

working for a cleaner environment

Oxigen

Waste Licensing Waste Recovery/Disposal Activities (Other than Landfill Sites)

Section E

Waste Acceptance and Handling



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Waste Licensing Waste Recovery/Disposal Activities (Other than Landfill Sites)

Section E1

Existing Waste Types & Quantities

E.1 EXISTING WASTE TYPES AND QUANTITIES

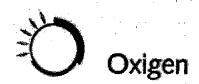
Oxigen Environmental Ltd. currently operates a waste transfer facility at the site in accordance with the Waste Licence (Register No. 152-1) as received from the Environmental Protection Agency in December 2001. A copy of this licence is given in Attachment B.3.

Waste volumes collected to date are detailed below:

Waste Quantities accepted at the site to date					
Year	Volume (tonnes)				
2002	16,645.22				
2003	32,633				
2004 to date	0,110 ^{5 10} 2,341 ^{Note 1}				

Note 1: Facility was not operational between February and September 2004.

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Waste Licensing Waste Recovery/Disposal Activities (Other than Landfill Sites)

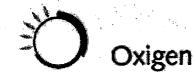
Section E2

Proposed Waste Types & Quantities

E.2 PROPOSED WASTE TYPES AND QUANTITIES

Details of the proposed waste types and quantities to be accepted at the facility are presented in Table's E.2.1, E.2.2, E.2.3 and E.2.4 of the application form.

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Waste Licensing Waste Recovery/Disposal Activities (Other than Landfill Sites)

Section E3

Waste Acceptance Procedures

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E.3 WASTE ACCEPTANCE PROCEDURES

Introduction

The operator of the site shall accept only wastes as defined in Tables E.2.1, E.2.2, E.2.3, E.2.4 of the waste licence application form. In order that this requirement is achieved in full, Oxigen Environmental Ltd. will ensure that copies of the relevant documents are readily available to those persons charged with the management and the day to day running of the facility.

Oxigen Environmental Ltd. shall further ensure that those persons involved with the running of the facility shall be technically competent and have completed the FAS Waste Management Course to ensure the proper running of the facility.

Waste Acceptance Criteria

Oxigen Environmental Ltd. have developed a procedure for the baling of waste at the Robinhood Industrial Estate site. A copy of this procedure has been attached.

Operational Hours

The facility shall accept waste between the hours of 06:00 and 20:00 Monday and Saturday. Waste will not be accepted on the site after 20:00.

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1 Purpose / Scope

The purpose of this document is to describe the methods involved in ensuring that all waste being received on the site is segregated into the appropriate waste streams for recovery/recycling and that any materials on the unacceptable waste list are quarantined in the correct manner.

2 References

Weight Bridge Docket Unacceptable Waste List – Rev 00

3 Delivery of Skip to Customer

On delivery of skips to customers a list of unacceptable waste is attached.

These materials are as follows:

Waste Type	Description
Waste oil	Oil Liquids 🧬
Oil Filters	Vehicle/ machine types
Asbestos	Construction and Demolition industry types,
	house clearance etc.
Oil/ Sand mixtures and/ or mixtures of Oil and	Oil spill clean ups and soak ups
other materials	iliee -
Petroleum wastes	Petrol liquids and sludges
Chemical wastes	Drummed chemicals
Paints, Inks and Thinners	Solvent based liquids
Infectious Health Care wastes	From Hospitals and Industry
Lead Acid Batteries	Vehicle and machine types
Fluorescent Light Bulbs	Tubes and bulb types
Gas bottles/ cylinders	Empty metal types
CFC gases from refrigerators of	Waste fridges
Large volumes of liquids	Volumes greater than 200 litres
other materials Petroleum wastes Chemical wastes Paints, Inks and Thinners Infectious Health Care wastes Lead Acid Batteries Fluorescent Light Bulbs Gas bottles/ cylinders CFC gases from refrigerators one of the formation of th	Vehicle and machine types

4 Collection of Skip

The driver arrives on site to collect a full skip.

He quickly inspects the skip to ensure that all the material is acceptable.

If the material is found to be acceptable, he will take it back to the transfer station.

If the material is unacceptable he will inform the customer that the materials must be removed before the skip is taken back to the yard.

5 On Site Acceptance of the Waste

On entering the site it is again visually inspected. If the materials are acceptable, the driver moves to the weighbridge for a weight reading and where the character of the waste is recorded

He is then directed where to offload by the yard supervisor.

Commercial waste is directed to the segregation shed.

Construction and Demolition waste is directed to the Construction and Demolition waste recovery area.

The materials are emptied onto the inspection floor of the various sections.

6 Non Conforming Waste.

 If the material presented is found to be unacceptable at any time after it has entered the site it is immediately loaded back into a skip and placed undercover in the waste quarantine area.

An appropriate facility for the recovery or disposal of the material will be identified immediately and the materials will be sent there to be properly dealt with.

The customer will be notified as to the offending material that has been found in the skip or bin.

Procedure for Baling Waste at Robinhood

Oxigen

1 Purpose / Scope

The purpose of this document is to describe the methods involved in the operation of the baling station and the traffic management at Robinhood.

2 References

Safety Statement Accident Reporting Procedure ERP 02

3 Records

Weighbridge Dockets Maintenance Checks

4 Procedure

4.1 Traffic Management

4.1.1 Traffic Management

inspection purposes only any other use. All waste vehicles shall be weighed entering and exiting the site. This is the responsibility of the weighbridge operator. All waste vehicles either entering or exiting the site shall pass onto the weighbridge as long as it is clear using normal rules of traffic. Right of way shall be given to traffic already on the weighbridge or traffic entering the site from the public road.

4.1.2 Waste In Vehicle Movements

Traffic entering the site shall pass onto the weighbridge via a barrier operated by the weighbridge operator this prevents any vehicles entering the site without any record of the transaction. The weighbridge operator shall record the vehicle registration, the direction of the waste, the type of waste, the origin of the waste and the gross weight of the vehicle, the date and time will be captured automatically by the system. Once the weighbridge operator has captured the relevant data it will then signal via a green traffic light that the driver may proceed into the yard.

The driver then proceeds to the queuing point. The driver waits their turn at the queuing point until a green light indicates which door he should proceed to for unloading. The driver then reverses in through the door and unloads the vehicle. The driver shall obey

Issued on:	Approved by: Operations Manager	Doc. No 37
01/06/04		Page 1 of 5

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any instructions given by the yard supervisor with respect to vehicle movements. Once emptied the driver then proceeds to the weighbridge and the weighbridge operator captures the tare weight of the vehicle and correlates it to the incoming data. The weighbridge operator then prints out a weighbridge ticket for record keeping purposes and may also print a copy for the driver. Once the tare weight has been captured the weighbridge operator then opens the barrier to allow the vehicle to exit the site.

4.1.3 Waste Out Vehicle Movements.

The vehicle exiting the site shall enter onto the weighbridge. The weighbridge operator shall record the vehicle registration, the type of waste, the direction of the waste, the waste type and the gross weight of the vehicle, the date and time will be captured automatically by the system. Once the weighbridge operator has captured the relevant data it will then lift the barrier to allow the vehicle to exit the site. The tare weight for the vehicle with trailer and empty container shall be stored by the system and a net weight can be calculated alternatively a tare weight can be determined when the vehicle returns to the site.

4.1.4 Waste Records.

All waste movements shall be recorded on the GeneSys weighbridge system. As a minimum the vehicle registration, the waste type, the origin/destination, the gross weight, the tare weight and the date and time of the transaction shall be recorded on the system. If the system is not available then a written record shall be kept and updated onto the system at the earliest opportunity. At the end of each days operation a reconciliation of waste movements in and out shall be made and this shall be signed off by the Yard Supervisor. Any discrepancies in the weights in and out shall be investigated and resolved by the following day at the latest. Any unaccounted waste movements shall be reported to the Facility Managers

In the event that the weighbridge system is unavailable then a manual record shall be taken either by the weighbridge operator or the yard supervisor. If the weight cannot be captured and no weight from the point of origin exists then a best estimate using previous averages shall be used. The weight records shall be updated on the system at the earliest available time and where weights have been estimated, this will be recorded in the comments section of the transaction.

4.2 Waste Handling

4.2.1 Waste Reception

Only waste from contractors with valid waste collection permits or waste collected by Local Authorities will be accepted for baling. Only waste in enclosed or covered containers will be accepted on site for processing

Only MSW waste will be accepted for baling, that includes household waste and light commercial packaging type waste. Heavy industrial skip type waste will not be accepted for baling as this type of material is beyond the scope of the baling machine.

All waste vehicles entering the site shall be directed to the appropriate bay for unloading by the yard supervisor. Any loads of waste entering the site which needs to be inspected shall be directed to the waste inspection bay for unloading. Any material found not suitable for baling during the baling process shall be placed in the Rejected Waste container for more appropriate disposal. Any waste material found that is not on our acceptable materials list shall be transferred to the Quarantine area for disposal at an appropriate facility as determined by the Facility Manager. The contractor delivering the non-conforming waste shall be notified of the non-conforming material received.

4.2.2 Waste Processing

Waste material deposited on the floor shall be loaded into the baler for baling by use of the grab machine. The grab machine may be fed by the loading shovel in order to minimise the movements of the grab machine. Any material found not suitable for baling during the baling process shall be placed in the Rejected Waste container for more appropriate disposal. Any waste material found that is not on our acceptable materials list shall be transferred to the Quarantine area for suitable disposal as determined by the Facility Manager.

The baler shall be operated by the baler operator in accordance with the instructions for baler operation as prescribed by the manufacturer.

4.2.3 Waste Despatch

The Shunter Driver is responsible for ensuring that the waste containers are positioned correctly against the baler diverter and secured properly to the anchor points and that the necessary safety interlocks are engaged prior to any loading of the container is allowed.

Once a waste container is full, the Shunter Driver is responsible for disabling the interlocks, unlocking the anchor points before attempting to remove the container from the baler diverter.

The full container can then be either temporarily parked in the yard in a space allocated, until a tractor unit is available to haul the waste container off site in accordance with paragraph 4.1.3. or shunted off site to the Ballymount site in accordance with paragraph 4.1.3 until a tractor unit is available to haul the waste container to the landfill site or taken out of the yard directly to the landfill site again in accordance with paragraph 4.1.3. The determination of the direction of the waste containers is the responsibility of the Yard Supervisor.

The operation hours of the Arthurstown landfill site are 8:30am to 4:30pm Monday to Friday and 8:30am to 12:30pm on Saturdays. Closed on Sundays and Public holidays. All drivers hauling containers to the Arthrstown site must follow the predetermined route set out by South Dublin County Council. That is down the Naas dual carriageway turning left for Kilteel onto the Landfill Site back to the Naas dual carriageway the same way and then continue on to Naas turning around at the Naas M9 Motorway interchange. No travelling through Johnstown or crossing of the Naas dual carriageway is permitted.

