

EPA Application Form

4. Activity and Capacity

4.6.2 - Raw Materials, Intermediates and Products - Attachment

Organisation Name: *

Arran Chemical Company Limited

Application I.D.: *

LA004589

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4. Activity and Capacity

4.6. Raw Materials, Intermediates and Products

Details of Process related Raw Materials, Intermediates, Products, etc., used or generated on the site *

Complete the table below for all process related raw materials, intermediates, products, etc., used or generated on the site **Note 1** - See notes below table for further information

Note: Add additional rows in to this table if required. (Please copy the existing formatting into added rows).

Ref. No. or Code	Material/ Substance ⁽²⁾	CAS Number	Danger Category ⁽³⁾	Amount Stored (tonnes)	Annual Usage (tonnes)	Nature of Use	Hazard Statement ⁽⁴⁾	Odour		
								Odourous Yes/No	Description	Threshold µg/m3
1	(+)-2-Amino-1-butanol*	13054-87-0	Irritant, Toxic to Aquatic	1-10	1-10	Raw Material	H302, H314, H400	Yes	Amine Like	No Data Available
2	(+)-2-Aminobutane	13952-84-6	Irritant, Toxic to Aquatic	<1MT	<1MT	Raw Material	H225, H302, H332, H314, H400	Yes	Amine Like	No Data Available
3	(+)-Epichlorohydrin	106-89-8	Irritant	<1MT	<1MT	Raw Material	H331, H314, H317, H350	No	No Data Available	No Data Available
4	(D)-(-)-Mandelic Acid*	611-71-2	Irritant	1-10	1-10	Raw Material	H318	No	No Data Available	No Data Available
5	(D)-(-)-Tartaric Acid*	147-71-7	Corrosive	1-10	1-10	Raw Material	H318	No	No Data Available	No Data Available
6	(L)-(+)-Mandelic Acid*	17199-29-0	Corrosive	1-10	1-10	Raw Material	H290	No	No Data Available	No Data Available
7	(L)-(+)-Tartaric Acid*	87-69-4	Corrosive	1-10	1-10	Raw Material	H318	No	No Data Available	No Data Available
8	(R)-2-Amino-1-butanol*	5856-63-3	Irritant	1-10	1-10	Raw Material	H302, H314	No	No Data Available	No Data Available
9	(S)-3,5,5-Trimethylpyrrolidin-2-one	14482-00-9	Irritant, Toxic to Aquatic	1-10	1-10	Raw Material	H402, H412	No	No Data Available	No Data Available
10	1-(2-Chloroethyl)pyrrolidine Hydrochloride	7250-67-1	Irritant	1-10	1-10	Raw Material	H315, H319, H335	No	No Data Available	No Data Available
11	1,1-Dichloroethene	75-35-4	Carcinogenic	<1MT	<1MT	Raw Material	H224, H332, H351	Yes	Sweet	No Data Available
12	1,2-Diaminocyclohexane*	694-83-7	Corrosive	1-10	1-10	Raw Material	H314	Yes	Amine Like	No Data Available

Raw Materials, Intermediates and Products cont...

Ref. No. or Code (repeated)	Pollutants (Tick and specify Group/Family Number)				Controlled Substances REACH SVHC ⁽⁶⁾	Relevant hazardous substance? ⁽⁷⁾ Yes/No
	EC EO (Surface Waters) Regulations 2009		EC EO (Groundwater) Regulations 2010			
	Specific pollutants	Priority (hazardous) substances	Hazardous ⁽⁵⁾	Non- hazardous ⁽⁵⁾		
1	No	No	N/A	N/A	No	No
2	No	No	Undetermined	Undetermined	No	Yes
3	No	No	Yes	No	No	No
4	No	No	No	No	No	No
5	No	No	N/A	N/A	No	No
6	No	No	No	No	No	No
7	No	No	N/A	N/A	No	No
8	No	No	No	No	No	No
9	No	No	No	No	No	Yes
10	No	No	N/A	N/A	No	No
11	No	No	Yes	No	Yes	No
12	No	No	N/A	N/A	No	No

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								Odourous Yes/No	Description	Threshold µg/m3
13	1,4-Dioxane	123-91-1	Flammable, Carcinogenic, Irritant	<1MT	<1MT	Raw Material	H225, H319, H335, H351	Yes	Petroleum	No Data Available
14	1'-Acetonaphthone*	941-98-0	Harmful	1-10	10-100	Raw Material	H302	Yes	Aromatic	No Data Available
15	1-Bromo-3-chloro-2-methylpropane*	6974-77-2	Irritant	10-100	10-100	Raw Material	H319	Yes	Pungent	No Data Available
16	1-Bromo-3-chloropropane*	109-70-6	Harmful, toxic, Harmful to Aquatic Life	10-100	10-100	Raw Material	H302, H331, H412	Yes	Sweer	No Data Available
17	1-Bromopropane	106-94-5	Reproductive Toxicity, Irritant	<1MT	<1MT	Raw Material	H335, H336, H360, H373	Yes	Pleasant	No Data Available
18	1-Butanol	71-36-3	Irritant	1-10	1-10	Raw Material	H226, H302, H315, H318, H335, H336	Yes	Alcohol Like	No Data Available
19	1-Heptane (99%)	142-82-5	Corrosive, Toxic to Aquatic	10-100	<1	Raw Material	H304, H315, H410	Yes	Petroleum	No Data Available
20	1-Hexane	110-54-3	Irritant	<1MT	<1MT	Raw Material	H335+H336, H361, H373, H411	Yes	Petroleum	No Data Available
21	1-Propanol*	71-23-8	Irritant	1-10	1-10	Raw Material	H225, H318, H336	Yes	Alcohol Like	No Data Available
22	2,5-Diphenyl-1,4-benzoquinone	844-51-9	Irritant, Toxic to Aquatic	<1MT	<1MT	Raw Material	H302, H317, H400	No	No Data Available	No Data Available
23	2-Amino-1-butanol*	96-20-8	Corrosive, Harmful to Aquatic Life	1-10	1-10	Raw Material	H302, H314, H400	Yes	Amine Like	No Data Available
24	2-Butanol	78-92-2	Irritant	1-10	1-10	Raw Material	H226, H319, H335, H336	Yes	Sweer	No Data Available
25	2-Chloroacrylonitrile	920-37-6	Irritant	<1MT	<1MT	Raw Material	H300+H310+H330, H314, H334, H350,	No Data Available	No Data Available	No Data Available

Raw Materials, Intermediates and Products cont...

