222 4312 F. 01 454 4830 E.fiona.o'brien@dublincity.ie

Nurendale Ltd.
T/A Panda Waste Services
Rathdrinagh
Beauparc
Navan
Co. Meath

Our Ref.: FO'B/CP D3/1

05th December 2005

Waste Collection Permit No. CP D3/1

Re: Notification submitted of proposed changes relating to:

Facilities:

Waste types:

Vehicles: Add: 05 MH 7251

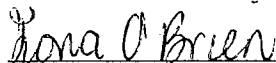
Dear Sir or Madam,

I acknowledge receipt of your correspondence, which was received in this office on the 28th November 2005 in the matter indicated above and note the contents therein.

I wish to inform you that Dublin City Council has no objection to the proposals outlined, provided that the waste collection activities are carried out in accordance with the conditions attached to your Waste Collection Permit. On this basis we will proceed to update our statutory Register.

You are advised to retain a copy of all correspondence in relation to this matter on the vehicle or vehicles used for waste collection activities.

Yours sincerely,


Fiona O'Brien
Staff Officer



Dublin City Council
Comhairle Cathrach Bhaile Átha Cliath

Waste Management Services, ENGINEERING DEPARTMENT,
68-71 Marrowbone Lane, Dublin 8

Seirbhísí Bainistíochta Dramhaíola, Roinn Innealtóireachta,
68-71 Lána Mhuire Mhaith, Baile Átha Cliath 8
T. 01 222 4312 F. 01 454 4830 E. wasteinfo@dublincity.ie

Nurendale Ltd.
T/A Panda Waste Services
Rathdrinagh,
Beauparc
Navan
Co. Meath

07th September 2005

Waste Collection Permit No. CP D3/1

Re: Notification submitted of proposed changes relating to:

Facilities:

Waste Types:

Vehicle Use: ADD: 05 MH 7151 05 MH 7517

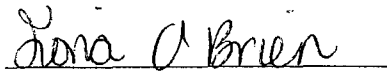
Dear Sir or Madam,

I acknowledge receipt of your letter, which was received in this office on the 01st September 2005 in the matter indicated above and note the contents therein.

I wish to inform you that Dublin City Council has no objection to the proposals outlined, provided that the waste collection activities are carried out in accordance with the conditions attached to your Permit. On this basis we will proceed to update our statutory Register.

You are advised to retain a copy of all correspondence in relation to this matter on the vehicle or vehicles used for waste collection activities.

Yours sincerely,


Fiona O'Brien
Staff Officer

RECEIVED
65 SEP 2005



Dublin City Council
Waste Management Services, **ENGINEERING DEPARTMENT**,
68-71 Marrowbone Lane, Dublin 8

Seirbhisí Bainistíochta Dramhaíola, Roinn Innealtóireachta,
68-71 Lána Mhuire Mhaith, Baile Átha Cliath 8
T. 01 222 4312 F. 01 454 4830 E. wasteinfo@dublincity.ie

Panda Waste Services Ltd,
Beauparc Business Park,
Navan,
Co. Meath

RECEIVED

05 AUG 2005

25 July 2005

Waste Collection Permit No. CP D3/1

Re. Notification submitted of proposed changes relating to:

Facilities:

Waste Type:

Vehicle Use: Add: 04 MH 7448, Remove: 05 MH 7448.

Dear Sir or Madam,

I acknowledge receipt of your letter dated **22 July 2005** in the matter indicated above and note the contents therein.

I wish to inform you that Dublin City Council has no objection to the proposals outlined, provided that the waste collection activities are carried out in accordance with the conditions attached to your Permit. On this basis we will proceed to update our statutory Register.

You are advised to retain a copy of all correspondence in relation to this matter on the vehicle or vehicles used for waste collection activities.

Yours faithfully

Vincent Gleeson.



Dublin City Council
Waste Management Services, **ENGINEERING DEPARTMENT**
68-71 Marrowbone Lane, Dublin 8

Seirbhisí Bainistíochta Dramhaíola, Roinn Innealtóireachta,
68-71 Lána Mhuire Mhaith, Baile Átha Cliath 8
T. 01 222 4312 F. 01 454 4830 E. wasteinfo@dublincity.ie

Nurendale Ltd.t/a,
Panda Waste Services,
Rathdrinagh,
Beauparc,
Navan
Co. Meath

18 July 2005

Waste Collection Permit No. CP D3/1

Re. Notification submitted of proposed changes relating to:

Facilities:

Waste Types:

Vehicle Use: Add: 05 MH 6008 & 05 MH 6312

Dear Sir or Madam,

I acknowledge receipt of your letter dated **18 July 2005** in the matter indicated above and note the contents therein.

I wish to inform you that Dublin City Council has no objection to the proposals outlined, provided that the waste collection activities are carried out in accordance with the conditions attached to your Permit. On this basis we will proceed to update our statutory Register.

You are advised to retain a copy of all correspondence in relation to this matter on the vehicle or vehicles used for waste collection activities.

Yours faithfully

P P Benny Gleeson
Vincent Gleeson.

RECEIVED
26 JUL 2005



Dublin City Council
Waste Management Services, **ENGINEERING DEPARTMENT**
68-71 Marrowbone Lane, Dublin 8

Seirbhisí Bainistíochta Dramhaíola, Roinn Innealtóireachta,
68-71 Lána Mhuire Mhaith, Baile Atha Cliath 8
T. 01 222 4312 F. 01 454 4830 E. wasteinfo@dublincity.ie

Nurendale Ltd.
t/a Panda Waste Services,
Rathdrinagh,
Beauparc,
Navan,
Co. Meath.

21 July 2005

Waste Collection Permit No. CP D3/1

Re. Notification submitted of proposed changes relating to:

Facilities:

Waste Type:

Vehicle Use: Add: 04 MH 6793

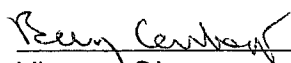
Dear Sir or Madam,

I acknowledge receipt of your letter dated **19 July 2005** in the matter indicated above and note the contents therein.

I wish to inform you that Dublin City Council has no objection to the proposals outlined, provided that the waste collection activities are carried out in accordance with the conditions attached to your Permit. On this basis we will proceed to update our statutory Register.

You are advised to retain a copy of all correspondence in relation to this matter on the vehicle or vehicles used for waste collection activities.

Yours faithfully

VP 
Vincent Gleeson.

RECEIVED
26 JUL 2005



Dublin City Council
Waste Management Services, ENGINEERING DEPARTMENT,
68-71 Marrowbone Lane, Dublin 8

Seirbhisí Bainistíochta Dramhaíola, Roinn Innealtóireachta,
68-71 Lána Mhuire Mhaith, Baile Átha Cliath 8
T. 01 222 4312 F. 01 454 4830 E. wasteinfo@dublincity.ie

Nurendale Ltd.
t/a Panda Waste Services,
Rathdrinagh,
Beauparc,
Navan,
Co. Meath

RECEIVED
16 JUL 2005

8 July 2005

Waste Collection Permit No. CP D3/1

Re. Notification submitted of proposed changes relating to:

Facilities:

Waste Types:

Vehicle Use: Add: 05 MH 1521, 05 MH 7448 & 04 MH 7260.