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4.3 Odour Management

4.3.1 Odour Minimisation Measures

All doors not being used are to be kept closed to minimise the movement of air from inside and outside the building. All waste containers are to be kept closed even when empty, unless they are being loaded or washed out.

Waste is to be processed on a first in first out basis. Waste containers are to be moved on a first in first out basis. An exception to this would be if an exceptionally odourous load arrived, then this load would receive priority processing and despatch.

4.3.2 Wash down

The baling machine shall be kept washed down during operation particularly around the baler eject door and the baler diverter area. Any spilled material shall be picked up on a continuous basis during processing. Waste containers when loaded shall be closed over and any material caught in the doors shall be removed.

4.3.3 Odour Inspection

A daily inspection shall be carried out to determine if there are any specific areas that can be identified as generating odours greater than the background. If there are any hot spots located these shall be actioned immediately. The odour inspection report is the responsibility of the Yard Supervisor. Any recurrent hot spots shall be notified to the facility manager.

4.3.4 Probe Units

i copyri The probe units use municipal water to generate a light mist over the waste reception and conveyor area of the facility? This mist is dosed with an active ingredient that attacks odour generating bacteria. These units shall be kept operational whilst there is waste material in the reception area or on the conveyor machine. Operational includes timed intermittent usage. The responsibility of the probe units is the Yard Supervisor. These units cannot be turned off during processing without the Facility Manager's authority.

4.4 Site Personnel

The site shall be operated by the following staff.

4.4.1 Facility Manager

The Facility Manager shall be responsible for the operation of the facility and ensure that it is operated in accordance with the requirements of the waste licence.

4.4.2 EPA Compliance Officer

The Facility Manager shall be responsible for the operation of the facility and ensure that it is operated in accordance with the requirements of the waste licence.

4.4.3 Yard Supervisor

The Facility Manager shall be responsible for the operation of the facility and ensure that it is operated in accordance with the requirements of the waste licence.

4.4.4 Weighbridge Operator

The Facility Manager shall be responsible for the operation of the facility and ensure that it is operated in accordance with the requirements of the waste licence.

4.4.5 Baler Operator

The Facility Manager shall be responsible for the operation of the facility and ensure that it is operated in accordance with the requirements of the waste licence.

4.4.6 Machine Operators

The Facility Manager shall be responsible for the operation of the facility and ensure that it is operated in accordance with the requirements of the waste licence.

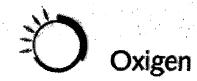
4.4.7 Maintenance Supervisor

The Facility Manager shall be responsible for the operation of the facility and ensure that it is operated in accordance with the requirements of the waste licence.

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5 Persons responsible

Operations Supervisor, Refuse Collection Vehicle Driver, Bin Operative, Waste Inspector, Quality Manager, Maintenance Manager



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Waste Licensing Waste Recovery/Disposal Activities (Other than Landfill Sites)

Section E4

Waste Handling

E.4 WASTE HANDLING

Oxigen Environmental Ltd. have developed a procedure for the baling of waste at the site. A copy of this procedure is located in Attachment E.3, and details methods for waste handling on site.

Waste Quarantine Area

Any waste deemed not acceptable for processing at the facility will not be accepted on-site. In the event that non-conforming or dangerous (such as compressed gas cylinders) waste that inadvertently (due to the nature of the waste i.e. household) is found within the waste stream, it shall be removed and transferred to the Waste Quarantine Area or to specially designated coffins. Non-conforming waste will be stored in the waste quarantine area prior to being consigned off-site for authorised disposal or recovery.

On-Site Storage

Oxigen Environmental Ltd. proposes to store sealed containers of processed waste on site for a maximum of twenty four hours, during the weekdays, and for a maximum of forty eight hours during weekend. This waste shall be stored within the waste processing building. This is to allow waste acceptance to take place up until 20:00. It is anticipated that there will be a maximum of six containers stored on site overnight.



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Waste Licensing Waste Recovery/Disposal Activities (Other than Landfill Sites)

Section E5

Raw Materials and Energy

E.5 RAW MATERIALS AND ENERGY

With the exception of the wastes described in Section E the other materials, intermediates and products used on site comprise fuel, lubricant oil and coolants/lubricants for the plant, cleaning agents and water.

Predicted raw material and energy consumption at the facility are presented in Table E 5.1. These figures are estimated from current usage figures.

Table E 5.1: Raw Material Consumption per Annum

Resource	Quantities
Diesel Oil (MGO)	30,000 litres
Hydraulic Oil (ISO 32)	500 litres
Washing Detergent	of the and 250 litres
Engine Oil (1540)	se alt 100 litres
Gear Oil	50 litres
Electricity installo	1,000,000 kWhr

Electricity for power supply to the offices for lighting and heating is the other source of energy used at the facility. This electricity demand is considered minimal.

Ref.	Material/	CAS	Danger ⁽²⁾	Amount	Annual	Nature of Use	Organic/	R ⁽³⁾ -	S ⁽³⁾ -	Seveso
N ^o or	Substance ⁽¹⁾	Number	Category	Stored	Usage		Inorganic	Phrase	Phrase	Yes/No
Code								{		
-	Gas Oil/Derv	68334-30-5	Harmful	5,000	30,000	Gas Oil	Organic	40, 65, 66	43, 45, 53, 61, 62	No
-	Motor Spirits	86290-81-5	Extremely Flammable	100	100	Spark ignitioin in engines	Organic	12, 65, 38, 45, 51/53, 67	2, 7, 16, 23, 24, 43, 61, 62	No
-	Formula P-98	_	Corrosive	50	250 USE	Bilge Cleaner/short lived detergent	Organic	36/38, 22, 34, 35, 37/38, 41	26, 37	No
-	Kerosines	-	Flammable	200 onto	500	Fuel for heaters	Organic	10, 65, 38	2, 23, 24, 43, 61, 62	No
-	AiroNaut SBC	-		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	600	Used in rotary atomisers	Organic	-	-	No
			Consent of copyright							

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					Toxicological				Radioactive
Substance ⁽²⁾		Aq	uatic						Yes/No
	LC ₅₀	Species	EC ₅₀ ⁽⁴⁾	Species	Oral	Species	IV LD ₅₀	Species	
	mg/l		mg/l		LD50		mg/kg		
					mg/kg	-			
Gas Oil/Derv	-	-	-	-	-	-	-	-	No
Motor Spirits	-		-	-	-	-	-		No
	4.8	Fathead	1 - 1		2.33	SMale Rat	-	_	No
- Formula P-98		Minnow				ther			
Kerosines	1	-	-		South and	-	-	-	No
AiroNaut SBC		· _	-	- NITPO	0000	rat	-	-	No
	Gas Oil/Derv Motor Spirits Formula P-98 Kerosines	LC ₅₀ mg/l Gas Oil/Derv - Motor Spirits - Formula P-98 4.8 Kerosines -	LC 50 mg/lSpecies mg/lGas Oil/Derv-Motor Spirits-Formula P-984.8Kerosines	LC50SpeciesEC50(*)mg/lmg/lmg/lGas Oil/DervMotor SpiritsFormula P-984.8Fathead MinnowKerosines	LC50 mg/lSpecies mg/lEC50 mg/lSpecies Species mg/lGas Oil/DervMotor SpiritsFormula P-984.8 MinnowFathead MinnowKerosines	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\frac{LC_{50}}{mg/l} \xrightarrow{\text{Species}} - \frac{EC_{50}^{(4)}}{mg/l} \xrightarrow{\text{Species}} Oral \\ \frac{LD_{50}}{mg/kg} \xrightarrow{\text{Species}} \frac{M}{mg/kg} \xrightarrow{\text{Species}} Oral \\ \frac{LD_{50}}{mg/kg} \xrightarrow{\text{Species}} Oral \\ \frac{LD_{50}}{mg/kg} \xrightarrow{\text{Species}} Oral \\ \frac{M}{mg/kg} \xrightarrow{\text{Species}} Oral \\ \frac{M}{mg/k$	$\frac{LC_{50}}{mg/l} \xrightarrow{\text{Species}}{mg/l} \stackrel{\text{EC}_{50}^{(4)}}{mg/l} \xrightarrow{\text{Species}}{mg/l} \stackrel{\text{Oral}}{u} \xrightarrow{\text{Species}}{u} \stackrel{\text{Oral}}{u} \xrightarrow{\text{Species}}{ng/kg} \stackrel{\text{IV LD}_{50}}{mg/kg}$	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $

Ref. N ^o or	Material/	TA Luft Class 1,		Fol With		(Tic	EU Lists k and specify Gro		ımber)
Code	Substance ⁽²⁾	2 or 3	Odorous Yes/No	Consent Description	Threshold μg/m ³	-	ostances Directive 64/EEC		ater Directive 68/EEC
				C ^C		List I	List II +129 ⁽⁵⁾	List I	List II
-	Gas Oil/Derv	-	-	-	_	-	-	-	-
-	Motor Spirits		-	-	-	-	-		-
-	Formula P-98	-	-	-	-		-	-	in the
-	Kerosines			-	-	-	-	-	-
-	AiroNaut SBC		-	-	-	-	-	-	-

Campus Oil Online - MATERIAL SAFETY DATA SHEET

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18.53

GAS OIL/DERV

Campus Oil

CAMPUS OIL

MATERIAL SAFETY DATA SHEET

Importers and Distributors of Petroleum Producis

DERV ULTRA LOW SULPHUR DERV GAS OIL CI ULTRA LOW SULPHUR GAS OIL MARINE GAS OIL MARINE DIESEL OIL BS EN 590 BS EN 590 BS 2869: CLASS A2 & D BS 2869: CLASS A2 & D ISO 8217 : DMA ISO 8217 : DMB

1 IDENTIFICATION OF THE SUBSTANCE & OF THE COMPANY / UNDERTAKING IDENTIFICATION OF THE SUBSTANCE OR PREPARATION:

All are middle distillate-type fuels. Campus Oil Derv is a gas oil for use in on-road automotive vehicles. Campus Oil Gas Oil and Marine Diesel and Gas Oils are used in stationary diesel engines in the industrial and marine markets, for off-road use and as a fuel for heating boilers and gas turbines.

Contains:

Fuels, Diesel: CAS No. 68334-30-5

COMPANY IDENTIFICATION:

EINECS No. 269-822-7

Campus Oil Limited Marine Terminal Marshmeadows New Ross Co. Wexford Telephone No. +353 51 421136

EMERGENCY TELEPHONE NO:

+353 51 421136

2 COMPOSITION / INFORMATION ON INGREDIENTS:

Complex mixtures of distillate hydrocarbons mainly paraffinic, naphthenic and aromatic in

the range C10-C28. Catalytically and thermally cracked hydrocarbons may be present. Included may be small concentrations of cetane number improvers (organic nitrates), flow improvers (ethylene vinyl acetate copolymers), a lubricity additive (long-chain ester), silicone anti-foam additives and a HM C& E marker/ dye.