Ref. No. or Code (repeated)	Pollutants (Tick and specify Group/Family Number)				Controlled Substances REACH SVHC ⁽⁶⁾	Relevant hazardous substance? ⁽⁷⁾ Yes/No
	EC EO (Surface Waters) Regulations 2009		EC EO (Groundwater) Regulations 2010			
	Specific pollutants	Priority (hazardous) substances	Hazardous ⁽⁵⁾	Non- hazardous ⁽⁵⁾		
13	No	No	N/A	N/A	No	No
14	No	No	N/A	N/A	No	Yes
15	No	No	N/A	N/A	No	No
16	No	No	N/A	N/A	No	Yes
17	No	No	Yes	No	Yes	No
18	No	No	No	No	No	No
19	No	No	No	No	No	No
20	No	No	No	No	No	Yes
21	No	No	No	No	No	No
22	No	No	No	No	No	Yes
23	No	No	N/A	N/A	No	Yes
24	No	No	Undetermined	Undetermined	No	No
25	No	No	No	No	No	Yes

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Ref. No. or Code	Material/ Substance ⁽²⁾	CAS Number	Danger Category ⁽³⁾	Amount Stored (tonnes)	Annual Usage (tonnes)	Nature of Use	Hazard Statement ⁽⁴⁾	Odour		
								Odourous Yes/No	Description	Threshold µg/m3
26	2-Chlorobenzaldehyde	89-98-5	Corrosive	1-10	1-10	Raw Material	H314	No	No Data Available	No Data Available
27	2-Mercaptoethanol	60-24-2	Irritant	<1MT	<1MT	Raw Material	H315, H317, H318, H373, H410	Yes	Stench	No Data Available
28	2-Methyltetrahydrofuran	96-47-9	Flammable, Corrosive, Irritant	1-10	1-10	Raw Material	H225, H302, H315, H318	No	No Data Available	No Data Available
29	2-Nitropropane	79-46-9	Irritant, Toxic to Aquatic	<1MT	<1MT	Raw Material	226, 302, 331, 341, 350, 412	Yes	Mild	No Data Available
30	3-Bromobenzytrifluoride*	401-78-5	Flammable, Irritant	1-10	1-10	Raw Material	H226, H319	No	No Data Available	No Data Available
31	3-Chloro-2-methylpropene	563-47-3	Irritant, Toxic to Aquatic	<1MT	<1MT	Raw Material	H225, H302+H332, H314, H317, H411	No	No Data Available	No Data Available
32	3-Cyclohexene-1-carboxylic Acid	4771-80-6	Irritant	1-10	1-10	Raw Material	H312, H314	No	No Data Available	No Data Available
33	4-(4-Hydroxyphenyl)-2-butanone (Raspberry Ketone) (RM)*	5471-51-2	Irritant	1-10	1-10	Raw Material	H302	Yes	Fruity	No Data Available
34	4-Acetamidophenol	103-90-2	Toxic	1-10	1-10	Raw Material	H302, H315, H317, H319, H335	No	No Data Available	No Data Available
35	4-Aminophenol	123-30-8	None	1-10	1-10	Raw Material	None	No	No Data Available	No Data Available
36	4-Dimethylaminopyridine (DMAP)	1122-58-3	Irritant, Toxic to Aquatic	<1MT	<1MT	Raw Material	H301+H331, H310, H314, H411	No	No Data Available	No Data Available
37	4-Hydroxybenzaldehyde*	123-08-0	Irritant	1-10	1-10	Raw Material	H315, H319, H335	No	No Data Available	No Data Available
38	4-Isopropyl Catechol	2138-43-4	Irritant, Toxic to Aquatic	1-10	1-10	Raw Material	H335, H411, H319	No	No Data Available	No Data Available

Raw Materials, Intermediates and Products cont...

Ref. No. or Code (repeated)	Pollutants (Tick and specify Group/Family Number)				Controlled Substances REACH SVHC ⁽⁶⁾	Relevant hazardous substance? ⁽⁷⁾ Yes/No
	EC EO (Surface Waters) Regulations 2009		EC EO (Groundwater) Regulations 2010			
	Specific pollutants	Priority (hazardous) substances	Hazardous ⁽⁵⁾	Non- hazardous ⁽⁵⁾		
26	No	No	N/A	N/A	No	No
27	No	No	No	No	No	Yes
28	No	No	N/A	N/A	No	No
29	No	No	Yes	No	No	Yes
30	No	No	N/A	N/A	No	No
31	No	No	No	No	No	Yes
32	No	No	No	No	No	No
33	No	No	N/A	N/A	No	No
34	No	No	N/A	N/A	No	No
35	No	No	N/A	N/A	No	Yes
36	Yes	No	No	No	No	Yes
37	No	Yes	No	No	No	No
38	No	No	No	No	No	No

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Ref. No. or Code	Material/ Substance ⁽²⁾	CAS Number	Danger Category ⁽³⁾	Amount Stored (tonnes)	Annual Usage (tonnes)	Nature of Use	Hazard Statement ⁽⁴⁾	Odour		
								Odourous Yes/No	Description	Threshold µg/m3
39	4-Methyl Catechol Diacetic Acid (WMK Diester)	52589-39-6	Irritant	10-200	10-200	Raw Material	H302, H315, H319, H335	No	No Data Available	No Data Available
40	4-Methyl Catechol*	452-86-8	None	10-100	10-100	Raw Material	None	No	No Data Available	No Data Available
41	4-Methylacetophenone	122-00-9	Irritant	1-10	1-10	Raw Material	H302, H315	No	No Data Available	No Data Available
42	4-Picoline*	108-89-4	Flammable, Toxic	1-10	1-10	Raw Material	H226, H302, H332, H311, H315, H319, H335	No	No Data Available	No Data Available
43	4-t-Butylbenzaldehyde	939-97-9	Irritant, Toxic to Aquatic	<1MT	<1MT	Raw Material	H302, H334, H410	No	No Data Available	No Data Available
44	4-t-Butylcatechol	98-29-3	Harmful, Corrosive, Irritant	1-10	1-10	Raw Material	H302, H312, H314, H317, H410	Yes	Phenol-Like	No Data Available
45	4-tert-Butylcyclohexanol*	98-52-2	None	1-10	1-10	Raw Material	None	No	No Data Available	No Data Available
46	Acetic Acid	64-19-7	Flammable	1-10	10-100	Raw Material	H226, H314	Yes	Pungent	No Data Available
47	Acetone	67-64-1	Irritant	1-10	10-100	Raw Material, cleaning	H225, H319, H336	No	No Data Available	No Data Available
48	Acetonitrile*	75-05-2	Irritant	10-100	10-100	Raw Material	H225, H332, H312, H302, H319	Yes	Ether Like	No Data Available
49	AIBN (2,2'-Azobis(2-methylpropionitrile)	78-67-1	Irritant, Toxic to Aquatic	<1MT	<1MT	Raw Material	H242, H302, H312, H332, H412	No	No Data Available	No Data Available
50	Ammonia (Gas)	7664-41-7	Flammable, Toxic	<1MT	<1MT	Raw Material	H221, H280, H314, H331, H410	No	No Data Available	No Data Available
51	Ammonia Hydroxide*	1336-21-6	Harmful, Irritant	1-10	1-10	Raw Material	H302, H314, H335, H400	No	No Data Available	No Data Available

Raw Materials, Intermediates and Products cont...

Ref. No. or Code (repeated)	Pollutants (Tick and specify Group/Family Number)				Controlled Substances REACH SVHC ⁽⁶⁾	Relevant hazardous substance? ⁽⁷⁾ Yes/No
	EC EO (Surface Waters) Regulations 2009		EC EO (Groundwater) Regulations 2010			
	Specific pollutants	Priority (hazardous) substances	Hazardous ⁽⁵⁾	Non- hazardous ⁽⁵⁾		
39	No	No	N/A	N/A	No	No
40	No	No	N/A	N/A	No	No
41	No	No	No	No	No	No
42	No	No	No	No	No	No
43	Yes	No	No	No	No	Yes
44	No	No	N/A	N/A	No	Yes
45	No	No	N/A	N/A	No	Yes
46	No	No	Undetermined	Undetermined	No	No
47	No	No	Undetermined	Undetermined	No	No
48	No	No	No	No	No	No
49	No	No	No	No	No	Yes
50	No	No	N/A	N/A	No	Yes
51	No	No	N/A	N/A	No	No