Dear Sir or Madam,

I acknowledge receipt of your letter dated 4 July 2005 in the matter indicated above and note the contents therein.

I wish to inform you that Dublin City Council has no objection to the proposals outlined, provided that the waste collection activities are carried out in accordance with the conditions attached to your Permit. On this basis we will proceed to update our statutory Register.

You are advised to retain a copy of all correspondence in relation to this matter on the vehicle or vehicles used for waste collection activities.

Yours faithfully

Vincent Gleeson.



Dublin City Council
Waste Management Services, **ENGINEERING DEPARTMENT**,
68-71 Marrowbone Lane, Dublin 8

Seirbhisí Bainistíochta Dramhaíola, Roinn Innealtóireachta,
68-71 Lána Mhuire Mhaith, Baile Átha Cliath 8
T. 01 411 4312 F. 01 454 4830 E. wasteinfo@dublincity.ie

Nurendale Ltd.t/a
Panda Waste Services,
Rathdrinagh,
Beauparc,
Navan,
Co. Meath.

28 June 2005

Waste Collection Permit No. CP D3/1

Re. Notification submitted of proposed changes relating to:

Change Of Address:

Waste Types:

Vehicle Use: Add: 05 MH 517.

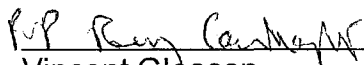
Dear Sir or Madam,

I acknowledge receipt of your letters dated 20 June 2005 in the matter indicated above and note the contents therein.

I wish to inform you that Dublin City Council has no objection to the proposals outlined, provided that the waste collection activities are carried out in accordance with the conditions attached to your Permit. On this basis we will proceed to update our statutory Register.

You are advised to retain a copy of all correspondence in relation to this matter on the vehicle or vehicles used for waste collection activities.

Yours faithfully


Vincent Gleeson.



Dublin City Council

Comhairle Cathrach Bhaile Átha Cliath

Waste Management Services, **ENGINEERING DEPARTMENT**,
68-71 Marrowbone Lane, Dublin 8

Seirbhisí Bainistíochta Dramhaíola, Roinn Innealtóireachta,
68-71 Lána Mhuire Mhaith, Baile Átha Cliath 8
T. 01 222 4300 F. 01 454 4830 E. wasteinfo@dublincity.ie

Nurendale Ltd.t/a
Panda Waste Services,
Rathdrinagh,
Beauparc,
Navan,
Co. Meath.

14 June, 2005

Waste Collection Permit No CP D3/1

Re. Notification submitted of proposed changes relating to:

Facilities:

Vehicle Use: Add: 05 MH 5104, 05 MH 1521 & 05 MH 2879.

Waste Types:

Dear Sir or Madam,

I acknowledge receipt of your letters dated, **14 June 2005** in the matter indicated above and note the contents therein.

I wish to inform you that Dublin City Council has no objection to the proposals outlined, provided that the waste collection activities are carried out in accordance with the conditions attached to your Permit. On this basis we will proceed to update our statutory Register.

You are advised to retain a copy of all correspondence in relation to this matter on the vehicle or vehicles used for waste collection activities.

Yours faithfully


Vincent Gleeson.

RECEIVED

17 JUN 2005



Dublin City Council

Comhairle Cathrach Bhaile Átha Cliath

Waste Management Services, ENGINEERING DEPARTMENT,

68-71 Marrowbone Lane, Dublin 8

Seirbhísí Bainistíochta Dramhaíola, Roinn Innealtóireachta,
68-71 Lána Mhuire Mhaith, Baile Átha Cliath 8
T. 01 222 4312 F. 01 454 4830 E. wasteinfo@dublincity.ie

Nurendale Ltd.
t/a Panda Waste Services,,
Beauparc Business Park,
Navan,
Co. Meath.

25 January 2005

Waste Collection Permit No. CP D3/1

Re. Notification submitted of proposed changes relating to:

Facilities:

Waste Types:

Vehicle Use:

**Add: 05 MH 1264, 05 MH 1251 & 05 MH 444.
Delete: 05 D 444.**

Dear Sir or Madam,

I acknowledge receipt of your letter dated **20 January 2005** in the matter indicated above and note the contents therein.

I wish to inform you that Dublin City Council has no objection to the proposals outlined, provided that the waste collection activities are carried out in accordance with the conditions attached to your Permit. On this basis we will proceed to update our statutory Register.

You are advised to retain a copy of all correspondence in relation to this matter on the vehicle or vehicles used for waste collection activities.

Yours faithfully

Vincent Gleeson.



Waste Management Services, ENGINEERING DEPARTMENT,
68-71 Marrowbone Lane, Dublin 8

Seirbhísí Bainistíochta Dramhaíola, Roinn Innealtóireachta,
68-71 Lána Mhuire Mhaith, Baile Átha Cliath 8
T. 01 222 4312 F. 01 454 4830 E. wasteinfo@dublincity.ie

Panda Waste Services,
Beauparc Business Park,
Navan,
Co. Meath.

20 January 2005

Waste Collection Permit No. CP D3/1

Re. Notification submitted of proposed changes relating to:

Facilities:

Waste Types:

Vehicle Use: Add 05 MH 201.

Dear Sir or Madam,

I acknowledge receipt of your letter dated **17 January 2005** in the matter indicated above and note the contents therein.

I wish to inform you that Dublin City Council has no objection to the proposals outlined, provided that the waste collection activities are carried out in accordance with the conditions attached to your Permit. On this basis we will proceed to update our statutory Register.

You are advised to retain a copy of all correspondence in relation to this matter on the vehicle or vehicles used for waste collection activities.

Yours faithfully


Vincent Gleeson



Waste Management Services, ENGINEERING DEPARTMENT,
68-71 Marrowbone Lane, Dublin 8

Seirbhísí Bainistíochta Dramhaíola, Roinn Innealtóireachta,
68-71 Lána Mhuire Mhaith, Baile Átha Cliath 8
T. 01 411 4312 F. 01 454 4830 E. wasteinfo@dublincity.ie

RECEIVED 18 JUN 2004

Panda Waste Services ,
Beauparc Business Park,
Navan,
Co. Meath.

96 MH 5104
97 MH 3625

18 June, 2004

Waste Collection Permit No. CP D3/1

Re. Notification submitted of proposed changes relating to:

Facility Use:

Waste Types:

Vehicle Use: Add: 00 MH 731, 98 MH 832, 97 MH 5694, 00 MH 551,
02 MH 6873, 03 MH 103, 00 MH 4650, 97 MH 4294,
99 MH 988, 01 MH 350, 98 KK 2732, 02 MH 5437,
00 MH 553, 99 MH 480, 01 D 82873, 02 MH 3486,
00 MH 872, 98 KK 2732, 04 MH 3618, 04 MH 1465,
04 MH 5101, 04 MH 5185, 04 MH 5104.