3 HAZARDS IDENTIFICATION

These oils, particularly when catalytically and thermally cracked hydrocarbons are present, may contain polycyclic aromatic hydrocarbons (PCAs); some PCAs have been shown to have a potential to cause skin cancer (category 3 carcinogen). There are small concentrations of cetane no. improvers, flow improvers, anti-foam and detergent additives and marker/ dye that are not considered to represent a health risk.

Injection of fuel under the skin may have serious medical effects.

May be dangerous for the environment.

1. 1. see Campus Oil Online - MATERIAL SAFETY DATA SHEET

FIRST AID MEASURES	
TYPE OF EXPOSURE	FIRST AID MEASURES
Ingestion	Ingestion
The swallowing of small amounts is unlikely	Wash mouth out with water and give wate to drink. If a large amount has been
to have adverse effects; larger amounts may cause irritation with diarrhoea and a something.	swallowed get medical advice. DO NOT INDUCE VOMITING BECAUSE OF THE DANGER OF ASPIRATION.
Skin	Skin
3×111	Wash skin as soon as possible with soap
Unlikely to cause irritation on single contact. Prolonged or repeated contact may cause dermatitis which could	and water. Change contaminated clothing and launder before reuse. Get medical advice if irritation persists.
eventually lead to irreversible skin disorders.	Any injection of fuel under the skin should be considered an EMERGENCY -get
Injection of fuel under pressure through	Medical Advice URGENTLY.
the skin may have serious effects which at firs	t net use.
may not seem serious but, within hours, may become very painful.	Eyes MY and C
Eyes	Wash out thoroughly with large amounts of water If redness and/ or irritation continues get medical advice.
May cause irritation with short-term redness and stinging.	
Inhalation n ^{sent of C}	If inhalation of vapour causes irritation or drowsiness remove to fresh air. Get
Fumes or vapour may cause irritation to eyes and mucous membranes, and drowsiness leading to loss of consciousness.	medical advice if the symptoms continue.
consciousness.	
5 FIRE-FIGHTING MEASURES	
Extinguish with Dry Powder, Foam or Wate Do not use water jets	er Fog. For small fires use CO2
Note -Flash Point 60° C. Fires in closed or confined spaces should b	e tackled by trained personnel who should
wear breathing apparatus.	in an
	i de la companya de l Companya de la companya de la company

Treat any spillage as a fire hazard.

Spray, vapour or mist can be a potential fire or explosion hazard.

May cause damage to surfaces making them SLIPPERY.

Contain spillage -do not wash spillage down drain. Absorb using absorbent clay, diatomaceous clay or other suitable absorbent.

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Where exposure is likely PROTECTIVE CLOTHING should be worn including impervious GLOVES and EYE PROTECTION. Ensure good ventilation.

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7.2 Storage

Transport, handle and store in accordance with applicable local regulations and only in labelled containers designed for this product. Ground and bond shipping container, transfer line and receiving container if there is a chance that the tank has previously contained a low flash material.

Keep away from sparks, flame and other sources of ignition. Protect containers against static electricity, lightning and physical damage.

Drums should be stored on their sides on racks preferably under cover, out of direct sunlight, in well-ventilated conditions.

Other types of containers should be stored under cover out of direct sunlight, in well ventilated conditions. Care should be taken to avoid over-stacking.

8 EXPOSURE CONTROL / PERSONAL PROTECTION

Where prolonged or repeated exposure is likely PROTECTIVE CLOTHING should be worn including impervious GLOVES and EYE PROTECTION.

Respiratory protection -Unlikely to be required in normal use but ensure good ventilation -note Flash Point 60° C min. It is suggested that exposure is kept well below the level of Oil Mist quoted in the current HSE Guidance Note EH40:

Long term exposure limit -(8 hour TWA eference period) 5 milligrams per cubic metre.

Short term exposure limit -(15, minute reference period) -10 milligrams per cubic metre.

Hand and skin protection -Hand and skin protection is strongly recommended.

Eye protection -eye protection is recommended.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Straw to amber fluid; may be dyed red
Density at 15 °C	0.82-0.87
Boiling Range °C	150-385
Flash Point (PMC) °C	60 min
Viscosity, Kinematic at 40 ° C cSt	1.5-7.0

10 STABILITY AND REACTIVITY

Conditions to Avoid - heat (Note: Flash Point 60° C min).

Materials to Avoid - may react with strong oxidising materials.

Hazardous Decomposition Products -thermal decomposition may lead to the formation of a multiplicity of compounds some of which may be hazardous. With incomplete combustion smoke and hazardous fumes and gases, including carbon monoxide may be formed.

http://www.campusoil.ie/data_sheet/gas_pf.html

11 TOXICOLOGICAL INFORMATION

Texicity following single exposure (orally, dermally or by inhalation) to gas oils is of a low order. When gas oils contain cracked components they are classified as category 3 carcinogens.

With the use of good occupational and hygiene practices any risk will be minimal.

12 ECOLOGICAL INFORMATION

Expected to harm aquatic organisms, may cause long-term effects in the aquatic environment. May bioaccumulate; films formed on water may affect oxygen transfer and damage organisms. Likely to biodegrade slowly.

13 DISPOSAL CONSIDERATIONS

Dispose by incineration or by methods approved by Local Authority. Do not discharge into the public drainage system, or marine and inland waterways. Marine Fuels should be disposed of in accordance with MARPOL Regulations.

14 TRANSPORT INFORMATION TRANSPORT CLASSIFICATION

HAZCHEM Code: 3/ Z Symbol: Flammable Liquid

UN: Flammable liquid, Class 3 (III) UN Number (Substance Identification Number): 202 UN Packing Group: III IMO Hazard Class: 3.3 (Vicentia) ICAO Hazard Class: 3.3 IATA Hazard Class 3 (Vicentia) ADR/ RID Hazard Class: 3 -32 (c)

15 REGULATORY INFORMATION

LABELLING

Symbol: Black St. Andrew's cross on orange square

Classification: Harmful. Contains Catalytically Cracked Oils.

R40 -Harmful. Possible risk of irreversible effects

R65 -Harmful: May cause lung damage if swallowed

R66 -Repeated exposure may cause skin dryness or cracking

S43 -In case of fire use foam/ dry powder/ CO2 /Halon. Never use water.

S45 -In case of accident or if you feel unwell, seek medical advice immediately (show label where possible)

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S53 -Avoid exposure -obtain special instruction before use

S61 -Avoid release to the environment. Refer to special instructions/ Safety Data Sheet

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

16 OTHER INFORMATION

Further information can be found in Health and Safety Executive publications, a list of which may be made available on request. This Material Safety Data Sheet has been produced in accordance to EU Directive 93/112/EEC

EPA 30/08/2004

LEGAL NOTICE

The information in this Data Sheet applies only to the products designated herein and produced or supplied by Campus Oil or its subsidiary companies. It is based on our experience and on the data available to us at the time of its issue and is accurate to the

best of our knowledge. The customer is strongly advised to observe and ensure that its employees and customers observe all directions contained herein. However, no warranty is made or implied that the information is accurate or complete and no liability will be accepted whatsoever arising out of the use of the information or the products designated herein. Where third party products are used in conjunction with or instead of products produced or supplied by Campus Oil or its subsidiary companies, the customers should himself obtain all necessary technical, health and safety information about such products from the third party.

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Campus Oil Online - MATERIAL SAFETY DATA SHEET

MOTOR SPIRITS

Campus Oil

MATERIAL SAFETY DATA SHEET

Importers and Distributors of Petroleum Products

Page I

of

SUPER UNLEADED MOTOR SPIRIT LEADED MOTOR SPIRIT UNLEADED MOTOR SPIRIT LEAD REPLACEMENT PETROL LOW SULPHUR PETROL BS 7800 BS 4040 BS EN228 LRP PU50

1 IDENTIFICATION OF THE SUBSTANCE & OF THE COMPANY / UNDERTAKING IDENTIFICATION OF THE SUBSTANCE OR PREPARATION:

MOTOR SPIRITS, also known as PETROL or GASOLINE, are fuels for spark ignition engines mainly for automotive and commercial use. They should not be used in aircraft engines, as solvents or for cleaning.

Contains Gasoline (low boiling point naphtha): CAS No. 86290-81-5 EINECS No. 289-220

COMPANY IDENTIFICATION:

EMERGENCY TELEPHONE NO:

+353 51 421136

Campus Off Limited Marine Terminal Marshimeadows New Ross So, Wexford

Telephone No. +353 51 421136

2 COMPOSITION / INFORMATION ON INGREDIENTS:

Complex mixtures of hydrocarbons mainly in the C4-C10 range. The principal components are paraffinic, naphthenic and aromatic hydrocarbons but cracked constituents and oxygenates can be present. May contain up to 1% Benzene and also additives such as lead alkyl compounds (BS 4040 only), potassium valve seat recession additive (LRP only) antioxidants and detergents, in low concentrations. Exposure limit values exist for the following components: benzene, n-hexane toluene, xylenes.

The following component, present at significant concentration, has health effects:

Conc.	Component	Class.	Risk phrases
>99%	Gasoline	Т	R45 -May cause cancer
		Xn	R65 -May cause lung damage if swallowed
		Xi	R38 -Irritating to skin 1

3 HAZARDS IDENTIFICATION

Motor Spirits are classified as **Extremely Flammable.** The vapour is heavier than air and explosive mixtures can accumulate in low spots. It may be ignited at some distance away from exposed motor spirit resulting in flashbacks.

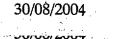
Aspiration into the lungs caused by vomiting is harmful and can be fatal.

Hazardous components include Benzene for which there is a maximum exposure limit of 5 ppm/ 16 mg m-3 (HSE Occupational Exposure Limits EH40). Benzene is listed in EH40, Appendix 9: Substances defined as Carcinogens for the purpose of the COSHH Regulations. If Benzene is present at a concentration equal to or in excess of 0.1% the Risk Phrase "R45 -May cause cancer" will apply.

CONTAINS BENZENE (CAS No. 71-43-2) : Carcinogen -Category 2.

4 FIRST AID MEASURES	
TYPE OF EXPOSURE	FIRST AID MEASURES
Ingestion	Ingestion
The swallowing of small amounts may cause nausea and diarrhoea; larger	Wash mouth out with water and give water
amounts may cause irritation and	to drink (milk if available) -get medical
drowsiness with vomiting.	advice.
	OF THE DANGER OF ASPIRATION.
Skin	Skin ^{equile}
Unlikely to cause irritation on single 🔬 🧃	Contra Co
contact. Prolonged or repeated contact	Wash skin as soon as possible with soap and water. Change contaminated clothing
of the skin and could result in dermatitis.	and launder before reuse.
ousent	Get medical advice if irritation persists.
Eyes	· ·
May appear short tarm irritation with	Eyes
May cause short-term irritation with redness and stinging.	Wash out thoroughly with large amounts of water. If redness and/ or irritation continues get medical advice.
Inhalation	
High vapour concentrations can cause irritation to eyes and mucous membranes,	Inhalation
and drowsiness leading to loss of	If inhalation of vapour causes irritation or
consciousness.	drowsiness remove to fresh air. Get medical advice if the symptoms continue.

http://www.campusoil.ie/data_sheet/motorspirits_pf.html



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5 FIRE-FIGHTING MEASURES

Extinguish with agents approved for Class B hazards (e.g. Dry Powder, Foam or Carbon

Dioxide). For small fires use CO2, Dry Powder, sand, earth.