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								Odourous Yes/No	Description	Threshold µg/m3
52	Ammonia Solution	1336-21-6	Harmful, Irritant	1-10	1-10	Raw Material	H302, H314, H335, H400	No	No Data Available	No Data Available
53	Ammonium Acetate*	631-61-8	None	10-100	10-100	Raw Material	None	Yes	Weakly of Acetic Acid	No Data Available
54	Ammonium Chloride*	12125-02-9	Harmful, Irritant	1-10	1-10	Raw Material	H302, H319	Yes	Ammonia Like	No Data Available
55	Aniline	62-53-3	Toxic, Harmful to the Environment	<1MT	<1MT	Raw Material	H301, H331, H311, H318, H317, H341, H251, H272, H410	No	No Data Available	No Data Available
56	Benzaldehyde*	100-52-7	Harmful, Irritant	10-100	10-100	Raw Material	H302, H312, H315	No	No Data Available	No Data Available
57	Benzophenone*	119-61-9	Harmful to the Environment	1-10	1-10	Raw Material	H410	No	No Data Available	No Data Available
58	Benzoyl Chloride	98-88-4	Irritant, Toxic, Carcinogenic, Mutagenic	<1MT	<1MT	Raw Material	H302, H315, H317, H318, H331, H335, H340, H350, H272	Yes	Pungent	No Data Available
59	Benzyl Chloroformate	501-53-1	Corrosive, Toxic, Carcinogenic	<1MT	<1MT	Raw Material	H314, H335, H350, H410	Yes	Pungent	No Data Available
60	Benzylchloromethyl Ether	3587-60-8	Harmful, Irritant, Carcinogenic	<1MT	<1MT	Raw Material	H302, H332, H315, H317, H318, H334, H225, H250, H272	No	No Data Available	No Data Available
61	BHT	128-37-0	Dangerous for the Environment	<1MT	<1MT	Raw Material	H410	No	No Data Available	No Data Available
62	Bromine	7726-95-6	Harmful, toxic, Harmful to Aquatic Life	<1MT	<1MT	Raw Material	H330, H314, H400	Yes	Suffocating	No Data Available
63	Bromobenzene	203-623-8	Flammable, Aquatic toxic	<1MT	<1MT	Raw Material	H226, H315, H411	No	No Data Available	No Data Available
64	Butyl Acetate*	123-86-4	Flammable	1-10	1-10	Raw Material	H226, H336, EUH066	Yes	Sweet	No Data Available

Raw Materials, Intermediates and Products cont...

Ref. No. or Code (repeated)	Pollutants (Tick and specify Group/Family Number)				Controlled Substances REACH SVHC ⁽⁶⁾	Relevant hazardous substance? ⁽⁷⁾ Yes/No
	EC EO (Surface Waters) Regulations 2009		EC EO (Groundwater) Regulations 2010			
	Specific pollutants	Priority (hazardous) substances	Hazardous ⁽⁵⁾	Non- hazardous ⁽⁵⁾		
52	No	No	N/A	N/A	No	Yes
53	No	No	N/A	N/A	No	No
54	No	No	N/A	N/A	No	No
55	No	No	N/A	N/A	No	Yes
56	No	No	N/A	N/A	No	No
57	No	No	Undetermined	Undetermined	No	Yes
58	No	No	N/A	N/A	No	No
59	No	No	N/A	N/A	No	Yes
60	No	No	N/A	N/A	No	Yes
61	No	No	N/A	N/A	No	Yes
62	No	No	Undetermined	Undetermined	No	Yes
63	Yes	No	No	No	No	Yes
64	No	No	No	No	No	No

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								Odourous Yes/No	Description	Threshold µg/m3
65	Carbon (Charcoal)*	7440-44-0	None	1-10	1-10	Raw Material	None	No	No Data Available	No Data Available
66	Carbon Dioxide (Liquid)	124-38-9	None	1-10	1-10	Raw Material	H281	No	No Data Available	No Data Available
67	Catechol	120-80-9	Toxic, Irritant, Mutagenic	1-10	1-10	Raw Material	H301, H311, H315, H317, H318, H332, H335, H410	No	No Data Available	No Data Available
68	Celite (Clarcel Flo)*	14808-60-7	Carcinogenic	1-10	1-10	Raw Material	H350	No	No Data Available	No Data Available
69	Chloroacetic Acid*	79-11-8	Toxic, Harmful, Dangerous for Aquatic Life	1-10	1-10	Raw Material	H301, H311, H314, H330, H335, H400	No	No Data Available	No Data Available
70	Chloroacetyl Chloride	201-171-6	Toxic, Severe burns	<1MT	<1MT	Raw Material	H331, H372, H400, EUH014	No	No Data Available	No Data Available
71	cis Enriched 1,2-Diaminocyclohexane	694-83-7	Corrosive	1-10	1-10	Raw Material	H314	No	No Data Available	No Data Available
72	Cobalt Acetate Tetrahydrate	612-153-6 (200-755-8)	Harmful, Irritant, Dangerous for the Environment	<1MT	<1MT	Raw Material	H302, H318, H410	No	Odourless	No Data Available
73	Copper (I) Chloride	7758-89-6	Harmful, Irritant, Toxic to Aquatic Life	<1MT	<1MT	Raw Material	H302, H315, H318, H410	No	Odourless	No Data Available
74	Copper (I) Iodide	7681-65-4	Toxic to Aquatic	<1MT	<1MT	Raw Material	H302, H315, H317, H318, H335, H410	No	Odourless	No Data Available
75	Copper (II) Chloride	7447-39-4	Toxic to Aquatic	<1MT	<1MT	Raw Material	H302, H315, H319, H335, H410	No	Odourless	No Data Available
76	Cyclohex-2-ene-1R-carboxylic acid	5709-98-8	Corrosive	1-10	1-10	Raw Material	H371	No	Odourless	No Data Available
77	Cyclohexane	110-82-7	Toxic, Fatal	1-10	1-10	Raw Material	H225, H304, H315, H336, H400, H410	No	Odourless	No Data Available

Raw Materials, Intermediates and Products cont...

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	EC EO (Surface Waters) Regulations 2009		EC EO (Groundwater) Regulations 2010			
	Specific pollutants	Priority (hazardous) substances	Hazardous ⁽⁵⁾	Non- hazardous ⁽⁵⁾		
65	No	No	N/A	N/A	No	No
66	No	No	No	No	No	No
67	No	No	N/A	N/A	No	No
68	No	No	No	No	No	No
69	No	No	Yes	No	No	No
70	No	No	No	No	No	No
71	No	No	N/A	N/A	No	No
72	No	No	N/A	N/A	No	Yes
73	Yes	No	N/A	N/A	No	Yes
74	Yes	No	No	No	No	Yes
75	Yes	No	No	No	No	Yes
76	No	No	No	No	No	No
77	Yes	No	No	No	No	Yes