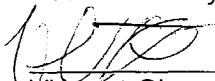
Dear Sir or Madam,

I acknowledge receipt of your letters dated, **11 June, 2004** in the matter indicated above and note the contents therein.

I wish to inform you that Dublin City Council has no objection to the proposals outlined, provided that the waste collection activities are carried out in accordance with the conditions attached to your Permit. On this basis we will proceed to update our statutory Register.

You are advised to retain a copy of all correspondence in relation to this matter on the vehicle or vehicles used for waste collection activities.

Yours faithfully



Vincent Gleeson.

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SOUTH DUBLIN COUNTY COUNCIL



ENVIRONMENTAL SERVICES DEPARTMENT

**Waste Management Act, 1996 to 2007
Waste Management (Permit) Regulations, 1998**

WASTE PERMIT

Waste Permit Register Number: WPR 021/2

Applicant: Irish Packaging Recycling Ltd.
T/A Panda Waste Services Ltd.

Address: Rathdrinagh
Beauparc
Navan
Co. Meath

Location of Facility: Ballymount Road
Walkinstown
Dublin 12

Activity: Sorting, Separating, Baling, Storage,
Shipping of Recovered Paper,
Plastic and Wood Packaging.

Valid: 1st September 2007 to 31st
August 2010

ACTIVITIES PERMITTED

In pursuance of the powers conferred on it by the Waste Management Acts, 1996 to 2007 and the Waste Management (Permit) Regulations, 1998, South Dublin County Council grants this waste permit under Article 5 of the said Regulations to Irish Packaging Recycling Ltd., T/A Panda Waste Services Ltd., to carry on the waste activities listed below at Lower Ballymount Road, Walkinstown, Dublin 12. The permit is issued subject to conditions, with the reasons therefore set out in the permit.

Permitted Waste Recovery Activity, in accordance with the First Schedule
of the Waste Management (Permit) Regulations, 1998:

Activity 5: *The recovery of waste (other than hazardous waste) at a facility (other than a facility for the composting of waste where the amount of compost and waste held at the facility exceeds 1000 cubic meters at any time)*

Permitted Waste Activities, in accordance with the Fourth Schedule
of the Waste Management Act, 1996 to 2007

Activity 4: *Recycling or reclamation of other inorganic materials.*

Activity 13: *Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced.*

NOTE:

GRANTING OF THIS PERMIT, AND ANY CONDITION IMPOSED BY IT, DOES NOT EXEMPT THE HOLDER OF THE PERMIT FROM COMPLYING WITH THE STATUTORY OBLIGATIONS OF ANY RELEVANT LEGISLATION, INCLUDING WATER POLLUTION, AIR POLLUTION, NOISE EMISSIONS, WASTE, LITTER, PLANNING, AND OCCUPATIONAL HEALTH LEGISLATION.

CONDITION 1: SCOPE

- 1.1 This waste permit is issued under the Waste Management (Permit) Regulations, 1998, to Irish Packaging Recycling Ltd., T/A Panda Waste Services Ltd in respect for a waste management permit for **Sorting, Separation, baling, Storage, Shipping of Recovered Paper, Plastic and Wood Packaging** and will be non-transferrable. The permit holder shall be responsible for the operation of the waste facility in strict accordance with the permit conditions.
- 1.2 This waste permit is/shall be valid for three years from **01st September 2007 to 31st August 2010** save when South Dublin County Council at its sole discretion revokes the permit. South Dublin County Council may, at any time, review the permit at its discretion.
- 1.3 The waste activities shall be confined to the area outlined in the site plan submitted with the permit application on 8th June 2007 and shall take place only as specified in the application, as modified and/or controlled by the terms of this permit.
- 1.4 The permit holder shall give notice in writing to South Dublin County Council Environmental Services Department of any significant changes in the information furnished in the application for the permit. Such notice shall be given within three (3) weeks of any such change arising. On receipt of this information, South Dublin County Council may require a new waste permit application to be submitted.
- 1.5 The permit holder shall comply fully with the requirements of the Waste Management Acts 1996 to 2007, Local Government (Planning and Development) Acts, the Water Pollution Acts and the Litter Pollution Act, and all relevant regulations.
- 1.6 The permit holder shall comply at all times with the different provisions of the Community Acts detailed in the Third Schedule of the Waste Management (Permit) Regulations, 1998.
- 1.7 The Permit holder shall comply at all times with the 'Waste Management Plan for the Dublin Region 2005-2010' and all amendments to it.
- 1.8 Any condition imposed in this permit shall not relieve the permit holder of his/her statutory obligations under any other enactment whatsoever.
- 1.9 In the event of any breach of the conditions of the permit, the permit holder shall on receipt of notice from South Dublin County Council, cease operations on the site within the time specified on the notice and the permit shall be suspended from the date specified on the notice until such suspension is lifted on rectification of the breach of conditions in the notice. This condition shall apply save when condition no.1.2 is invoked. Notice under this condition shall be sent by registered post to the permit holder at its registered office and shall be deemed to be received three days after posting.

When the notice has been complied with, the permit holder shall provide written confirmation to the local authority that the requirements of the notice have been carried out. No waste, other than that stipulated in the notice shall be accepted at the facility until written confirmation is received from the Council that the notice is withdrawn.

1.10 Commencement Notice.

The permit holder shall give SDCC a minimum of 14 days notice of commencement of permitted operations on site/facility.

REASON: *To clarify the scope of this waste permit.*

CONDITION 2: MANAGEMENT OF THE ACTIVITY

- 2.1 The permit holder shall acquaint all staff, employees, lessees and agents, including replacement personnel, of the provisions and conditions of this permit.
- 2.2 A copy of this Permit shall be held at all times at the facility.
- 2.3 The Site shall be adequately manned and supervised at all times. It shall be maintained to the satisfaction of South Dublin County Council and adequate precautions shall be taken to prevent unauthorised access to the site.
- 2.4 The Permit Holder is to notify the following to South Dublin County Council in writing within one month of receipt of permit:
- (a) The name of the person on site nominated by them who has responsibility for the implementation of the Waste Regulations and the name of his/her deputy.
 - (b) The name, address and telephone number of the person nominated by them to provide 24 hour call out in the event of an emergency.
 - (c) Confirmation of acceptance of all the conditions attached to the permit.
- 2.5 The hours of operation of the facility shall be between the hours of **06-00 and 03-00hrs, Monday to Sunday, 7 days per week**. No waste shall be accepted outside these hours unless otherwise agreed with South Dublin County Council.