Note -Classified Extremely Flammable. Flammability Limits between 1% and 7%.

Fires in closed or confined spaces should be tackled by trained personnel who should wear breathing apparatus.

Do not use water jets; the use of water fog should be left to experienced personnel.

6 ACCIDENTAL RELEASE MEASURES

Treat any spillage as a major fire hazard. Explosive mixtures can be formed particularly where there is poor ventilation. Vapour heavier than air and can collect in sumps and drainage systems.

Contain spillage -do not wash spillage down drain. Absorb using absorbent clay, diatomaceous clay or other suitable absorbent. May cause damage to surfaces, making them slippery.

7 HANDLING AND STORAGE

7.1 Handling

Where exposure is likely PROTECTIVE CLOTHING must be worn including impervious GLOVES and EYE PROTECTION. Ensure good ventilation at all times -classified **Extremely Flammable.**

7.2 Storage

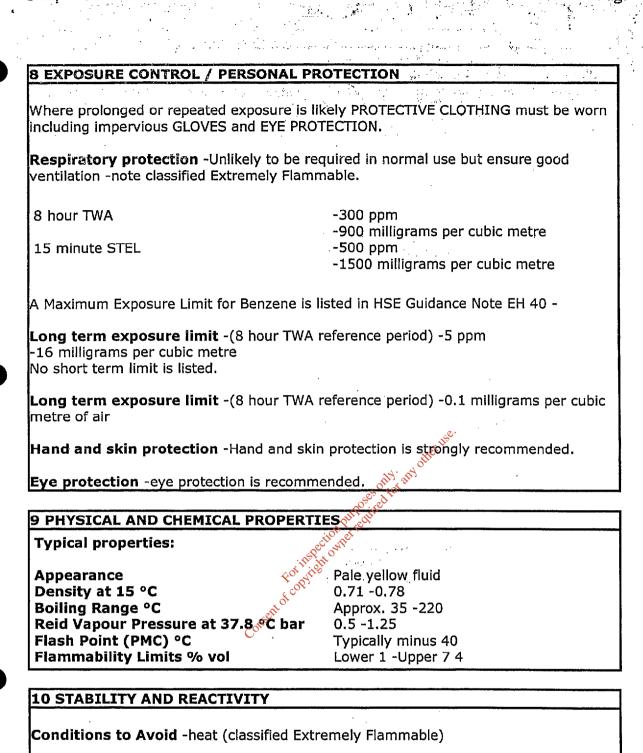
Transport, handle and store in accordance with applicable local regulations and only in labelled containers designed for this product. Ground and bond shipping container, transfer line and receiving container. Keep away from sparks, flame and other sources of ignition. Protect containers against static electricity, lightning and physical damage. Hot work (e.g. Cutting and welding) must not be carried out on or near any container used for storage of this product unless it has been made safe by purging or other suitable means.

Drums should be stored on their sides on racks preferably under cover, out of direct sunlight, in well ventilated conditions.

Other types of containers should be stored under cover out of direct sunlight, in well ventilated conditions. Care should be taken to avoid over-stacking. 3

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Materials to Avoid -may react with strong oxidising materials.

Hazardous Decomposition Products -thermal decomposition may lead to the formation of a multiplicity of compounds some of which may be hazardous. With incomplete combustion smoke and hazardous fumes and gases, including carbon monoxide may be formed.

11 TOXICOLOGICAL INFORMATION

Toxicity following a single exposure to high levels (oral, dermal, inhalation) is of a low order. Motor spirits are classified category 2 carcinogens due to their benzene content. Lead, which can accumulate in the body, is present in the BS 4040 grade. Adherence to the recommended hygiene measures will reduce any risks, which under normal conditions of use will be minimal.

http://www.campusoil.ie/data_sheet/motorspirits_pf.html

30/08/2004

12 ECOLOGICAL INFORMATION

Likely to harm aquatic organisms; may cause long-term adverse effects in the aquatic environment. Likely to evaporate readily, but any films formed on water may affect oxygen transfer and damage organisms. Expected to biodegrade slowly.

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13 DISPOSAL CONSIDERATIONS

Disposal should be carried out by incineration or as required under Local Authority Regulations. Under no circumstances should motor spirit be discharged into the public drainage system, or marine and inland waterways.

14 TRANSPORT INFORMATION

TRANSPORT CLASSIFICATION

Flammable liquid HAZCHEM Code: 3/ Y/ E Symbol: "Flammable Liquid" Diamond UN: Flammable Liquid, Class 3 UN Number (Substance Identification Number): 1203 UN Packing Group: II IMO Hazard Class: 3.1 ADR/ RID Hazard Class: 3.3b IATA: Flammable liquid Class 3, Packing Group 1 5

15 REGULATORY INFORMATION

LABELLING

Symbols: (i) Black flame on Orange Square (ii) Black skull and crossbones on Orange Square Classification: Extremely Flammable. Harmful [Contains Benzene, a Category 2 Carcinogen]. Irritant. Dangerous for the environment.

R12 -Extremely Flammable

R65 -Harmful: May cause lung damage if swallowed

R38 -Irritating to skin

R45 -May cause cancer

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

R67 -Vapours may cause drowsiness and dizziness

S2 -Keep out of reach of children

S7 -Keep container tightly closed

S16 -Keep away from sources of ignition -No smoking

S23 -Do not breathe fumes or vapour

S24 -Avoid contact with skin

S43 -In case of fire use foam/ dry powder/ CO2/ Halon -Never use water

S61 -Avoid release to the environment.

Refer to special instructions/ Safety Data sheet

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

16 OTHER INFORMATION

This data sheet has been prepared in accordance with the requirements of the Data Sheet Directive 91/ 155/ EEC.

http://www.campusoil.ie/data_sheet/motorspirits_pf.html

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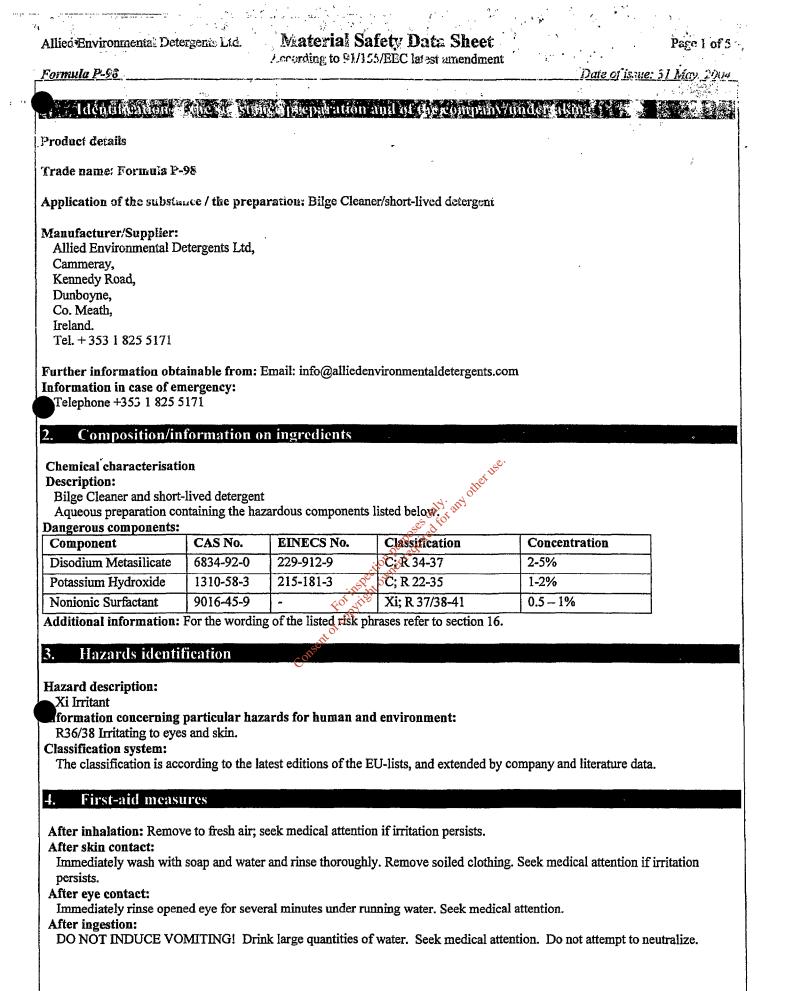
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Eire-fighting measures and the

Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire-extinguishing methods suitable to surrounding conditions.

Special hazards caused by the substance, its products of combustion or resulting gases: None

Protective equipment: Wear full protective suit and self-contained respiratory protective device when extinguishing fires. Additional information: Non-flammable.

6. Accidental release measures

Person-related safety precautions:

Isolate spillage and clean up immediately.

Refer to Sections 7 & 8 for protective measures when handling the spillage.

Measures for environmental protection:

Do not allow the undiluted product to enter sewers/surface or ground water.

Measures for cleaning/collecting:

Mop-up or absorb spill with sponge, mop, towels, or a liquid-binding material (sand, universal binders, sawdust).

Use neutralizing agent if necessary.

Dispose of contaminated material as waste according to Section 13.

Rinse off area with water.

7. Handling and storage

Information for safe handling:

Observe the general safety regulations when handling chemicals. For use by trained personnel only.

Avoid contact with the eyes, skin, clothing, and mucous membranes. Avoid inhalation of vapors. Keep away from children. Storage: Store in original container at 25°C. Keep container closed during storage. Do not puncture container.

Requirements to be met by storerooms and receptacles: No special requirements.

8. Exposure controls/personal protection 8

Ingredients with limit values that require monitoring in the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be

monitored within the workplace.

Additional information:

The lists valid during the creation of this MSDS were used as a basis for this assessment.

Personal protective equipment:

eneral protective and hygienic measures:

Wash hands before breaks and at the end of work.

Respiratory protection:

Use suitable respiratory protective device if spraying or when aerosol is generated.