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									Description	Threshold µg/m3
78	Cyclohexanol	108-93-0	Irritant	1-10	1-10	Raw Material	302, 315, 319, 332, 335	Yes	Characteristic	No Data Available
79	Cyclohexyl Bromide (Bromocyclohexane)*	108-85-0	N/a	1-10	1-10	Raw Material	H226, H315, H332, H302, H335	No	Odourless	No Data Available
80	Cyclopentyl Bromide*	137-43-9	Flammable	1-10	1-10	Raw Material	H226	No	Odourless	No Data Available
81	D-(+)-Glucose Monohydrate	14431-43-7	N/a	1-10	1-10	Raw Material	N/a	No	Odourless	No Data Available
82	D-Alanine Methyl Ester HCl	14316-06-4	N/a	1-10	1-10	Raw Material	H302, H315, H319, H335	No	Odourless	No Data Available
84	Desiccant	N/a	N/a	1-10	1-10	Raw Material	N/a	N/a	N/a	N/a
85	Dibutylamine*	111-92-2	Flammable Corrosive	1-10	1-10	Raw Material	H226, H302, H311, H314, H330	Yes	Rotten egg like	No Data Available
86	Dichloro (p-cymene) RU (II) Dimer	52462-29-0	Irritant	<1MT	<1MT	Raw Material	H302, H319, H412	Yes	Odourless	No Data Available
87	Dichlorobis(triphenylphosphine) Palladium (II)	13965-03-2	Irritant	<1MT	<1MT	Raw Material	H319	No	Odourless	No Data Available
88	Dichloromethane (DCM)	75-09-2	Irritant, Carcinogenic	1-10	1-10	Raw Material	H315, H319, H335, H336, H351, H373	No	Odourless	No Data Available
89	Diethyl Malonate	105-53-3	None	1-10	1-10	Raw Material	None	No	Odourless	No Data Available
90	Diethyl Oxalate*	95-92-1	Harmful, Corrosive, Irritant	1-10	1-10	Raw Material	H302, H314, H360FD, H371, H372	No	Odourless	No Data Available

Raw Materials, Intermediates and Products cont...

Ref. No. or Code (repeated)	Pollutants (Tick and specify Group/Family Number)				Controlled Substances REACH SVHC ⁽⁶⁾	Relevant hazardous substance? ⁽⁷⁾ Yes/No
	EC EO (Surface Waters) Regulations 2009		EC EO (Groundwater) Regulations 2010			
	Specific pollutants	Priority (hazardous) substances	Hazardous ⁽⁵⁾	Non- hazardous ⁽⁵⁾		
78	Yes	No	No	No	No	No
79	No	No	No	No	No	No
80	No	No	N/A	N/A	No	No
81	No	No	No	No	No	No
82	No	No	No	No	No	No
84	No	No	N/A	N/A	No	No
85	No	No	No	No	No	No
86	No	No	No	No	No	Yes
87	No	No	N/A	N/A	No	Yes
88	No	No	Yes	No	No	No
89	No	No	N/A	N/A	No	No
90	No	No	N/A	N/A	No	No

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4.6. Raw Materials, Intermediates and Products

Details of Process related Raw Materials, Intermediates, Products, etc., used or generated on the site *

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Note: Add additional rows in to this table if required. (Please copy the existing formatting into added rows).

Ref. No. or Code	Material/ Substance ⁽²⁾	CAS Number	Danger Category ⁽³⁾	Amount Stored (tonnes)	Annual Usage (tonnes)	Nature of Use	Hazard Statement ⁽⁴⁾	Odour		
								Odorous Yes/No	Description	Threshold µg/m3
91	Diethyl Sulfate*	64-67-5	Toxic, Mutagenic, Harmful	1-10	1-10	Raw Material	H302, H332, H311, H314, H340, H350	No	Odourless	No Data Available
92	Dihydroeugenol	2785-87-7	Toxic, irritant	1-10	1-10	Raw Material	H303, H311, H316, H317, H319	No	Odourless	No Data Available
93	Dimethylaluminium Chloride (13%) in Hexane	110-54-3 / 1184-58-3	Toxic, Flammable, Corrosive	<1MT	<1MT	Raw Material	H304, H314, H336, H361, H373, H411, H220, H280, H315, H318, H332, H335, H412	Yes	Aromatic	No Data Available
94	Dimethylamine (60%)*	124-40-3	Flammable, Corrosive, Irritant	10-100	10-100	Raw Material	H226, H312, H319, H332, H360D	Yes	Ammoniacal	No Data Available
95	Dimethylformamide (DMF)*	68-12-2	Flammable, Irritant	10-100	1-10	Raw Material	H226, H312, H319, H332, H360D	Yes	Amine Like	No Data Available
96	Di-t-Butyl Dicarboxylate	24424-99-5	Flammable, Toxic, Irritant	1-10	1-10	Raw Material	H226, H315, H317, H318, H330, H335	No	Odourless	No Data Available
97	DMPU	230-625-6	Toxic for Reproduction	<1MT	<1MT	Raw Material	H302, H318, H361	No	Odourless	No Data Available
98	D-Phenylalanine	673-06-3	N/a	1-10	1-10	Raw Material	-	No	Odourless	No Data Available
99	D-Phenylalanine Methyl Ester HCl	13033-84-6	Irritant	1-10	1-10	Raw Material		No	Odourless	No Data Available
100	D-Xylose	58-86-6	None	1-10	1-10	Raw Material	None	No	Odourless	No Data Available
101	Ethanol (Denatured)	64-17-5	Flammable	1-10	1-10	Raw Material	H225, H319	No	Odourless	No Data Available
102	Ethyl Acetate	141-78-6	Flammable	10-100	10-100	Raw Material	H225, H336, EUH066	No	Odourless	No Data Available
103	Ethyl Butyrate*	105-54-4	Flammable	1-10	1-10	Raw Material	H226	Yes	Sweet	No Data Available

Raw Materials, Intermediates and Products cont...

Ref. No. or Code (repeated)	Pollutants (Tick and specify Group/Family Number)				Controlled Substances REACH SVHC ⁽⁶⁾	Relevant hazardous substance? ⁽⁷⁾ Yes/No
	EC EO (Surface Waters) Regulations 2009		EC EO (Groundwater) Regulations 2010			
	Specific pollutants	Priority (hazardous) substances	Hazardous ⁽⁵⁾	Non- hazardous ⁽⁵⁾		
91	No	No	N/A	N/A	No	No
92	No	No	N/A	N/A	No	No
93	No	No	No	No	No	Yes
94	No	No	N/A	N/A	No	No
95	No	No	No	No	No	No
96	No	No	N/A	N/A	No	No
97	No	No	No	No	No	No
98	No	No	No	No	No	No
99	No	No	No	No	No	No
100	No	No	N/A	N/A	No	No
101	No	No	Undetermined	Undetermined	No	No
102	No	No	No	No	No	No
103	No	No	N/A	N/A	No	No

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4.6. Raw Materials, Intermediates and Products

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Ref. No. or Code	Material/ Substance ⁽²⁾	CAS Number	Danger Category ⁽³⁾	Amount Stored (tonnes)	Annual Usage (tonnes)	Nature of Use	Hazard Statement ⁽⁴⁾	Odorous Yes/No	Odour	
									Description	Threshold µg/m3
104	Ethyl Formate	109-94-4	Flammable, Irritant	1-10	1-10	Raw Material	H225, H302, H332, H319, H335	No	Odourless	No Data Available
105	Ethylene Glycol	107-21-1	Irritant	1-10	1-10	Raw Material	H302, H373	No	Odourless	No Data Available
106	Eugenol*	97-53-0	Irritant	1-10	1-10	Raw Material	H317, H319	Yes	Pungent	No Data Available
107	Formaldehyde (37%)	50-00-0	Flammable, Toxic, Carcinogenic, Corrosive	1-10	1-10	Raw Material	H226, H301, H311, H331, H314, H317, H335, H341, H350	Yes	Pungent	No Data Available
108	Formamide*	75-12-7	Toxic for Reproduction	1-10	10-20	Raw Material	H351, H360D, H373	Yes	Ammonia Odour	No Data Available
109										
110	Formamidine Acetate	3473-63-0	Irritant	1-10	1-10	Raw Material	H315, H317, H319, H335	No	Odourless	No Data Available
111	Formic Acid*	64-18-6	Toxic, Flammable, Corrosive	1-10	<1MT	Raw Material	H226, H302, H314, H331	No	Odourless	No Data Available
112	Furan	110-00-9	Flammable, Harmful, Irritant, Carcinogenic	<1MT	10-100	Raw Material	H224, H302, H332, H315, H341, H350, H373, H412	Yes	Petrol	No Data Available
113	Heptane	142-82-5	Toxic, Flammable, Corrosive	10-100	<1MT	Raw Material	H225, H304, H315, H336, H400, H410	No	Odourless	No Data Available
114	Hexamethyldisilazane	999-97-3	Flammable	<1MT	<1MT	Raw Material	H225, H302, H311, H314, H332, H412	No	Odourless	No Data Available
115	Hexamethyldisiloxane	107-46-0	Toxic to Aquatic	<1MT	1-10	Raw Material	H225, H410	No	Odourless	No Data Available
116	Hexane	64742-49-0	Potentially Fatal, Flammable, Harmful to the	1-10	<1MT	Raw Material	H225, H250, H261, H304, H314, H315, H336, H361F, H373	Yes	Benzine-Like	No Data Available