REASON: *To make provision for the proper management of the activity.*

CONDITION 3: NOTIFICATION AND RECORD KEEPING

- 3.1 All communications with South Dublin County Council shall be addressed to the **Senior Engineer, Waste Management Section, Environmental Services Department, South Dublin County Council, County Hall, Town Centre, Tallaght, Dublin 24. Phone 01 414 9000, Fax 01 4149334**
- 3.2 Records shall be kept on site in a site register and shall include the following information:
- (a) Name of the carrier.
 - (b) Description and origin of the material in each load.
 - (c) The dates and times of all waste deliveries to the site and vehicle registration numbers.
 - (d) The quantity of the materials.
 - (e) Where loads are removed or rejected, details of the material and the place to which they were removed.

- 3.3 The permit holder shall immediately notify South Dublin Council by telephone/fax of any incident that occurs as a result of the activity on the site, and which: -
- (a) has the potential for environmental contamination of surface water or ground water, or
 - (b) poses an environmental threat to air or land, or
 - (c) requires an emergency response by the Council.

Full details shall be forwarded in writing on the next working day. The permit holder shall include as part of the notification: -

- the date and time of the incident
- details of the incident and circumstances giving rise to it
- an evaluation of environmental pollution caused, if any
- actions taken to minimise the effect on the environment
- steps taken to avoid reoccurrence
- any other remedial action taken.

The permit holder shall make a record of any such incident in a register to be maintained on the site.

- 3.4 The Permit Holder shall maintain on the site a register of all complaints received relating to the operation of the activity. Each such record should give details of the following: -

- time and date of the complaint
- the name of the complainant
- details of the nature of the complaint
- actions taken to deal with the complaint and the results of such actions
- the response made to each complainant

- 3.5 The permit holder shall make all records maintained on the site available for examination to South Dublin County Council staff at all reasonable times, and shall provide any relevant information when so requested by an authorised officer of South Dublin County Council.

- 3.6 The permit holder shall notify South Dublin County Council, within 7 days thereafter, of the imposition of any Court order made under Section 57 or 58 of the Waste Management Act 1996 to 2007, and also of any conviction for an offence under Section 34(5) or 40(7) of the Waste Management Act.

- 3.7 Where waste permits are issued for a period longer than 12 months, the permit holder shall submit to South Dublin County Council an **Annual Environmental Report (AER)** for the preceding calendar year by no later than the **28th February of each year**. For permits issued for 12 months or less, the permit holder shall submit the Environmental Report within one month of waste activities ceasing on the site.

The report shall include the information contained in the registers described above and details of any impositions or convictions imposed under the Waste Management Act, together with details of: -

- (a) the management and staffing structure of the facility
- (b) quantity, composition and destination of all wastes handled at the facility during the year
- (c) details of any loads rejected at the facility during the year
- (d) reportable incidents
- (e) details of all complaints
- (f) In addition, the permit holder shall include in the report, a written summary of compliance with all of the conditions attached to this permit.

REASON: *To provide for the notification of incidents, to update information on the activity and to provide for the keeping of proper records.*

CONDITION 4: SITE INFRASTRUCTURE

- 4.1 The Permit Holder shall provide and maintain a **substantial site notice board** at the entrance to the facility. The Board shall clearly show:
- (a) The name and telephone number of the facility.
 - (b) The waste management permit number and date of grant of the permit.
 - (c) The normal opening hours of the facility.
 - (d) The name, address and telephone number of the permit holder.
- 4.2 The site, site entrance and access roads shall be maintained to the satisfaction of South Dublin County Council. Roadways shall be maintained to ensure the safe movement of vehicles within the facility. No traffic queuing shall be allowed on the public road. No new roadways shall be constructed using demolition and construction waste without the prior approval of South Dublin County Council.
- 4.3 Adequate precautions shall be taken to prevent unauthorised access to the site.

REASON: *To provide for the protection of the environment.*

CONDITION 5: WASTE ACCEPTANCE AND HANDLING

- 5.1 Only the following materials of a solid ~~non-hazardous~~ domestic nature with the appropriate European Waste Catalogue (EWC) Codes shall be accepted and processed at the site:
- 20 01 01 paper and cardboard
 - 04 02 22 Textiles
 - 16 01 03 End of Life Tyres
 - 20 01 39 plastics
 - 20 01 38 wood other than that mentioned in 20 01 37 (wood containing dangerous substances)
 - 19 12 12 other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11 (see Note 1)

Note 1: Only Dry Recyclable material shall be acceptable under 19 12 12

No other waste types are permitted at the facility. The permit holder shall ensure that adequate steps are taken to prevent acceptance of any other waste types.

- 5.2 Materials other than those permitted shall be removed immediately from the site. Such waste shall be disposed of (or recovered) at an alternative facility with an appropriate waste permit or waste license.
- 5.3 The permit holder shall ensure that appropriate storage is provided for the materials on site.

- 5.4 The Permit Holder shall ensure that all contractors and vehicles delivering to the site or transporting waste from the site currently hold a valid **Waste Collection Permit** from the relevant Local Authority in accordance with the Waste Management (Collection Permit) Regulations, or has applied and is legally entitled to collect and transport waste material.

REASON: <i>To provide for the acceptance and management of wastes authorised under this waste permit.</i>
--

CONDITION 6: NUISANCES, EMISSIONS AND ENVIRONMENTAL IMPACTS

- 6.1 The permit holder shall take adequate precautions to prevent undue noise, fumes, dust, grit, untidiness and other nuisances on the site, which would result in a significant impairment of, or a significant interference with, amenities or the environment beyond the site boundary. If unacceptable levels occur, the permit holder shall abide by the Council's abatement requirements, which may include immediate cessation of operations.
- 6.2 All vehicles transporting loose waste to and from the premises shall be **either totally sealed or covered with a net or tarpaulin in such a manner as to preclude the scatter of materials in transit to and from the site.** The permit holder shall be responsible for the clearance of any material deposited on roadways in transit to the site. Failure to maintain roadways in a satisfactory condition will result in this permit being revoked and possible prosecution.
- 6.3 Loose waste, which may be lying on the site or access road to the site, shall be gathered and disposed of immediately or as directed by the Council. **Preventative measures must be in place to minimise the incidents of waste materials from your premises entering adjacent premises.** Details of these **preventative measures** must be forwarded to our offices within 14 days on receipt of this permit.
- 6.4 Dust suppression equipment must be available at all times in the event of excess dust emissions arising from the operations. The permit holder must comply with all Occupational and Health & Safety Legislation requirements with regard to the employees' health and safety requirements.
- 6.5 The permit holder shall take adequate steps to minimise noise from the development and shall have regard to noise sensitive locations. In addition there shall be no clearly audible tonal component or impulsive component in the noise emissions from the site at any noise sensitive locations. Daily ambient/environmental noise levels should not exceed 55dBA (Leq 5mins) with night time noise levels not exceeding 45dBA (Leq 5mins) at noise sensitive locations.
- 6.6 If, in the opinion of the Roads Maintenance Area Engineer, damage is being caused to public roads being used to haul material to the site by the Permit Holder, he shall be empowered to verbally instruct the Permit Holder to cease using these haul roads and use alternative route(s) until the damage has been repaired to the satisfaction of the Council. The Permit Holder shall comply with any such instruction.
- 6.7 The permit holder shall maintain sufficient and continuous vermin control at the site.
- 6.8 No vehicle queuing or parking of vehicles must occur at the entrance or exit to the facility. If in the opinion of South Dublin County Council, vehicles are causing a

potential hazard to road users in the area or a hazard to users of adjacent facilities, the Permit may be suspended or possibly revoked.