Protection of hands:

Chemical resistant gloves

Material of gloves Nitrile rubber

Penetration time of glove material

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Eye protection: Safety glasses

Body protection: Chemical Resistant Apron

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<u> Date of issue: 31 May, 2004</u>

Allied, Environmental Detergents Ltd. ----- Material Safety Data Sheet

According to 91/155/EEC latest amendment

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Date of i sue: 31 May, 2004

<u>Formula P-98</u>

Physical and chemical puppentios

General Information Form: Liquid Color: Clear to Light Purple **Odor:** Characteristic Change in condition Melting point/Melting range: Boiling point/Boiling range: 99°C Flash point: Not applicable. Self-igniting: Product is not self-igniting. Danger of explosion: Product does not present an explosion hazard. Vapour pressure: 20mm Hg @ 20°C Specific Gravity: 1.042 Solubility in/Miscibility with water: Complete. pH-value(1:20 dilution): 11 +/- 0.05

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10. Stability and reactivity

tability: The product is stable in accordance with the recommended storage conditions.

faterials to be avoided:

Strong acids

Hazardous reactions: No dangerous reactions known.

Hazardous decomposition of by-products: Alkaline vapors.

11. Toxicological information

Acute toxicity:

LD/LC50 values relevant for classification: Peroral LD50 of Surfactant in Male Rat 2.33 ml/kg **Primary effects:**

After skin contact: Overexposure may cause swelling, reddening, and possible skin damage.

After eye contact: Overexposure may cause swelling, redness, or corneal damage. FOR

After ingestion:

Swallowing will lead to a corrosive effect on mucous membranes, esophagus, and gastrointestinal tract. May cause headache, nausea, vomiting, diarrhea, and abdominal pain.

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Sensitization: No sensitizing effects known.

12. Ecological information

cotoxic effects:

Of surfactant BOD % Oxygen Consumption Average 12.33% at day 5

Average 33.67% at day 10

Average 45.33% at day 20

Acquatic toxicity:

IC50	Bacterial/NA > 5000mg/L	
LC50 (48 h)	Daphnia 21.4 mg/L	
LC50 (96 h)	Daphnia 6.6 mg/L	
LC50 (96 h)	Fathead Minnow 4.8 mg/L	

Release of large quantities of the undiluted product may have a harmful effect on fish and plankton due to pH shift.

Persistence and Degradability: The organic components are biodegradable.

Remark: When used as recommended the product does not present an environmental hazard. Complies with MARPOL guidelines on control of pollution from ships.

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Material Safety Data Sheet

According to 91/155/EEC latest amendment

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Formula P-98

13. Disposal considerations

Product:

Chemical residues and remains should be routinely handled as special waste. This must be disposed of in compliance with antipollution and other laws of the country concerned. To ensure compliance we recommend that you contact the relevant (local) authorities and/or an approved waste-disposal company for information.

Packaging:

Disposal must be made in accordance with local waste management regulations.

Contaminated packaging must be disposed of in the same manner as the product or cleaned before recycling.

Non-contaminated packaging materials may be recycled. Contact your local service providers for further information. Cleaning Materials: Water.

14. Transport information

Land transport ADR/RID (cross-border)



ADR/RID class: 8 Corrosive substances. Danger code (Kemler): 80 UN-Number: 1760 Packaging group: III Hazard label 8 Description of goods: 1760 CORROSIVE LIQUID, N.O.S. (POTASSIUM HYDROXIDE SOLUTION)

Maritime transport IMDG:



IMDG Class: 8 UN Number: 1760 Label 8 Packaging group: III EMS Number: F-A,S-B Marine pollutant: No

Consent of convisition number of the consent of convisition number of the convisition of Proper shipping name: CORROSIVE LIQUID, N.O.S. (POTASSIUM HYDROXIDE SOLUTION)

ir transport ICAO-TI and IATA-DGR:



ICAO/IATA Class: 8 UN/ID Number: 1760 Label 8 Packaging group: III Proper shipping name: CORROSIVE LIQUID, N.O.S. (POTASSIUM HYDROXIDE SOLUTION) According to 91/155/EEC latest amendment .

Allied Environmental Detergents Ltd.

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Date of icsue: 31 May, 2004 - C

<u>Formula P-</u>98

5. Regulatory information

Labeling according to EU guidelines:

Code letter and hazard designation of product:



Xi Irritant

Risk phrases:

36/38 Irritating to eyes and skin.

Safety phrases:

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

37 Wear suitable gloves.

Other information 16.

This company cannot anticipate all conditions of handling and use of this product. Therefore, the company named above and all of its subsidiaries accepts no responsibility, expressed or implied, and disclaims all liability arising out of the use of this information. This company or any of their affiliates will accept no liability for damages or loss incurred from the improper handling and use of this product by itself or in combination with any other product.

Relevant R-phrases

- 22 Harmful if swallowed.
- 34 Causes burns.
- 35 Causes severe burns.
- 37 Irritating to respiratory system.
- 37/38 Irritating to respiratory system and skin.
- 41 Risk of serious damage to eyes.

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Campus Oil	
MATERIAL SAFETY DATA SHEET	GAINIPUS CIL
	Importers and Distributors of Petroleum Products
REGULAR BURNING OIL PREMIUM BURNING OIL -PARAFFIN AVTUR AVIATION FUELS	BS 2869 CLASS C2 BS 2869 CLASS C1 JET A1 & F34/ FSII
1 IDENTIFICATION OF THE SUBSTA	NCE & OF THE COMPANY / UNDERTAKING
	E SUBSTANCE OR PREPARATION:
IDENTIFICATION OF THE These products are kerosene type fuels. burners and industrial space heaters. Pr	
IDENTIFICATION OF THE These products are kerosene type fuels. burners and industrial space heaters. Pr	E SUBSTANCE OR PREPARATION: . Regular Burning Oil is used in fluid domestic remium Burning Oil is used in freestanding et A1 and F34 are aviation turbine engine fuels.
IDENTIFICATION OF THE These products are kerosene type fuels. burners and industrial space heaters. Pr flueless domestic heating appliances. Je	E SUBSTANCE OR PREPARATION: . Regular Burning Oil is used in fluid domestic remium Burning Oil is used in freestanding et A1 and F34 are aviation turbine engine fuels.
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Complex mixtures of distillate hydrocarbons mainly paraffinic, naphthenic and aromatic lin

the range C10-C28. Catalytically and thermally cracked hydrocarbons may be present. Included may be small concentrations of cetane number improvers (organic nitrates), flow improvers (ethylene vinyl acetate copolymers), a lubricity additive (long-chain ester), silicone anti-foam additives and a HM C& E marker/ dye.

3 HAZARDS IDENTIFICATION

Regular and Premium Burning Oils and Avtur Aviation Fuel are classified as flammable. Kerosines are classified as harmful due to the aspiration hazard. Prolonged and repeated skin contact can lead to irritation and dermatitis.

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FIRST AID MEASU	RES		
Ingestion			

Wash skin as soon as possible with soap and water. Change contaminated clothing

Get medical advice if irritation persists.

If inhalation of vapour causes irritation or

medical advice if the symptoms continue.

drowsiness remove to fresh air. Get

and launder before reuse.

The swallowing of small amounts is unlikely Wash mouth out with water and give water to drink. If a large amount has been to have adverse effects; larger amounts swallowed get medical advice. may cause irritation with diarrhoea and DO NOT INDUCE VOMITING BECAUSE OF THE DANGER OF ASPIRATION. vomiting.

4 FIRST AID MEASURES TYPE OF EXPOSURE

Skin

Ingestion

Unlikely to cause irritation on single contact. Prolonged or repeated contact may cause short-term irritation, de-fatting of the skin and could result in dermatitis.

_	Eyes
Eyes May cause short-term irritation with	Wash out thoroughly with large amounts of water. If redness and/ or irritation
redness and stinging.	continues get medical advice.
Inhalation	Inhalation

Fumes or vapour may cause irritation to eyes and mucous membranes, and drowsiness leading to loss of consciousness.

5 FIRE-FIGHTING MEASURES

Extinguish with Dry Powder, Foam or Water Fog. For small fires use CO2 Do not use water jets

Fires in closed or confined spaces should be tackled by trained personnel who should wear breathing apparatus.

Skin

6 ACCIDENTAL RELEASE MEASURES

Treat any spillage as a fire hazard. Spray, vapour or mist can be a potential fire or explosion hazard.

May cause damage to surfaces making them SLIPPERY.

Contain spillage -do not wash spillage down drain. Absorb using absorbent clay, diatomaceous clay or other suitable absorbent.

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7.1 Handling

Where exposure is likely PROTECTIVE CLOTHING should be worn including impervious GLOVES and EYE PROTECTION. Ensure good ventilation

7.2 Storage

Store in tanks and containers designed to contain flammable liquids and ensure storage area is not close to heat and ignition sources.

Drums should be stored on their sides on racks preferably under cover, out of direct sunlight, in well ventilated conditions.

Other types of containers should be stored under cover out of direct sunlight, in well ventilated conditions. Care should be taken to avoid over-stacking.

8 EXPOSURE CONTROL / PERSONAL PROTECTION

Where prolonged or repeated exposure is likely PROTECTIVE CLOTHING should be worn including impervious GLOVES and EYE PROTECTION.

Respiratory protection -Unlikely to be required in normal use but ensure good ventilation.

Long term exposure limit -(8 hour TWA reference period) 5 milligrams per cubic metre.

Short term exposure limit -(15 minute reference period) -10 milligrams per cubic metre.

Hand and skin protection -Hand and skin protection is strongly recommended.

Eye protection -eye protection is recommended.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance Density at 15 °C Boiling Range °C Flash Point (Abel)° C Benzene content % m/ m Clear pale yellow fluid; may be dyed. 0.72-0.82 140-300 38 min (PBO 43 min) <0.1

10 STABILITY AND REACTIVITY

Conditions to Avoid - heat (classified Flammable)

Materials to Avoid - may react with strong oxidising materials.

Hazardous Decomposition Products -thermal decomposition may lead to the formation of a multiplicity of compounds some of which may be hazardous. With incomplete combustion smoke and hazardous fumes and gases, including carbon monoxide may be formed.

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11 TOXICOLOGICAL INFORMATION

Toxicity following a single exposure to high levels of kerosines (oral, dermal, inhalation) is of a very low order. Prolonged and repeated contact with kerosines may cause drying of the skin and possibly dermatitis. Prolonged inhalation of mists may cause inflammation of the lungs.

12 ECOLOGICAL INFORMATION

Slightly toxic to aquatic life, but unlikely to persist for sufficient time to pose a significant hazard; films formed on water may affect oxygen transfer and damage organisms. Expected to biodegrade slowly.

13 DISPOSAL CONSIDERATIONS

Disposal should be carried out as stipulated in any Local Authority Regulations. Under no circumstances should kerosines be discharged into the public drainage system, or marine and inland waterways.

14 TRANSPORT INFORMATION

TRANSPORT CLASSIFICATION

Flammable liquid: Diamond Symbol HAZCHEM Code: 3/Y) UN: Flammable liquid, Class 3 (III) UN Number (Substance Identification Number): 1223 UN Packing Group: III IMO Hazard Class, 3.3 ADR/ RID Hazard Class: 3. Item 31 (c) IATA: Flammable liquid Class 3, Packing Group III.