Raw Materials, Intermediates and Products cont...

Ref. No. or Code (repeated)	Pollutants (Tick and specify Group/Family Number)				Controlled Substances REACH SVHC ⁽⁶⁾	Relevant hazardous substance? ⁽⁷⁾ Yes/No
	EC EO (Surface Waters) Regulations 2009		EC EO (Groundwater) Regulations 2010			
	Specific pollutants	Priority (hazardous) substances	Hazardous ⁽⁵⁾	Non- hazardous ⁽⁵⁾		
104	No	No	N/A	N/A	No	No
105	No	No	Undetermined	Undetermined	No	No
106	No	No	N/A	N/A	No	No
107	No	No	N/A	Yes	No	No
108	No	No	N/A	N/A	No	No
110	No	No	No	No	No	No
111	No	No	N/A	N/A	No	No
112	No	No	N/A	N/A	No	No
113	No	No	No	No	No	Yes
114	No	No	No	No	No	Yes
115	No	No	No	No	No	Yes
116	No	No	N/A	N/A	No	No

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4.6. Raw Materials, Intermediates and Products

Details of Process related Raw Materials, Intermediates, Products, etc., used or generated on the site *

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Ref. No. or Code	Material/ Substance ⁽²⁾	CAS Number	Danger Category ⁽³⁾	Amount Stored (tonnes)	Annual Usage (tonnes)	Nature of Use	Hazard Statement ⁽⁴⁾	Odour		
								Odourous Yes/No	Description	Threshold µg/m3
117	Hexyllithium (33%) in Hexane	21369-64-2 / 64742-49-0	Potentially fatal, Flammable, Harmful to the	<1MT	<1MT	Raw Material	H225, H250, H261, H304, H314, H315, H336, H374, H377	Yes	Benzine-Like	No Data Available
118	Hydrazine Monohydrate	7803-57-8	Toxic	<1MT	1-10	Raw Material	301, 311, 330, 314, 317, 350, 410	No	Odourless	No Data Available
119	Hydrobromic Acid (48%)	10035-10-6	Corrosive, Irritant	1-10	10-100	Raw Material	H314, H335	No	Odourless	No Data Available
120	Hydrochloric Acid (28%)	7647-01-0	Corrosive, Irritant	10-100	10-100	Raw Material	H290, H314, H335	Yes	Pungent	No Data Available
121	Hydrochloric Acid (36%)	7647-01-0	Corrosive, Irritant	1-10	10-100	Raw Material	H290, H314, H335	Yes	Pungent	No Data Available
122	Hydrogen Chloride (Gas)	7647-01-0	Corrosive, Irritant	10-100	1-10	Raw Material	H290, H314, H335	Yes	Pungent	No Data Available
123	Hydroxylamine Sulfate*	10039-54-0	Corrosive, Carcinogenic, Irritant, Harmful	1-10	<1MT	Raw Material	H290, H302, H312, H315, H319, H351, H373, H400, H412	No	Odourless	No Data Available
124	Imidazole	206-019-2	Harmful, Corrosive, Irritant	<1MT	1-10	Raw Material	H302, H314, H360D	Yes	Amine-Like	No Data Available
125	Immobead A150	133396-60-8	N/a	1-10	10-100	Raw Material	-	N/a	N/a	N/a
126	IMS	64-17-5	Flammable	>100	1-10	Raw Material	H225, H371, H332	No	Odourless	No Data Available
127	Indene*	95-13-6	Flammable, Harmful	1-10	<0.01	Raw Material	H226, H304	No	Odourless	No Data Available
128	Iodine	7553-56-2	Harmful, Irritant, Toxic to Aquatic life	<1MT	<1MT	Raw Material	H312, H332, H315, H319, H335, H372, H410	Yes	Pungent	No Data Available
129	Iodomethane	74-88-4	Flammable, Toxic, Carcinogenic, Toxic to Aquatic	<1MT	<1MT	Raw Material	H226, H301, H331, H312, H319, H335, H351, H410	No	Odourless	No Data Available

Raw Materials, Intermediates and Products cont...

Ref. No. or Code (repeated)	Pollutants (Tick and specify Group/Family Number)				Controlled Substances REACH SVHC ⁽⁶⁾	Relevant hazardous substance? ⁽⁷⁾ Yes/No
	EC EO (Surface Waters) Regulations 2009		EC EO (Groundwater) Regulations 2010			
	Specific pollutants	Priority (hazardous) substances	Hazardous ⁽⁵⁾	Non- hazardous ⁽⁵⁾		
117	No	No	N/A	N/A	No	No
118	No	No	No	No	No	Yes
119	No	No	Undetermined	Undetermined	No	No
120	No	No	N/A	N/A	No	No
121	No	No	N/A	N/A	No	No
122	No	No	N/A	N/A	No	No
123	No	No	N/A	N/A	No	Yes
124	No	No	N/A	N/A	No	No
125	No	No	No	No	No	No
126	No	No	Undetermined	Undetermined	No	No
127	No	No	N/A	N/A	No	No
128	No	No	N/A	N/A	No	Yes
129	No	No	N/A	N/A	No	No

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4.6. Raw Materials, Intermediates and Products

Details of Process related Raw Materials, Intermediates, Products, etc., used or generated on the site *