REASON: *To provide for the control of nuisances, emissions and other environmental impacts.*

CONDITION 7: ENVIRONMENTAL MONITORING

- 7.1 **Authorized staff of South Dublin County Council shall have unrestricted access to the premises at all reasonable times on production of identification**, if required, for the purpose of their functions under the Waste Management Acts 1996 to 2007, including such inspections, monitoring and investigations as are deemed necessary by the Council.

REASON: *To ensure compliance with the requirements of the conditions of this permit.*

CONDITION 8: CONTINGENCY ARRANGEMENTS

- 8.1 Adequate fire extinguishers and emergency response equipment shall be maintained on site.
- 8.2 The permit holder shall ensure that an **Emergency Response Procedure (ERP)** is in place, which shall address any emergency situation that may originate on site. This procedure shall include provision for minimizing the effects of any emergency on the environment. The ERP is to be submitted to South Dublin County within six months of the date of issue of this permit.

REASON: *To provide for an emergency situation at the facility.*

CONDITION 9: CHARGES AND FINANCIAL PROVISIONS

- 9.1 The Permit Holder shall indemnify South Dublin County Council in respect of all claims, losses, damages arising out of injury to any person or loss of or damage to any property whatsoever caused by or in connection with the operation and management of the facility.
- 9.2 The Permit Holder shall pay to South Dublin County Council a fee of **€12,000**, towards the cost of inspecting, monitoring or otherwise performing any functions in relation to the permit activity. **€4,000** to be paid within 14 days of the date of commencement, referred to in condition 1.9, failure to pay the fee on time will render the permit invalid, **€4,000** to be paid on the each anniversary of the date of the initial payment. Should this permit be suspended or revoked for any reason, the fee is non-refundable.
- The fee is due 14 days after the notice of commencement of permitted operations, referred to in condition 1.9. Failure to pay the fee on time will render the permit invalid.
- 9.3 In the event of an incident occurring at the site which leads to the emission or release of hazardous materials or of waste which contains any of the properties outlined in Part III

of the Second Schedule of the Waste Management Act, 1996 to 2007 and which has a detrimental effect on the surrounding environment, or which is deemed to be so by authorised officers from South Dublin County Council, pollution abatement and remediation measures must be taken. South Dublin County Council may take these measures and their costs reimbursed by the permit holder. Analysis and monitoring included in these measures if required must continue for not less than 10 years after the final remediation works have been carried out.

REASON:	<i>To provide for adequate financing for monitoring and financial provisions for measures to protect the environment.</i>
----------------	---

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Attachment H 3 - Waste Disposal by On-site Landfilling

No waste is disposed of by landfill on this site.

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Attachment I 0 – Site Conditions

Conditions at the site are controlled according to the terms of the current IPPC license (Reg. P0075-02).

There are no known issues with environmental conditions (ground, groundwater, air, noise, surface water, sewer) of the site.

Furthermore, there is no evidence to suggest that activities at the site have a harmful effect on environmental conditions at the site or external to it. As stated elsewhere in this application, the manufacture of wood preservative at this site does not involve emissions to the media at or surrounding the site. Therefore, Burgess Galvin & Co. Ltd., in proposing to add this activity to its IPPC license, are confident that it is not necessary to implement measures for minimising pollution over long distances or in the territory of other states.

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Attachment I 1 – Assessment of Atmospheric Emissions

Compliance with S.I. 394 of 2004

Emissions from this site to the atmosphere do not include any of the main polluting substances (as defined in the Schedule of S.I. 394 of 2004).

The manufacture of wood preservative at this site does not result in any intentional discharges of effluent to the sewer.

Flue Gas Emissions

In accordance with conditions of the current license (Reg. P0075-02), emissions to the atmosphere from the site were analysed in November 2007 and the report generated is included as part of this application (**Attachment I 1A**).

Fugitive Emissions

As described in **Attachment E 1B**, the manufacture and packing of wood preservative on the site result in fugitive emissions of kerosene vapour because of the displacement of kerosene upon refilling the bulk storage tank. As also described in **Attachment E 1B**, these vapours have been found to comply Annex IIA of Council Directive 1999/13/EC,

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***MONITORING OF AIR EMISSIONS AT
THE BURGESS GALVIN FACILITY,
FINGLAS, IN COMPLIANCE WITH
INTEGRATED POLLUTION CONTROL
LICENCE, REGISTER No.P0075-02.***

For the Attention of:

Mr. Tom Taylor
Burgess Galvin
Jamestown road
Finglas
Co.Dublin

Prepared by:

Mr. Andrew Mahon
Environmental Scientist

Reviewed by:

Mr. Kenny Bucke
Environmental consultant

Ref: ECS2770-November 2007

Report Date: January 2008

EXECUTIVE SUMMARY

Burgess Galvin is required to monitor air emissions from their plant in Finglas, in accordance with the company's Integrated Pollution Control Revised Licence, Reference No. P0075-02.

Burgess Galvin contracted Bord na Móna Technical Services to carry out monitoring of the combustion efficiency of three air emissions points A2, A3 and A5 (Boilers) in partial compliance with this licence. As part of this monitoring event, levels of nitrogen oxides, sulphur dioxide and carbon monoxide were also monitored.

This report details the results of that monitoring programme which was carried out on 26th of November 2007. Three boilers (emission points A2, A3 and A5) were monitored when firing on natural gas for combustion efficiency and flue gas emissions.

This report is certified as accurate and representative of the sampling and associated analysis carried out.

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Mr. Andrew Mahon
Environmental Scientist

Mr. Kenny Bucke
Environmental Consultant

1.0 INTRODUCTION

In accordance with the requirements of Integrated Pollution Control Licence Register No. P0075-02, Burgess Galvin, Jamestown Road, Finglas, Dublin is required to monitor air emissions from their plant on a biannual basis.

Bord na Móna, Technical Services was contracted to carry out this monitoring programme and the facility was subsequently visited by an Environmental Consultant from Bord na Móna Technical Services on the 26th of November 2007. During this event boiler emission points A2, A3 and A5 were scheduled for monitoring.

This report details the sampling and analytical methodologies employed and also includes a broad interpretation of the results obtained.