15 REGULATORY INFORMATION

LABELLING

Symbol: Black St. Andrew's cross on orange square

Classification: Flammable; Harmful; Irritant; Dangerous for the environment

R10 -Flammable R65 -Harmful: May cause lung damage if swallowed R38 -Irritating to the skin

Rob innating to the skin

S2 -Keep out of reach of children

S23 -Do not breathe vapour

S24 -Avoid contact with skin

S43 -In case of fire use foam/ dry powder/ CO2/ Halon

Never use water jets.

S61 -Avoid release to the environment.

Refer to special instructions/ Safety Data Sheet

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

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http://www.campusoil.ie/data_sheet/kerosines_pf.html

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16 OTHER INFORMATION

Further Information can be found in various publications, a list of which may be obtained from the Health and Safety Authority of Ireland.

This data sheet has been prepared in accordance with the requirements of the Data Sheet Directive 91/ 155/ EEC.

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REGULAR BURNING OIL PREMIUM BURNING OIL -PARAFFIN AVTUR AVIATION FUEL .

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the additional infom	nation, precautions and i	instructions for use which appear on
the product label.	It is the responsibility	of the employer to ensure that all
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FIRE FIGHTING MEASURES

PRODUCTS OF COMBUSTION: OXIDES OF CARBON, HYDROGEN AND NITROGEN FLAMMABILITY LIMITS: UEL (%) n.d LEL(%) n.d NON COMBUSTIBLE AUTOIGNITION TEMP: n.d °C COMBUSTIBILITY: ALL EXTINGUISHANTS SUITABLE. **EXTINGUISHING AGENTS:** WEAR SELF-CONTAINED BREATHING APPARATUS PRECAUTIONS:

PCP_LTD

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ACCIDENTAL RELEASE MEASURES 06

PERSONAL: SPILLAGE AREA MAY BE SLIPPERY OTHER: DO NOT ALLOW SPILLED MATERIAL TO ENTER STORM DRAINS OR SURFACE WATERWAYS CLEANUP: ABSORB USING SAND OR EARTH

HANDLING AND STORAGE

USE PROTECTIVE EQUIPMENT AS DETAILED IN SECTION HANDLING INSTRUCTIONS:

08 STORAGE TEMPERATURE: STORAGE CONDITIONS: OK MATERIALS:

MINIMUM 0 °C MAXIMUM 25 °C IN A COOL DRY PLACE NOT OK: PLASTICS

MILD STEEL

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EXPOSURE CONTROL PROTECTION

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EXPOSURE	PREVENTIVE ENGINEERING	PERSONAL PROTECTION
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SKIN	FORDALIS	GOOD INDUSTRIAL HYGIENE IS
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EYES	Consento	AVOID EYE CONTACT
LILS	Con	AVOID ETE CONTACT
INGESTION		DO NOT INGEST
INHALATION		NOT APPLICABLE
ADDITIONAL I	NFORMATION:	REFER TO SECTION 2 AND HSE GUIDANCE
		NOTE EH40 TO ESTABLISH CURRENT
		OEL/MEL VALUES

PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: RED MOBILE LIQUID ODOUR: PLEASANT, CHERRY FRUIT RELATIVE DENSITY: 1.015 (@ 20 ° C) ph (NEAT):8.0 ph (10% SOLUTION):7.5 ~0°C BOILING POINT: n.d °C FREEZING POINT: EVAPORATION RATE (@ 20 °C; BUTYL ACETATE=100); n.d. FLASH PT: N/A METHOD: N/A °C VAPOUR DENSITY (@ 20 °C; AIR=1)n.d VAPOUR PRESSURE: n.d at MISCIBILITY-WATER: MISCIBLE IN ALL PROPORTIONS OTHER: N/A OTHER PHYSICOCHEMICAL DATA:

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Issue Date 30/08/2004 AiroNaut SBC CHIP: Complies CPL: Supersedes Page 3 of 3

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AiroNautTM

PCP LTD

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Technical Information Sheet – AiroNaut[™] Odour Destructive Reagent (ODRs)

Description

AiroNautTM is a perfect partner for Probe Atomising Units or other misting systems. Unlike normal odour control additives AiroNautTM does not simply mask a nasty smell with a pleasant one. Instead, it's sophisticated science means it combines chemically with the odour molecules and destroys them. AiroNautTM uses special surfactants and odour destructive reagents (ODRs) to absorb the organic substances and neutralise them completely. The ODRs employed within the AiroNautTM formulation destroy any pathogens contained in the water supply. Disinfecting the water supply helps reduce the risk of contamination of pathogens such as Legionella. AiroNautTM is not classified as hazardous under CHIP/COSHH.

Main Uses

For the reducti	ion of malodour at the following facili	ities: 😞	
	 Transfer Stations 	•Petrochemicals	
	 Sewage Treatment Works 	•Composting	
	•Landfills	Foundries	
	•Chemical Plants	Hospitals	
Defeative an	and a put of		
Effective ag			
AiroNaut ¹ ^m w	ill quickly neutralise both simple & co	-	
	•Hydrogen Sulphide	•Skatole	
	•Ammonia	•Sulphur dioxide	
	•Amines	•Acetaldehyde	
	•Hydrogen Sulphide •Ammonia •Amines •Mercaptans	•Cadaverine	
Main Advan	utages		
	•100% Bio-degradable	•Odourless or Flavoured	
	•Environmentally friendly	•Sterilisation of water supply	
	•Safe under CHIP/COSHH	•Non-acidic or caustic	
	 Absorbs fugitive emissions 	•Harmless to humans/animals	
Application			
-	•Headspace spraying over tanks, lago	ons, skip areas etc	
	•Dilution range from:-		
	"100 parts water: 1 part Airol	Vaut TM "	
	up to "500 parts water: 1 part		
	•Use with Probe Atomisers or foggin		
		-5 H022105	
Awards & Recognition			
	•DTI Innovation Award	•North East Business Award	
	•Trademarked		
		•	

5 Serpentine Ave, Ballsbridge, Dublin 4 Tel: +353 1 668 4400 Fax: +353 1 668 4551 E-mail: info@pepgroup.ie



working for a cleaner environment

Oxigen Environmental Ltd.

Waste Licensing Waste Recovery/Disposal Activities (Other than Landfill Sites)

Section E6

Plant

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E.6 <u>PLANT</u>

Plant used at the Oxigen Environmental Ltd. site include:

- Weighbridge Avery J105, specification attached
- Harris waste baler (HRB 45D), manufacturers specifications attached
- Sennebogen 821 waste loader
- Terberg shunter tractor
- Loadall Teleporter

Details of the specifications of this plant is given in this attachment. In total 5 on-site plant are parked overnight in yard, such as shunter tractors etc.. All waste vehicle, such as trucks and vans will be stored on other Oxigen Environmental Ltd. sites.

Industrial Products

J105 Weighbridge



The champion heavyweight, J105 - on solid foundations

The J105 weighbridge has been specially designed for flush mounting in the road surface, making it easily accessible from all sides. Its strut (free-motion) assembly enables even non-weighed vehicles to cross it in any direction - ensuring that normal, continuous traffic flow is always maintained.

Concrete platform

Designed by specialist structural engineers Ove Arup, the reinforced, pre-stressed concrete structure is factory cast under strict quality control and delivered complete to site. It provides an immensely strong platform, which unlike steel weighbridge structures, is unaffected by corrosion, eliminating the need for frequent scraping and painting.

A lifetime of performance

The four stainless steel compression load cells which support the J105's platform are engineered to withstand many years of heavy duty usage and to provide the high degree of accuracy essential to weighbridges.

These load cells are also fitted as standard with surge arrestors - the most effective system of lightning protection. All the cells are made, tested and calibrated in the U.K. by Avery Berkel in one of the most advanced departments of its type in the world.

Adaptable

Available in capacities ranging from 40,000 kg to 60,000 kg and five platform sizes up to 18 m long by 3 m wide, the J105 range is ideal for a host of applications.

Tough and resilient

The J105 features in-built precision steel restraint which gives full protection against heavy braking and shock loading. In addition, the strut (free-motion) units ensure maximum protection from shear forces, which are the major cause of damage to unprotected load cells.

Indicator options

The J105 can be linked to the latest Avery Berkel indicator systems, data systems and printers to provide the most versatile and advanced weighbridge system available.

Click here to contact us

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SCHEDULE 1 BALER SPECIFICATION

Sec. 1

PRO	opos/	L SPECIFICATION:	20030101	
AUT	roma1	TIC BALING PRESS MODEL:	HRB-1545D, Me	etric (50HZ.)
GEI	VERAL	LAYOUT DRAWING:	4A-11111	
APF	PLICAT	FION:		Shredded or unshredded solid waste material, paper stock, secondary fibers.
A	CAP	ACITY AND RATING:		
	A1	PRESS BOX DIMENSIONS:		1397 mm wide x 978 mm deep x 4727 mm long (55" wide x 38-1/2" deep x 186" long)
	A2	CHARGING BOX OPENING	:	1320 mm wide x 2794 mm long (52" wide x 110" long)
	A3	HOPPER OPENING:	action putper	1879 mm wide x 3353 mm long (74" wide x 132" long)
	A4	COMPRESSION CHAMBER	SIZE Martin or	1473 mm wide x 1016 mm deep x 1422 mm long (58" wide x 40" deep x 56" long)
	A5	APPROX. EXPANDED BAL		1625 mm wide x 1092 mm deep x 1574 mm long (64" wide x 43" deep x 62" long)
	A6	BALE WEIGHT: (AVERAGI	E)	1632-2086 kgs. (3600-4600 lbs.) Solid Waste material with average of 25% moisture.
	A7	BALE VOLUME:	•	2.13 cubic meters, (75 cubic ft.)
	A 8	APPROX. EXPANDED BAL	E VOLUME:	2.77 cubic meters, (98 cubic ft.)
	A9	BALING CYCLE: *		1. Approx 100 seconds (Up to36 cycles/hr) Without door
				2. Approx 120 seconds (Up to30 cycles/hr) With door

A10 APPROX. HOURLY CAPACITY: *

....

1. 58.1 – 75.1metric tons/hr w/out door (64-82 short tons/hr)

2. 48.9 – 62.5 metric tons/hr. w/door (54-68 short tons/hr)

2

**NOTE: Performance Rates, Production Rates, Bale Weights. Bale Densities, are subject to Material Input Density Feed Rates, and other Variables of Production outside the control of HWMG, Inc..

B COMPONENTS:

B1 ELECTRIC MOTORS:

B1.1 MAIN SYSTEM:

B1.2 COOLER SYSTEM:

B1.3 STRAPPER:

Two (2) 150 HP, 1500 RPM, 415 volt, 3ø, 50 Hertz, protected enclosure.

One (1) 20 HP, 1500 RPM, 415 volt, 3ø, 50 Hertz, protected enclosure.

One (1) 10 HP, 1500 RPM, 415 volt 3ø, 50 Hertz, protected enclosure.