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Ref. No. or Code	Material/ Substance ⁽²⁾	CAS Number	Danger Category ⁽³⁾	Amount Stored (tonnes)	Annual Usage (tonnes)	Nature of Use	Hazard Statement ⁽⁴⁾	Odour		
								Odorous Yes/No	Description	Threshold µg/m3
130	Irgacure 250	344562-80-7	N/a	<1MT	10-100	Raw Material	H302, H317, H318, H373, H410	N/a	N/a	N/a
131	Isopropanol*	67-63-0	Flammable	10-100	1-10	Raw Material	225, 319, 336	Yes	Alcohol like	No Data Available
132	Isopropyl Acetate*	108-21-4	Flammable Irritant	1-10	1-10	Raw Material	H225, H319, H336	Yes	Vinegar Like	No Data Available
133	Isopropylamine	75-31-0	Flammable Toxic	1-10	1-10	Raw Material	H311, H331, H301, H335	Yes	Ammonia	No Data Available
134	Isopropylmagnesium Chloride (20%) in Tetrahydrofuran	1068-55-9	Carcinogenic, Corrosive, Flammable	1-10	<1MT	Raw Material	H260, H314, H335, H351	Yes	Alcohol like	No Data Available
135	Isopropylmagnesium Chloride (21%) in Tetrahydrofuran	109-99-9 / 1068-55-9	Carcinogenic, Corrosive, Flammable	<1MT	10-100	Raw Material	H225, H260, H314, H335, H351	Yes	Alcohol like	No Data Available
136	L-Arabinose	5328-37-0	None	10-100	1-10	Raw Material	None	No	Odourless	No Data Available
137	Lithium Aluminium Hydride (10%) in THF	16853-85-3	Flammable, Corrosive	1-10	1-10	Raw Material	H260, H314	No	Odourless	No Data Available
138	Lithium Hexamethyldisilazine (24%) in THF	109-99-9 / 4039-32-1 / 513-35-9	Carcinogenic, Corrosive, Flammable	1-10	1-10	Raw Material	H225, H260, H314, H335, H351	No	Odourless	No Data Available
139	L-Phenylalanine	63-91-2	None	1-10	1-10	Raw Material	-	No	Odourless	No Data Available
140	L-Pyroglutamic Acid	98-79-3	None	1-10	1-10	Raw Material	H318	No	Odourless	No Data Available
141	L-Xylose	609-06-3	None	1-10	1-10	Raw Material	None	No	Odourless	No Data Available
142	Magnesium Hydroxide	1309-42-8	None	1-10	1-10	Raw Material	-	No	Odourless	No Data Available

Raw Materials, Intermediates and Products cont...

Ref. No. or Code (repeated)	Pollutants (Tick and specify Group/Family Number)				Controlled Substances REACH SVHC ⁽⁶⁾	Relevant hazardous substance? ⁽⁷⁾ Yes/No
	EC EO (Surface Waters) Regulations 2009		EC EO (Groundwater) Regulations 2010			
	Specific pollutants	Priority (hazardous) substances	Hazardous ⁽⁵⁾	Non- hazardous ⁽⁵⁾		
130	No	No	No	No	No	Yes
131	No	No	Undetermined	Undetermined	No	No
132	No	No	No	No	No	No
133	No	No	No	No	No	No
134	No	No	No	No	No	No
135	No	No	N/A	N/A	No	No
136	No	No	N/A	N/A	No	No
137	No	No	N/A	N/A	No	No
138	No	No	N/A	N/A	No	Yes
139	No	No	No	No	No	No
140	No	No	No	No	No	No
141	No	No	No	No	No	No
142	No	No	No	No	No	No

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Ref. No. or Code	Material/ Substance ⁽²⁾	CAS Number	Danger Category ⁽³⁾	Amount Stored (tonnes)	Annual Usage (tonnes)	Nature of Use	Hazard Statement ⁽⁴⁾	Odour		
								Odourous Yes/No	Description	Threshold µg/m3
143	Malonic Acid*	141-82-2	Irritant	1-10	1-10	Raw Material	H319	No	Odourless	No Data Available
144	Mandelic Acid	90-64-2	Corrosive	1-10	10-100	Raw Material	H314	Yes	Weakly Aromatic	No Data Available
145	Mannose Syrup	6153-56-6	Corrosive	10-100	<1MT	Raw Material	H314	No	Odourless	No Data Available
146	Marlotherm	27776-01-8 / 53585-53-8	Fatal, Toxic to Aquatic	<1MT	1-10	Raw Material	H304, H315, H413	Yes	Faint	No Data Available
147	Methacrylic Acid	79-41-4	Corrosive, Irritant	<1MT	1-10	Raw Material, cleaning	H290, H302, H312, H314, H335	Yes	Characteristic	No Data Available
148	Methanesulphonyl Chloride	124-63-0	Toxic, Corrosive	1-10	10-100	Raw Material	H301, H311, H314, H317, H330, H335	Yes	Pungent	No Data Available
149	Methanol	67-56-1	Flammable, Toxic	10-100	1-10	Raw Material	H225, H301, H311, H331, H370	No	Odourless	No Data Available
150	Methyl Acrylate*	96-33-3	Flammable, Irritant	1-10	10-100	Raw Material	H225, H302, H312, H315, H317, H319, H225, H412	Yes	Pungent	No Data Available
151	Methyl Chloroacetate*	96-34-4	Flammable, Toxic, Corrosive	10-100	10-100	Raw Material	H226, H301, H331, H315, H318, H335	No	Odourless	No Data Available
152	Methyl-t-Butyl Ether (MTBE)	1634-04-4	Toxic, Corrosive, Flammable	10-100	<1MT	Raw Material	H225, H315	No	Odourless	No Data Available
153	N,N-Dimethylacetamide*	127-19-5	Toxic, Irritant	<1MT	<1MT	Raw Material	H332, H312, H319, H360D	Yes	Amine-Like	44.4ppm
154	N,N-Dimethylaniline	204-493-5	Carcinogenic, Corrosive, Flammable, Reproductive	<1MT	<1MT	Raw Material	H301, H311, H331, H351, H411	No	Odourless	No Data Available
155	N-Butyllithium (24%) in Hexane	203-698-7 / 265151-9	Reproductive Toxicity, Chronic Aquatic toxic	<1MT	10-100	Raw Material	H304, H314, H336, H361f, H373,	No	Odourless	No Data Available

Raw Materials, Intermediates and Products cont...

Ref. No. or Code (repeated)	Pollutants (Tick and specify Group/Family Number)				Controlled Substances REACH SVHC ⁽⁶⁾	Relevant hazardous substance? ⁽⁷⁾ Yes/No
	EC EO (Surface Waters) Regulations 2009		EC EO (Groundwater) Regulations 2010			
	Specific pollutants	Priority (hazardous) substances	Hazardous ⁽⁵⁾	Non- hazardous ⁽⁵⁾		
143	No	No	N/A	N/A	No	No
144	No	No	N/A	N/A	No	No
145	No	No	No	No	No	No
146	No	No	No	No	No	Yes
147	No	No	N/A	N/A	No	No
148	No	No	N/A	N/A	No	No
149	No	No	No	No	No	No
150	No	No	N/A	N/A	No	No
151	No	No	N/A	N/A	No	No
152	Yes	No	No	Yes	No	No
153	No	No	N/A	N/A	No	No
154	No	No	No	No	No	Yes
155	No	No	No	No	No	Yes

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4.6. Raw Materials, Intermediates and Products