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2.0 **METHODOLOGIES**

This section provides brief details of the methods employed for the determination of the various parameters.

EMISSION MONITORING

Table 2.1 : Summary of Methods	
Parameter	Method
Carbon Monoxide	ISO 12039
Oxides of Nitrogen	ISO 10849
Sulphur Dioxide	BS EN 6069
Combustion Efficiency	Testo 350xl ^{note 1}

Note 1: A Testo 350xl flue gas analyser was used to assess the efficiency of the three boilers. This is a technically perfected multimeter that can measure O₂, CO, CO₂, NO_x as NO₂, and SO₂. The efficiency is based on the following boiler emission parameters: temperature, percentage of oxygen (O₂) or carbon dioxide (CO₂) by volume, chemistry of the fuel (the various proportions of hydrogen, carbon, oxygen and other compounds) and is calculated directly by the analyser.

3.0 **RESULTS**

The results of the quarterly monitoring survey carried out at the Burgess Galvin facility are presented in Tables 3.1 to 3.3:

TABLE 3.1: SAMPLING PARAMETERS FOR STACKS MONITORED			
Emission Point	Parameter	Date Sampled	Time Sampled
A2	Combustion Efficiency	26/11/07	12:06 – 12:30
	Flue Gas	26/11/07	12:06 – 12:30
A3	Combustion Efficiency	26/11/07	11:10 – 11:28
	Flue Gas	26/11/07	11:10 – 11:28
A5	Combustion Efficiency	26/11/07	12:55 – 13:19
	Flue Gas	26/11/07	12:55 – 13:19

TABLE 3.2: RESULTS OF FLUE GAS MONITORING			
Stack Ref Code	CO (mg/Nm ³)	NO _x (as NO ₂) (mg/Nm ³)	SO ₂ (mg/Nm ³)
A2	<1	119	<1
A3	9	172	2
A5	331	235	24
Licence Limits	N/A	N/A	N/A-

Note 1: Results are referenced to 6% oxygen, temperature 273K and pressure 101.325 kPa.

TABLE 3.3: Combustion Efficiency			
Emission Point	Parameter	Net Efficiency	Gross Efficiency
A2	Combustion Efficiency	87.2	79.1
A3	Combustion Efficiency	87.8	79.7
A5	Combustion Efficiency	89.9	81.6

Note 1: Results are referenced to 6% oxygen, temperature 273K and pressure 101.325 kPa. The analyser was programmed to Natural gas

4.0 COMMENT

Tables 4.2 to 4.3 present the results of the recent air monitoring that was carried out at emission points, A2, A3 and A5 at the Burgess Galvin facility on the 26th of November 2007.

Monitoring was undertaken in accordance with Schedule 1(i) of IPPC Licence Register P0075-02. There are no specified limits as part of this schedule. Emission Points A2, A3 and A5 are boiler emission points. All boilers were firing on natural gas during the monitoring visit and were monitored for combustion efficiency and flue gas emissions.

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Attachment I 2 – Assessment of Impact on Receiving Surface Water

Emissions to Surface Water

There are no direct emissions from this site to surface waters, except rainwater, which enters the Dublin City Council surface water outfall and then the Tolka River.

Compliance with S.I. 394 of 2004

Emissions from this site to surface waters do not include any of the main polluting substances (as defined in the Schedule of S.I. 394 of 2004).

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Attachment I 3 – Assessment of Impact of Sewage Discharge

The Effect of Wood Preservative Manufacture on Effluent Composition

No 'chemical' waste is generated as a result of manufacturing wood preservative on the site. Furthermore, the containers used are not washed. The combined effect of these features of the proposed activity is to eliminate additions of the raw materials or products to the effluent settlement tank.

Monitoring of Quality of Discharge of Effluent

Waste water resulting from the washing of the factory floor and the processing vessels used for detergents and adhesives on the site enters the effluent settlement tank. Solids, mainly from the production of adhesives, are deposited in the settlement tank and the supernatant fluid is allowed to overflow to a discharge tank.

Samples from the discharge tank are taken every 1 – 2 days. If the pH and temperature are found to comply with the terms of the current IPPC license (Reg. P0075-02) for these parameters, a maximum of 3 m³ of effluent per day is discharged to the sewer.

If necessary, the pH of the effluent is adjusted before discharge with either an acidic or an alkaline solution.

Samples from the effluent discharge tank are submitted bimonthly to an independent, ILAB-accredited laboratory to determine the following quantities:

- Chemical Oxygen Demand (C.O.D.)
- Biological Oxygen Demand (B.O.D.)
- Suspended Solids
- Detergent
- Phosphate (as PO₄)
- Sulphate (as SO₄)
- pH

The results of these analyses are submitted in summarised form to the Environmental Protection Agency.

Samples from the effluent holding tank are regularly collected by both Dublin City Council and the Environmental Protection Agency.

Sewer Maintenance

Burgess Galvin & Co. Ltd. discharge trade effluent into a sewer controlled and maintained by Dublin City Council.

Interaction of Sewage from Different Sources

As far as Burgess Galvin & Co. Ltd. are aware, sewage discharged from the site does not interact with sewage from other sites to cause harm to the environment.

Conclusion

All the evidence available suggests that that sewage discharged from the site does not have a significant, harmful effect on the environment.

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Attachment I 4 – Assessment of Impact of Ground / Groundwater Emissions

Emissions to Ground

There are no emissions to ground as a result of any activities on the site.

Emissions to Groundwaters

Emissions to groundwaters occur, indirectly, as result of the discharge of rainwater, which enters the surface water outfall (controlled by Dublin City Council) and is then the Tolka River. These emissions are regulated under the conditions of the current IPPC licence (Reg. P0075-2).

Landfilling or Landspreading

No waste from this site is disposed on site by landfilling or landspreading.

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Attachment I 5 – Summary of Ground and / or Groundwater Contamination

Ground and / or Groundwater Contamination

There is no evidence to suggest that the ground and / or groundwater on or under the site is contaminated or has been contaminated in the past.

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Attachment I 6 – Assessment of the Environmental Impact of Waste Recovery and / or Disposal

On-site Waste Disposal

No waste is disposed of on the site.

Off-site Waste Disposal

Discharges to the Sewer

The impact of discharges to the sewer is examined in **Attachment I 3**.

Removal of Packaging Waste

Packaging waste, consisting of a mixture of paper, wood and plastic wrapping, is added to skips, which are collected and disposed of by Greyhound Waste.

Paper and wood are fully biodegradable and their disposal will have no impact upon the environment.

Plastic wrapping will have an impact upon the environment due to its slow rate of degradation.

Recycling of Packaging Waste

Wooden pallets supplied with raw material are used for finished product if they are suitable. If not, they are returned to the supplier.

Waste cardboard, from either the filling or manufacturing areas on the site, is collected by Panda Waste Services and recycled by Irish Packaging Recycling.