B2 ELECTRIC CONTROL SYSTEM:

- B2.1 One (1) NEMA XII control panel to include star delta motor starters for 380 to 600 volt power with overload protection, circuit breaker, control circuit transformer and cycle control system wired to terminal strips. Special starting requirements are available at additional cost.
- B2.2 One (1) operator's station enclosure to include off tight control switches and signal lights, wired to terminal strips.
- **B3 HYDRAULIC SYSTEM:**
 - **B3.1 MAIN PUMPS:**

2710 LPM, with 310 bar Peak baling pressure. (716 GPM, with 4500 p.s.i.

B3.2 COOLER PUMP:

- B3.3 STRAPPER PUMP:
- One(1) @ 454 LPM (120 GPM)

One (1) @ 45 LPM @ 103 bar, (12 GPM @ 1500 p.s.i.)

B3.4 VALVES: Harris or equal

B3.4.1 Individual relief valves protect each pump from overload pressure.

St cor

B3.4.2 Directional valves are electrically controlled and hydraulically operated.

B3.5 CYLINDERS: Harris or equal

B3.5.1	FIRST COMPRESSION:	406 mm (16") bore, 410 m tons (452 short tons)
B3.5.2	BALE EJECTOR:	305 mm (12") bore, 154 m tons (170 short tons)
B3.5.3	DOOR:	203 mm (8") bore, 32.7 m tons (36 short tons)

PROPOSAL SPECIFICATION- HRB-1545D

Page 2 of 4

- COMPONENTS (Continued)
 - B4 FILTERING AND COOLING SYSTEM:
 - B4.1 Filtering is by replaceable cartridge type micronic filters.
 - B4.2 Standard cooling system is oil to air heat exchanger.
 - B5 AUTOMATIC TIE-OUT: L & P. Wire-Tie System Model 331 Series strapping head and system. Designed for use with U. S. Wire-Tie System 11 gauge SUPER HI-TEN round steel strapping.

C OPERATION:

B

- C1 There are three modes of operation: Manual; automatic repeat, standard; and automatic repeat with bale door. Manual operation is primarily for set up and maintenance purposes. Automatic repeat, both standard and with bale door, is normally synchronized with conveyor or other automatic methods of charging material and handling finished bales.
- C2 The baling sequence is as follows: Loose material brought to the machine by conveyor or overhead surge bin may be charged on top of the first compression ram if it is forward, or directly in the box if the ram is fully retracted. Loose material which is charged only on top of the first ram falls into the box automatically as a function of the baling cycle.

At the start of an automatic cycle, the bale door is closed. The first compression ram extends fully forward. Any material extending above the ram is sheared off and is mixed with the next charge of material. The ram continues to compress and retract until a sufficient charge to form a bale is pushed into the compression chamber. The bale door opens and the ejector ram indexes the bale through the tie-out chamber. Both rams retract, the door closes, and one baling cycle is complete.

- C3 A density selector switch is provided at the operator's control station to change the pressure sensing range in selected increments to compensate for material density.
- **D** CONSTRUCTION:
 - D1 The baler is designed for flat surface, reinforced slab installation.
 - D2 Major sub-assemblies are heavy plate and structural weldments of cellular construction, stress relieved before machining to design dimensions.
 - D3 Final assembly is bolted and keyed.
 - D4 The entire press box and ram wear surfaces are fitted with bolt-on wear plates of heat treated alloy steel.
 - D5 All liner plates are sectional design for ease of replacement.
 - D6 All rams are box type steel weldments, stress relieved and machined to design dimensions.
 - D7 Shear knives are securely seated in press frame and first compression ram. All four edges of knives are designed for shearing.
 - D8 All pipe is electrically welded and securely anchored.

PROPOSAL SPECIFICATION - HRB-1545D

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- CONSTRUCTION (Continued)
 - D9 Pipe flanges are steel, bolted type, with "O" ring gaskets.
 - D10 The baler is completely assembled, operated and tested before shipment.
 - off Standard paint is machinery enamel over primor coat.
 - D12 SHIPPING WEIGHT: 75 m tons (83 short tons), approx.

E GENERAL:

- E1 Layout and foundation prints show above grade dimensions and conditions. Below grade soil conditions, piers, piling, footings and associated components are matters of local determination for which our company can accept no responsibility.
- E2 Our company's technical services are available on a free advisory basis to assist in determining the location and material flow conditions best suited to utilize the high production of our equipment.
- E3 This proposal also includes the services of a qualified installation specialist for two (2) eighthour working days. He will place the baler in operation and instruct your operator in recommended operating and maintenance procedures. (Transportation and sustenance outside the continental United States is for the purchaser's account.)
- E4 Harris will not accept back charges in connection with installation or start-up of this machine unless prior approval is obtained in writing from authorized Harris personnel.
- E5 Harris will not accept any charges for work performed on this machine during contracted warranty period unless prior approval is obtained in writing from authorized Harris personnel.
- F EXPENSES ASSUMED BY THE PURCHASER TO COMPLETE THE MACHINE INSTALLATION:
 - F1 Freight from Port of Dublin to destination.
 - F2 Preparation of foundation.
 - F3 Unloading and assembling of the baler.
 - F4 Wiring from power source to electric control panel.
 - F5 Furnishing all fuses.
 - F6 Furnishing approximately 7600 Liters (2000 gallons) of hydraulic oil for the hydraulic system.
 - F7 STRAPPING: L & P Wire-Tie System 11 gauge SUPER HI-TEN round steel strapping for use with Model 331 series head. (Alternate L & P strappers are available)

G LIMITED WARRANTY:

This machine is covered under Harris warranty (HWMG, Inc.990101W-Std) which is attached.

PROPOSAL SPECIFICATION - HRB-1545D

Page 4 of 4

SCHEDULE 2 DIVERTER LOADER SPECIFICATION

PROPOSAL SPECIFICATION: 20030102

MODEL: HRB-1545D BALE DIVERTER WITH DOUBLE LOADER

GENERAL LAYOUT DRAWING: 4A-11178

APPLICATION:

- A APPROXIMATE DIMENSIONS:
 - A1 DIVERTER:
 - A1.1 DIVERTER RAM:
 - A1.2 DIVERTER TABLE:
 - A2 LOADER #1:
 - A2.1 LOADER RAM:
 - A2.2 LOADER TABLE:
 - A3 LOADER #2:
 - A3.1 LOADER RAM

A3.2 LOADER TABLE:

A4 DIVERTER/LOADER TIME

A4.1 TIME IN ADDITION TO NORMAL BALING CYCLE FOR DIVERTING OF TWO BALES AND CYCLING LOADER ONCE PER BELOW:

A4.2@LOADER #1 POSITION 77 seconds

A4.3@LOADER #2 POSITION 101 seconds

A4.4 LOADER OVERTRAVEL TIME 12 seconds FOR FINAL PUSH ONTO TRAILER

**NOTE: Performance Rates, Production Rates, Bale Weights. Bale Densities, are subject to Material Input Density Feed Rates, and other Variables of Production outside the control of HWMG, Inc..

Divert two (2) bales in front of Loader Ram(s). Loader Ram(s) will position bales onto transport vehicles.

60" wide x 120" travel to Loader #1 60" wide x 246" travel to Loader #2

70" wide x 246" long

85" wide x 78" normal travel 125" full travel

86" wide x 72" long

85" wide x 78" normal travel 125" full travel

86" wide x 72" long

COMPONENTS:

B

B1 HYDRAULIC/ELECTRICAL SYSTEM:

Integral with baler system

7" bore, 26/35 tons

7" bore, 38 tons

4" bore, 12 tons

- B2 CYLINDERS:
 - B2.1 DIVERTER:
 - B2.2 LOADER(2):

B2.3 BALE FLIPPER(2):

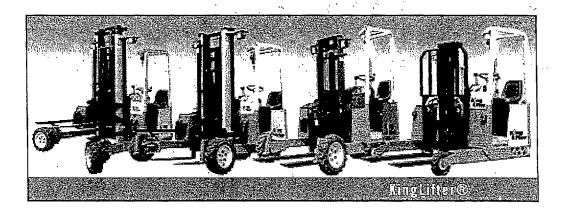
- C OPERATION:
 - C1 The baling cycle has ejected the first bale onto the diverter table. The bale is rolled 90 degrees as the baling cycle resumes. The bale diverter ram diverts the bale onto the loading table. Bale diverter ram retracts. The second ejected bale is rolled and diverted onto the loading table. The loader ram transfers the two bales onto the transport vehicle. The loader ram and diverter ram both retract. One entire sequence of the baler/diverter/loader is complete. The loader ram may be manually operated to push final bales completely onto the transport vehicle. The above sequence is repeated for a pre-determined number of cycles for either and or both loaders based on operator input.
- **D** CONSTRUCTION:
 - D1 Major sub-assemblies are heavy plate and structural weldments of cellular construction, stress relieved before machining as required to design dimensions.
 - D2 Final assembly is welded/bolted and/or keyed.
 - D3 All rams are steel weldments, stress relieved and machined as required to design dimensions.
 - D4 All pipe is electrically welded and securely anchored.
 - D5 Pipe flanges are steel, bolted type, with "O" ring gaskets.
 - D6 The Diverter/Loader is completely assembled, operated and tested before shipment.
 - D7 Standard paint is machinery enamel over primer coat.
 - D8 SHIPPING WEIGHT: 50 tons, approximately
- E EXPENSES ASSUMED BY THE PURCHASER TO COMPLETE THE DIVERTER/LOADER INSTALLATION:
 - E1 Freight from Port of Dublin to destination.
 - E2 Preparation of foundation which includes pit for trailer docking..
 - E3 Unloading and assembling of the Diverter/Loader.
 - E4 Reconnection of wiring between junction boxes.
- F LIMITED WARRANTY: This machine is covered under Harris warranty (HWMG, Inc.990101W-Std) which is attached

PROPOSAL SPECIFICATION – HRB-1545D DIVERTER W DOUBLE LOADER

Page 2 of 2

Terberg KingLifter® the transportable forklift for all uses





KingLifter the truckmounted forklift for all uses. Adaptable to several hoist systems.