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Ref. No. or Code	Material/ Substance ⁽²⁾	CAS Number	Danger Category ⁽³⁾	Amount Stored (tonnes)	Annual Usage (tonnes)	Nature of Use	Hazard Statement ⁽⁴⁾	Odour		
								Odorous Yes/No	Description	Threshold µg/m3
156	Nitrogen (Liquid)	7727-37-9	None	10-100	1-10	Raw Material	None	No	Odourless	No Data Available
157	N-Methyl-2-Pyrrolidone (NMP)	872-50-4	Toxic, Irritant	1-10	<1MT	Raw Material	H315, H319, H335, H360D,	No	Odourless	No Data Available
158	N-Vinyl-2-pyrrolidone	88-12-0	Toxic, Corrosive	<1MT	<1MT	Raw Material	H332, H335, H351, H371	No	Odourless	No Data Available
159	Octamethylcyclotetrasiloxane	556-67-2	Reproductive Toxicity, Chronic Aquatic toxic	<1MT	1-10	Raw Material	H226, H361, H413	No	Odourless	No Data Available
160	Paraformaldehyde*	30525-89-4	Harmful, Corrosive, Irritant	1-10	1-10	Raw Material	H302, H332, H315, H317, H318, H335, H241, H250	Yes	Pungent	No Data Available
161	PEG 300	25322-68-3	None	1-10	1-10	Raw Material	None	No	Odourless	No Data Available
162	PEG 400	25322-68-3	None	1-10	1-10	Raw Material	None	No	Odourless	No Data Available
163	Peracetic Acid (40%)*	79-21-0	Flammable, Irritant, Toxic to Aquatic Life	1-10	1-10	Raw Material	H226, H242, H314, H335, H400	Yes	Acrid	No Data Available
164	Phenylglyoxylic Acid Methyl Ether (PGME)*	15206-55-0	None	1-10	<1MT	Raw Material	H400, H312, H314, H332	No	Odourless	No Data Available
165	Potassium Cyanide	151-50-8	Toxic, Corrosive, Harmful, Toxic to Aquatic Life	<1MT	1-10	Raw Material	H290, H300, H310, H330, H372, H410	Yes	Bitter Almond-Like	No Data Available
166	Potassium Hydroxide*	1310-58-3	Corrosive, Irritant	1-10	1-10	Raw Material	H290, H302, H314	No	Odourless	No Data Available
167	Propionaldehyde	123-38-6	Toxic, Irritant	1-10	10-100	Raw Material	H335, H318, H315, H332	Yes	Stench	No Data Available
168	Propylene Glycol	57-55-6	None	10-100	1-10	Raw Material	None	No	Odourless	No Data Available

Raw Materials, Intermediates and Products cont...

Ref. No. or Code (repeated)	Pollutants (Tick and specify Group/Family Number)				Controlled Substances REACH SVHC ⁽⁶⁾	Relevant hazardous substance? ⁽⁷⁾ Yes/No
	EC EO (Surface Waters) Regulations 2009		EC EO (Groundwater) Regulations 2010			
	Specific pollutants	Priority (hazardous) substances	Hazardous ⁽⁵⁾	Non- hazardous ⁽⁵⁾		
156	No	No	No	No	No	No
157	No	No	No	No	No	
158	No	No	No	No	No	No
159	No	No	No	No	No	Yes
160	No	No	N/A	N/A	No	No
161	No	No	No	No	No	No
162	No	No	No	No	No	No
163	No	No	No	Yes	No	Yes
164	Yes	No	No	No	No	No
165	No	No	N/A	N/A	No	Yes
166	No	No	Undetermined	Undetermined	No	No
167	No	No	No	No	No	No
168	No	No	Undetermined	Undetermined	No	No

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4.6. Raw Materials, Intermediates and Products

Details of Process related Raw Materials, Intermediates, Products, etc., used or generated on the site *

Complete the table below for all process related raw materials, intermediates, products, etc., used or generated on the site **Note 1** - See notes below table for further information

Note: Add additional rows in to this table if required. (Please copy the existing formatting into added rows).

Ref. No. or Code	Material/ Substance ⁽²⁾	CAS Number	Danger Category ⁽³⁾	Amount Stored (tonnes)	Annual Usage (tonnes)	Nature of Use	Hazard Statement ⁽⁴⁾	Odorous Yes/No	Odour	
									Description	Threshold µg/m3
169	Pyridine*	110-86-1	Flammable, Irritant	1-10	<1MT	Raw Material	H225, H302, H312, H332, H315, H319	Yes	Pungent	No Data Available
170	Quizarin	81-64-1	Aquatic toxicity	<1MT	<1MT	Raw Material	H410	No	Odourless	No Data Available
171	Ruthenium (III) Chloride Hydrate	14898-67-0	Corrosive, Irritant	<1MT	<1MT	Raw Material	H302, H314	Yes	Of Hydrochloric Acid	No Data Available
172	Silver Nitrate	7761-88-8	Aquatic toxicity, Flammable, Irritant	<1MT	1-10	Raw Material	H272, H290, H314, H410	No	Odourless	No Data Available
173	Sodium Bicarbonate*	144-55-8	None	1-10	<1MT	Raw Material	None	No	Odourless	No Data Available
174	Sodium Borohydride	16940-66-2	Flammable, Toxic, Harmful, Corrosive	<1MT	1-10	Raw Material	H260, H301, H314, H360F	Yes	Amine Like	No Data Available
175	Sodium Carbonate*	497-19-8	Irritant	1-10	1-10	Raw Material	H319	No	Odourless	No Data Available
176	Sodium Chloride	7647-14-5	None	1-10	<1MT	Raw Material	None	No	Odourless	No Data Available
177	Sodium Chlorite (25%)	7758-19-2	Flammable, Toxic, Harmful, Corrosive, Toxic	<1MT	10-100	Raw Material	H271, H301, H310, H314, H410	No	Odourless	No Data Available
178	Sodium Chloroacetate	3926-62-3	Toxic, Toxic for Aquatic Life	10-100	1-10	Raw Material	H301, H315, H400	Yes	Stinging	No Data Available
179	Sodium Cyanide	143-33-9	None	1-10	1-10	Raw Material	None	Yes	Bitter Almond-Like	No Data Available
180	Sodium Ethoxide (21%) in Ethanol	141-52-6 / 64-17-5	Flammable, Corrosive	1-10	1-10	Raw Material	H228, H251, H314	No	Odourless	No Data Available
181	Sodium Ethoxide (Crystals)*	141-52-6	Flammable, Corrosive	1-10	1-10	Raw Material	H228, H251, H314	No	Odourless	No Data Available

Raw Materials, Intermediates and Products cont...

Ref. No. or Code (repeated)	Pollutants (Tick and specify Group/Family Number)				Controlled Substances REACH SVHC ⁽⁶⁾	Relevant hazardous substance? ⁽⁷⁾ Yes/No
	EC EO (Surface Waters) Regulations 2009		EC EO (Groundwater) Regulations 2010			
	Specific pollutants	Priority (hazardous) substances	Hazardous ⁽⁵⁾	Non- hazardous ⁽⁵⁾		
169	No	No	N/A	N/A	No	No
170	No	No	No	No	No	Yes
171	No	No	N/A	N/A	No	Yes
172	No	No	No	Yes	No	Yes
173	No	No	N/A	N/A	No	No
174	No	No	N/A	N/A	No	No
175	No	No	Undetermined	Undetermined	No	No
176	No	No	Undetermined	Undetermined	No	No
177	No	No	N/A	N/A	No	Yes
178	No	No	N/A	N/A	No	No
179	No	No	Undetermined	Undetermined	No	Yes
180	No	No	N/A	N/A	No	No
181	No	No	N/A	N/A	No	No

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4.6. Raw Materials, Intermediates and Products

Details of Process related Raw Materials, Intermediates, Products, etc., used or generated on the site *

Complete the table below for all process related raw materials, intermediates, products, etc., used or generated on the site **Note 1** - See notes below table for further information

Note: Add additional rows in to this table if required. (Please copy the existing formatting into added rows).