Steel drums are removed for recycling by Aidan C. Lacey Recycling.

Attachment I 7 - Assessment of Noise Impact

The results of noise measurements at the site are detailed in **Attachment E 5**.

At location 3, where the site meets the Jamestown Road and which is the most noise-sensitive location, noise from the site is not audible. Noise from traffic passing is the dominant noise at this location.

In conclusion, noise emissions from the site have a minimal impact on the environment.

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Attachment I 8 – Environmental Considerations and BAT

This document describes the environmental considerations that have been taken into account with respect to the use of cleaner technologies, waste minimisation and raw material substitution.

Elimination of Chemical Waste

The wood preservatives produced at this site are produced with materials that blend easily and with processes that do not involve side reactions. Furthermore, the vessels used to manufacture and store the products are never washed out. These two factors mean that the activity generates no 'chemical' waste and significantly reduces the probability that one of these chemicals will pollute the environment at the site or in its surroundings.

This makes the activity comply Directive 2006/12/EC of the European Parliament and of the Council of 5 April 2006 on waste (the codified version of Directive 75/442/EEC as amended).

Environmental Quality Standards Requiring Compliance with Stricter Conditions

Burgess Galvin & Co. Ltd. are not aware of any environmental quality standard that requires compliance with stricter conditions than would otherwise be determined by reference to best available techniques.

Assessment of Atmospheric Emissions

As stated earlier the main emission associated with the manufacture of wood preservative to the atmosphere is the fugitive discharge of odourless kerosene vapour upon refilling the bulk storage tank.

While usage of kerosene has increased as a result of the proposed activity, refilling of the bulk storage tank for this material takes place approximately once per month, meaning that fugitive emissions, resulting from refilling of the tank, will not be excessive.

Assessment of Atmospheric Emissions due to the Effect of Combined Activities on the Site

It is essential to consider the effect on atmospheric emissions of the manufacture of different products on the site — detergents, adhesives [for which an IPPC license (Reg. P0075-2) is already held] and wood preservative. The effect of individual activities on atmospheric emissions may be very different to that of the combination of the activities.

The conditions created by the proposed activity are essentially the same as that previously as kerosene was already used on the site in the manufacture of some degreasing detergents. At the time of the previous application, four materials — kerosene, vinyl acetate, sodium hypochlorite and vinyl ester — gave rise to fugitive atmospheric emissions. Vinyl ester is no longer used

and no bulk chemical has been added to the site that gives rise to atmospheric emissions.

Therefore, Burgess Galvin & Co. Ltd. are very confident that the manufacture of wood preservative at the site will not cause significant harm to the atmosphere.

Efficiency of Energy Use

Relatively little electricity is used in the production of the wood preservatives at this site [see Table G.1(i)]. This is because of the mild nature of the processes involved.

Prevention of Accidents

Of the materials used in the manufacture of both types of wood preservative at Burgess Galvin & Co. Ltd, kerosene, because of its flammable nature, represents the greatest threat. However it is stored in a tank controlled with valves, which minimises the possibility of an uncontrolled leak and, by extension, a hazard associated with a kerosene leak.

The wood preservatives produced at this site are produced with materials that blend easily and with processes that do not involve side reactions or generate heat. Thus, the relatively mild nature of the proposed activity significantly minimises the probability that it will result in an accident.

Handling of Accidents

Accidental spillages of materials or product are dealt with depending on whether the item is a solid or liquid.

Spillage of Solids. Item swept up and transferred to a holding tank. If it has been contaminated, it would be disposed of as per instructions in the material safety data sheet. If not, it would be used as normal.

Spillage of Liquids. Spillage from a bulk storage tank would be contained within a bund. Small spillages of liquid would be soaked with solid adsorbent, which is available on site and disposed of as per instructions in the material safety data sheet for the item.

Larger spillages would be dealt with by first examining the extent of any contamination. Then, if the item was **not** contaminated, it would be pumped into 1-tonne containers and re-introduced sparingly into the production process, (typically 19 parts unleaked item, 1 part leaked item). If it was contaminated the item would also be pumped into 1-tonne containers and disposed of as per instructions in the material safety data sheet for the item.

Handling of Accidents Outside of Work Hours

External security personnel visit the site between 6 p.m. each evening and 7:30 a.m. the following morning. If a large spillage of material took place on one of the outdoor areas on the site, the security personnel would be likely to notice it and key holders of the site would be contacted in a pre-defined order. The key holder shall determine what action needs to be taken. S/he shall decide if the emergency services need to be called; s/he shall decide if the key holder need to visit the site immediately to assess the hazard before deciding on further action.

If none of the key holders are available emergency services shall be called and informed of the emergency. The emergency services have been previously instructed on the possible hazards that can occur on the site and their locations.

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Attachment J – Accident Prevention & Emergency Response

Accident Prevention

Part of the responsibilities of the Chemists on the site is to ensure that operations conform to Health and Safety Regulations and where there are changes to these regulations, to ensure that the appropriate changes are made to manufacturing procedures and equipment.

All manufacturing personnel are instructed in accident prevention as part of their training.

One of the responsibilities of the Chemists, the Production Manager and the Production Foreman is to observe manufacturing personnel and to take action where appropriate to prevent accidents from taking place.

Manufacturing personnel must work in the vicinity of one other person. This reduces the possibility of an accident taking place without the knowledge of other employees. In the event of accident, those other employees can decide what action needs to be taken to treat the injured party and minimize any impact on the environment.

Minimisation of the Impact on the Environment of an Accidental Emission or Spillage.

Accidental spillages associated with the manufacture of wood preservative at Burgess Galvin & Co. Ltd are very rare. Where do they occur, solid adsorbent is used to control the extent of liquid spillages.

Provisions for Response to Emergency Situations Outside of Normal Working Hours.

With regard to identifying the spillage, external security personnel, who visit the site between 6 p.m. each evening and 7:30 a.m. the following morning, have been instructed to look out for fires, break-ins, leakages and anything else out of the ordinary. If an extraordinary event occurs, the security personnel shall contact key holders in a pre-defined order. The key holder shall determine what action needs to be taken (s/he may decide to visit the site to assess the hazard before deciding on further action or s/he may decide to call the emergency services immediately).

If none of the keyholders are available, the emergency services shall be called and informed of the emergency. The emergency services have been previously instructed on the possible hazards that can occur on the site and their locations.

Arrangements for Abnormal Operating Conditions

The relatively simple nature of the blending process involved in the manufacture of both types of wood preservative on the site means that abnormal operating conditions, if they do occur, do not result in an environmental hazard.

Accident Assessment

Where an Accident takes place, one of the Chemists generates a report and if changes are required to manufacturing procedures and equipment, they are implemented after consultation with senior management, the Production Manager and the Production Foreman.

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Attachment K – Remediation, Decommissioning, Restoration & Aftercare

Cessation of Activity

In the event of cessation of the activity or part of the activity, the measures described below would be employed to minimize the environmental impact.