The KingLifter offers:

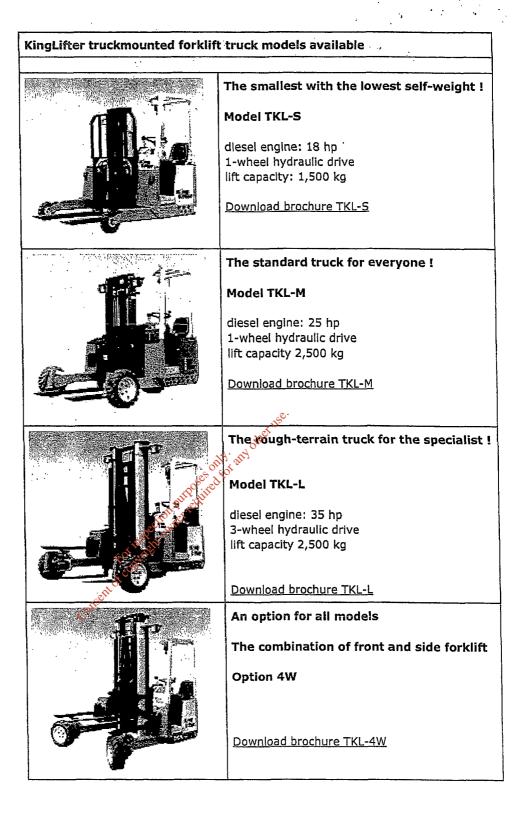
- A loading and unloading system for your vehicle
- Independent transport
- Up to 30% time saving
- Up to 35% increased sales per truck possible
- A means to provide service when and where needed
- Stronger ties with your customers
- Less risk of damaging your freight
- Better employment conditions for your driver

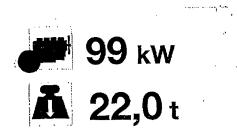
Successfully used in many settings:

- Transporting beverages
- Transporting building materials
- Agriculture and horticulture
- Chemicals and waste collection
- Petrochemical products
- Public works
- Transporting glass
- Transporting steel
- Internal transport
- Long loads

Additional Information:

- The machines are available in three basic dimensions
- One-wheel or three-wheel drive for rough terrain or ramps
- Also available as four-way for long loads
- All models are available with retractable front legs
- A complete range of lifting masts with various capacities and lifting heights
- A wide range of wheels and tyres
- Power steering, parking brake and complete lighting system supplied as standard
- Low weight
- The driver is seated completely within the contours of the machine
- Complies with all EU Directives and Regulations
- Stainless steel plating
- Height-adjustable seat and floor
- Seat within the contours of the frame
- Chainless masts (maintenance free)
- All parts standardised
- Special preferences negotiable





821 M Serie C

green line Materialumschlaggerät green line Materials Handling Machine

Vorläufig Fortige preliminary Marchard







Action radius up to 13.2 m Engine output up to 99 kW (135 HP) State of the art load-sensing hydraulic-system Robust, very service-friendly design Very low noise emission

Specifications



with direct injection, water cooled. Output as per DIN/ISO: 99 kW (135 HP) at 2200 rpm.

Hydraulic driven ventilator, from the diesel engine seperated water- and intercooler.

counter rotation mode for the ventilator cleaning the cooler (optional).

y air filter with cyclone prefilter, safety element and pollution indicator.

oscillating axle.

Excellent design,

particle filter.

malfunctions.

valves

<u>E</u>Ľ

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Fuel tank capacity: 300 I Electric system 24 Volt 2 highly efficient cold starting batteries.



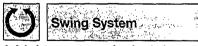
Load-sensing hydraulic-system. The variable displacement piston pumps are equipped with pressure cut-off function and with a energy-saving flow-ondemand control. Through the independent and proportional feed of the oil flow all working functions can be operated parallel, independent and very precisely. High efficiency through well designed hydraulic valves and lines. Individual and precise swing operation.

Flow rate 1 x 310 l/min. Working pressure max. 350 bar Hydraulic tank capacity 250 l.

draulic oil filter with long time change interval.

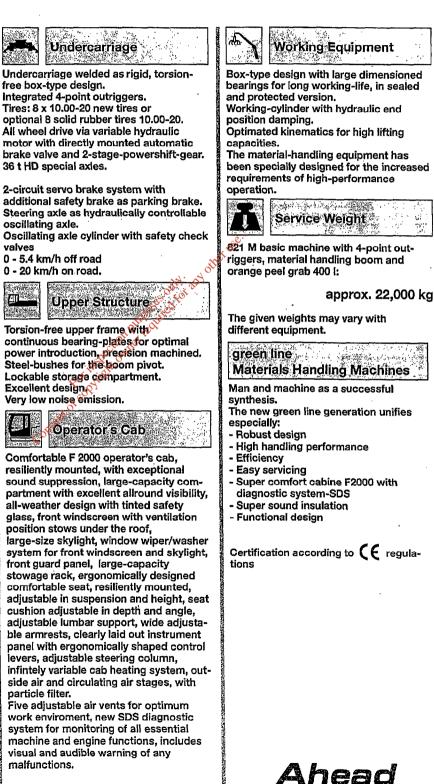
Healthy oil temperature through high dimensioned hydraulic oil cooler. Central service board for easy and rapid check of complete hydraulicsystem.

Servo joy sticks for operating movements and additional functions as per ISO-System.



Axial piston motor, spring-loaded hydraulically releasable multible-disk brake, planetary gear and pinion shaft. Large dimensioned swing bearing. Swing speed 0 - 8 rpm, infinitely controllable.

Hydraulic motor with integrated hydraulic brake valves for reduction of wear in braking system to a minimum,



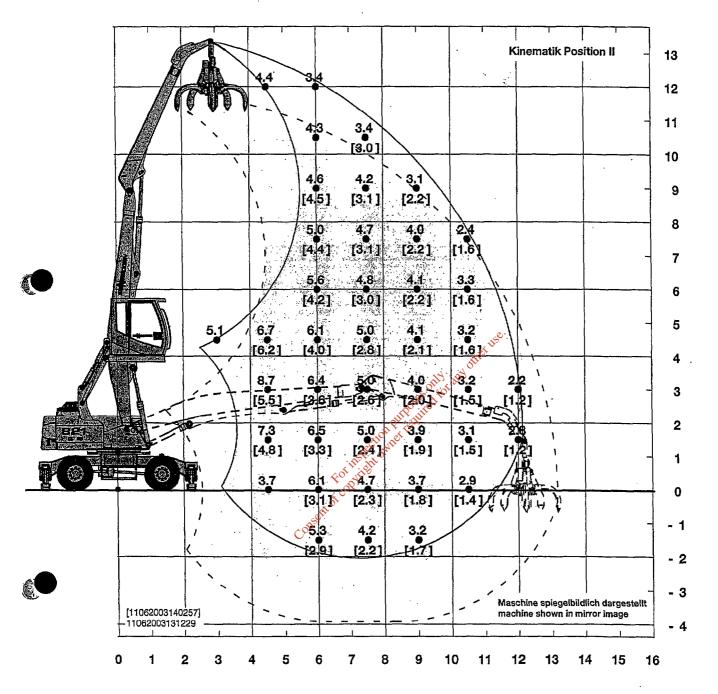


through

Innovation







821 M

🖥 Unterwagen:

Kompaktausleger:

Ladestiel:

- Kinematikposition:
 Kabine:
- ll um 2700 mm hochfahrbare Kabine Typ C 270

MP21, 4-Punkt-Abstützung

Bereifung 8 x 10.00-20

7,1 m

5,1 m

821 M

Undercarriage

Compact boom:
C

MP21, 4-point outriggers tires 8 x 10.00-20 7.1 m 5.1 m II 2700 mm elevating cab type C 270

Load chart

Notes:

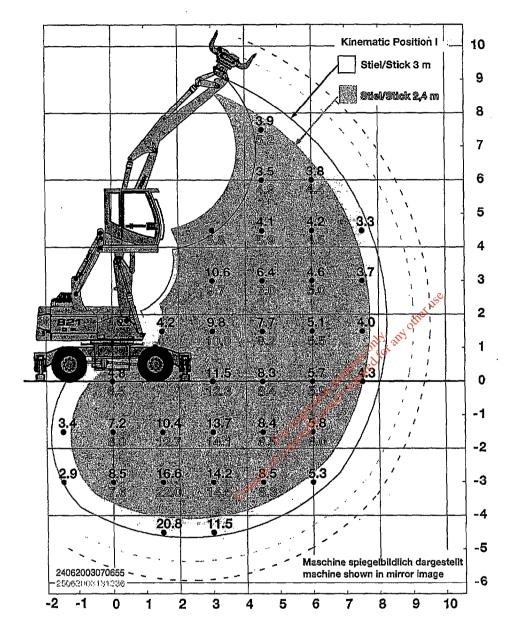
ting capacities are stated in metric tons. Indicated loads are based on ISO 10567 and do not exceed 75 % of tipping and 87 % of hydraulic capacity, ine on firm, level supporting surface. Loads valid for 360° on outriggers supported.

ds in brackets [...] are valid 360° free on wheels.

Working equipment like orange peel grab, magnet plate etc. are part of the lifting capacity.







÷,

821 M

Interwagen:

3 Stiel: S Kinematic position: Kabine:

MP21, 4-Punkt-Abstützung Bereifung 8 x 10.00-20 Mydraulisch verstellbarer 3 teiliger Ausleger 2,4m / 3m mit Umlenkmechanismus um 2700 mm hochfahrbare Kabine Typ C 270

821 M

🕅 Undercarriage MP21, 4-point outriggers tires 8 x 10.00-20 M hydraulically adjustable 3-piece boom Stick: 2.4m / 3m with reversing mechanism Kinematic position: 🗊 Cab: 2700 mm elevating cab type C 270

Load chart

Notes:

ng capacities are stated in metric tons. Indicated loads are based on ISO 10567 and do not exceed 75 % of tipping and 87 % of hydraulic capacity. ine on firm, level supporting surface. Loads valid for 360° on outriggers supported.

Is in brackets [...] are valid 360° free on wheels. Working equipment like orange peel grab, magnet plate etc. are part of the lifting capacity.

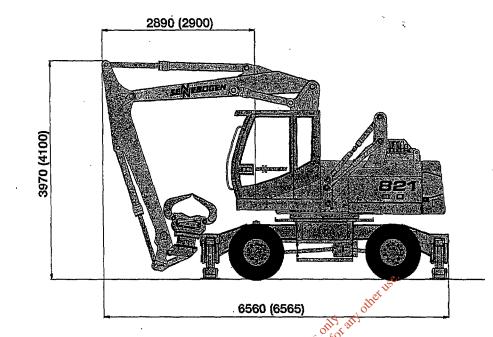
With attached reversing mechanism, the rated loads have to be reduced by approx. 250 kg.

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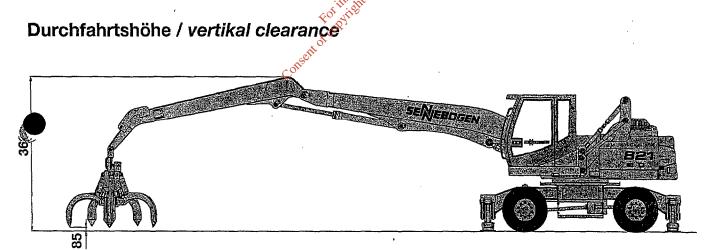




Straßenfahrt / road travel



Die angegebenen Maße gelten für Stiel 2,4 m, die Maße in Klammern () für Stiel 3 m The dimensions are valid for Stick 2,4 m, the dimensions in Brackets () are valid for Stick 3 m



Ausleger / Boom 6,4 m, Stiel/Stick 4,8 m