The water-based products are made to order and no stock is held. The amount of the solvent-based product held in stock is very low. In the case of both types of product, if production ceased, Protim Abrasives Ltd. would be responsible for handling the remaining raw materials and product.

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Attachment L - Statutory Requirements

This document details how Burgess Galvin have complied with relevant environmental statutory requirements and the company's plans to continue to do so.

Compliance with the Environmental Protection Agency Acts, 1992 and 2003

This section document indicates how the requirements of Section 83(5)(a)(i) to (v) and (vii) to (x) of the Environmental Protection Agency Acts, 1992 and 2003 shall be met, having regard, where appropriate, to any relevant specification issued by the Environmental Protection Agency under section 5 (3) of the Act and the reasons for the selection of the arrangements proposed.

This points made in this section are numbered to aid in identifying how each point statement corresponds to the relevant clause of the aforementioned acts.

- (i) Burgess Galvin & Co. Ltd. is satisfied that the activity complies with section 50 of the Air Pollution Act 1987, section 51 of the Air Pollution Act 1987.
- (ii) Burgess Galvin & Co. Ltd. is satisfied that the activity complies with section 26 of the Local Government (Water Pollution) Act 1977.
- (iii) Burgess Galvin & Co. Ltd. is satisfied that any emissions from the activity or any premises, plant, methods, processes, operating procedures or other factors which affect such emissions will comply with, any relevant standard including any standard for an environmental medium prescribed under regulations made under the European Communities Act 1972 under any other enactment.
- (iv) Burgess Galvin & Co. Ltd. is satisfied that any noise from the activity will comply with regulations under section 106 of the Environmental Protection Agency Act of 1992.
- (v) Burgess Galvin & Co. Ltd. is satisfied that any emissions from the activity will not cause significant environmental pollution. This assertion is based on the fact that no 'chemical' waste is generated from the activity. The wood preservatives produced at this site are produced with materials that blend easily and with processes that do not involve side reactions. Furthermore, the vessels used to manufacture and store the products are never washed out. Air emissions are minimised by storing kerosene in a sealed tank and the only other volatile component [methyl ethyl ketoxime (MEK)] is used in very small quantities (see **Attachments A 1, G, and I 8**).
- (vii) Burgess Galvin & Co. Ltd. is satisfied that the activity shall comply with the Waste Management 1996. This assertion is based on the fact that the only waste is generated from the activity is from the packaging of raw materials.
- (viii) Burgess Galvin & Co. Ltd. is satisfied that the activity will use energy efficiently. This assertion is supported in **Attachments A1 and G**.
- (ix) Burgess Galvin & Co. Ltd. is committed to:
 - taking the necessary measures to prevent accidents on its premises;
 - limiting the consequences for the environment if an accident occurs; and
 - taking action on those consequences.

These measures are detailed in **Attachment J**.

- (x) The necessary measures will be taken upon the permanent cessation of the activity to avoid any risk of environmental pollution. See **Attachment K**.
- (xi) The applicant considers himself to be a fit and proper person to hold an Integrated Pollution Prevention and Control (IPPC) licence and evidence for this assertion is provided below in this attachment.

Compliance with Legislation on Protected Areas

The premises of Burgess Galvin & Co. Ltd. is **not** located on:

- (a) a site that has been placed on a list in accordance with Chapter 1 of S.I. 94 of 1997;
- (b) a site where consultation has been initiated in accordance with Article 5 of the EU Habitats Directive (92/43/EEC);
- (c) a European site as defined in Article 2 of SI 94 of 1997.

Compliance with Legislation on Water Quality

As stated elsewhere in the application (see **Attachments A 1, G, and I 8**), the manufacture of wood preservative on the site does not result in discharges to the sewer, surface waters or ground waters and, therefore, the activity is **not** liable to have an adverse effect on water quality in the light of S.I. No. 258 of 1998, Local Government (Water Pollution) Act, 1977 and (Water Quality Standards for Phosphorus) Regulations, 1998.

Compliance with Legislation on Principle Polluting Substances

None of the substances listed in the Schedule of S.I. 394 of 2004 are emitted from the site.

Compliance with Legislation on 'Fit and Proper Person' Requirements

The applicant acknowledges that The Protection of The Environment Act 2003 specifies:

[in Section 83(5)(xi)] that the Environmental Protection Agency (EPA) shall not grant a licence unless it is satisfied that the applicant or licensee or transferee as the case may be is a fit and proper person; and

[in Section 84(4)] the information required to enable the EPA to determine that the applicant is a fit and proper person.

Compliance with Relevant Acts

The applicant wishes to state neither he nor any person employed by Burgess Galvin & Co. Ltd has been convicted under The Protection of The Environment Act 2003, the Waste Management Act 1996, the Local Government (Water pollution) Acts 1977 and 1990 or the Air Pollution Act 1987.

Technical Knowledge / Qualifications of Relevant Employees

Relevant Employees

Dr. Tom Taylor
Technical Director

Skills and Experience

- 30 years experience in management of all aspects of Burgess Galvin & Co. Ltd. including:
 - Environmental Management
 - Health & Safety
 - Production
 - Research & Development
 - Quality Management
 - Personnel

Qualifications

Ph.D.
Member of Royal Society of Chemistry

Dr. Paddy Kane
Chemist

Skills and Experience

- Chemical Analysis
- Development of new products
- Incorporation of new materials into products
- Quality Systems (I.S. EN ISO 9001:2000)
- Data Analysis
- Generating reports and presentations

Qualifications

2003 Diploma in Management of Technology, Institute of Technology, Tallaght
2001 Membership of Royal Society of Chemistry (RSC)
1998 Ph.D., Chemistry, DCU
1995 Introduction to C Programming, 795 City & Guilds, Griffith Institute, Dublin 8
1994 Graduateship Examination of the RSC – 1st class honours
1989 Licentiate of Institute of Chemistry of Ireland
1989 Quality Assurance 743 City & Guilds of London, DIT
1986 Technician Diploma in Applied Science, DIT

Ms. Eiméar Griffin
Chemist

Skills and Experience

- Chemical Analysis
- Development of new products
- Incorporation of new materials into products
- EPA protocols
- Quality Systems (I.S. EN ISO 9001:2000)
- Data Analysis
- Generating reports and presentations

Qualifications

2004 B.Sc. (Ordinary) in Physical and Life Sciences, Dublin Institute of Technology

Demonstration of Financial Commitment

Fees Paid to the Environmental Protection Agency (EPA)

The applicant has held an Integrated Pollution Prevention and Control (IPPC) license since 9 April 2001. In the intervening period the applicant has continued to pay the annual fees levied by the EPA to allow the agency carry out its monitoring duties.

Fees Paid to the Dublin City Council (DCC)

The applicant is committed to paying DCC for providing a drainage facility, for reception, treatment and monitoring trade effluent from the site.

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