Ref. No. or Code	Material/ Substance ⁽²⁾	CAS Number	Danger Category ⁽³⁾	Amount Stored (tonnes)	Annual Usage (tonnes)	Nature of Use	Hazard Statement ⁽⁴⁾	Odour		
								Odourous Yes/No	Description	Threshold µg/m3
182	Sodium Hydroxide	1310-73-2	Corrosive	1-10	100-200	Raw Material	H290, H314	No	odourless	No Data Available
183	Sodium Hydroxide (30%)	1310-73-2	Corrosive	>100	1-10	Raw Material	H290, H314	No	odourless	No Data Available
184	Sodium Hypochlorite	7681-52-9	Corrosive, Toxic to Aquatic Life	1-10	1-10	Raw Material	H314, H400	No	odourless	No Data Available
185	Sodium Metabisulphite*	7681-57-4	Flammable, Toxic, Harmful, Corrosive	10-100	10-100	Raw Material	H225, H251, H301, H311, H331, H314, H370	No	odourless	No Data Available
186	Sodium Methoxide (30%) in Methanol	124-41-4	Flammable, Toxic, Harmful, Corrosive	10-100	10-100	Raw Material	H225, H251, H301, H311, H331, H314, H370	No	odourless	No Data Available
187	Sodium Methoxide*	124-41-4	Flammable, Toxic, Harmful, Corrosive	10-100	<1MT	Raw Material	EUH014, 225, 314	No	odourless	No Data Available
188	Sodium Nitrite	7632-00-0	Aquatic toxicity, Flammable, Irritant	<1MT	1-10	Raw Material	H272, H301, H400	No	odourless	No Data Available
189	Succinic Anhydride*	108-30-5	Harmful, Corrosive, Irritant	1-10	10-100	Raw Material	H302, H314, H317, H334, H335	Yes	Pungent	No Data Available
190	Sulphuric Acid (50%)*	7664-93-9	Corrosive	10-100	1-10	Raw Material	H290, H314	No	odourless	No Data Available
191	Sulphuric Acid (96%)*	7664-93-9	Corrosive	10-100	<1MT	Raw Material	H290, H314	No	odourless	No Data Available
192	t-Butyl Hydroquinone	1948-33-0	Irritant	<1MT	<1MT	Raw Material	H302+H312, H315, H319, H400	No	odourless	No Data Available
193	Tetrabutylammonium Bromide	1643-19-2	Irritant	<1MT	100-500	Raw Material	H302, H319, H412	No	Odourless	No Data Available
194	Tetrahydrofuran*	109-99-9	Carcinogenic, Corrosive, Flammable	10-100	1-10	Raw Material	H225, H260, H314, H335, H351	Yes	Ether Like	No Data Available

Raw Materials, Intermediates and Products cont...

Ref. No. or Code (repeated)	Pollutants (Tick and specify Group/Family Number)				Controlled Substances REACH SVHC ⁽⁶⁾	Relevant hazardous substance? ⁽⁷⁾ Yes/No
	EC EO (Surface Waters) Regulations 2009		EC EO (Groundwater) Regulations 2010			
	Specific pollutants	Priority (hazardous) substances	Hazardous ⁽⁵⁾	Non- hazardous ⁽⁵⁾		
182	No	No	Undetermined	Undetermined	No	No
183	No	No	Undetermined	Undetermined	No	No
184	No	No	No	Yes	No	Yes
185	No	No	N/A	N/A	No	No
186	No	No	N/A	N/A	No	No
187	No	No	No	No	No	No
188	No	No	Undetermined	Undetermined	No	Yes
189	No	No	N/A	N/A	No	No
190	No	No	Undetermined	Undetermined	No	No
191	No	No	Undetermined	Undetermined	No	No
192	No	No	No	No	No	Yes
193	No	No	N/A	N/A	No	Yes
194	No	No	N/A	N/A	No	No

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4.6. Raw Materials, Intermediates and Products

Details of Process related Raw Materials, Intermediates, Products, etc., used or generated on the site *

Complete the table below for all process related raw materials, intermediates, products, etc., used or generated on the site **Note 1** - See notes below table for further information

Note: Add additional rows in to this table if required. (Please copy the existing formatting into added rows).

Ref. No. or Code	Material/ Substance ⁽²⁾	CAS Number	Danger Category ⁽³⁾	Amount Stored (tonnes)	Annual Usage (tonnes)	Nature of Use	Hazard Statement ⁽⁴⁾	Odour		
								Odorous Yes/No	Description	Threshold µg/m3
195	Thionyl Chloride	7719-09-7	Toxic, Corrosive	1-10	10-100	Raw Material	H302, H314, H331	No	No Data Available	No Data Available
196	Toluene	108-88-3	Irritant	10-100	<1MT	Raw Material	H336, H361d, H373, H412	Yes	Aromatic	1.74 ppm
197	Tributylamine	102-82-9	Toxic	<1MT	10-100	Raw Material	H302, H310, H330, H315	Yes	Unpleasant	No Data Available
198	Triethylamine*	121-44-8	Flammable, Toxic, Corrosive	10-100	1-10	Raw Material	H225, H302, H311, H331, H314, H335	Yes	Amine-Like	No Data Available
199	Triflic Anhydride (Trifluoromethanesulfonic Anhydride)	358-23-6	Irritant	1-10	1-10	Raw Material	EUH014, 302, 314	Yes	Stinging	No Data Available
200	Veratraldehyde*	120-14-9	Irritant	1-10	1-10	Raw Material	H302, H315, H319	No	No Data Available	No Data Available
201	Xylene	1330-20-7	Irritant	1-10	<1MT	Raw Material	H312, H315, H332	Yes	Aromatic	No Data Available
202	Zinc Bromide (30%) in THF	109-99-9 7699-45-8	Irritant, Toxic to Aquatic	<1MT	1-10	Raw Material	H317, H335, H411, EUH019	Yes	Ether Like	No Data Available
203	Zinc Chloride Anhydrous*	7646-85-7	Irritant, Toxic to Aquatic	1-10	<1MT	Raw Material	314, 335, 302, 410	No	Odourless	No Data Available
204	Zinc Dust	7440-66-6 / 1314-13-2	Toxic to Aquatic	<1MT		Raw Material	H410	No	Odourless	No Data Available
205	Diesel	H411, H350, H315, H304, H373	Carcinogenic	10,000L	40,000L	Fuel	H411, H350, H315, H304, H373	Yes	Diesel	No Data Available

Notes: 1 The details provided should be very comprehensive, all materials used, fuels, intermediates, laboratory chemicals and product should be included. Particular attention should be paid to materials and product consisting of, or containing, dangerous substances as described in the EU (Classification, Packaging, Labelling and Notification of Dangerous Substances) Regulations 2003 [SI 116/2003] as amended and Regulation (EC) No. 1272/2008. The list must classify these materials in accordance with both of these Regulations, and must specify the designated Hazard Statements. Hazard statements for each substance should be in accordance with Article 21 of the EC Regulation 1272/2008

Raw Materials, Intermediates and Products cont...

Ref. No. or Code (repeated)	Pollutants (Tick and specify Group/Family Number)				Controlled Substances REACH SVHC ⁽⁶⁾	Relevant hazardous substance? ⁽⁷⁾ Yes/No
	EC EO (Surface Waters) Regulations 2009		EC EO (Groundwater) Regulations 2010			
	Specific pollutants	Priority (hazardous) substances	Hazardous ⁽⁵⁾	Non- hazardous ⁽⁵⁾		
195	No	No	N/A	N/A	No	No
196	Yes	No	Yes	No	Yes	Yes
197	No	No	N/A	N/A	No	Yes
198	No	No	N/A	N/A	No	No
199	No	No	No	No	No	No
200	No	No	No	No	No	No
201	Yes	No	Yes	No	No	No
202	No	No	N/A	N/A	No	Yes
203	No	No	No	Yes	No	Yes
204	Yes	No	No	Yes	No	Yes
205	No	No	Yes	No	No	No

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4.6. Raw Materials, Intermediates and Products

Details of Process related Raw Materials, Intermediates, Products, etc., used or generated on the site *

Complete the table below for all process related raw materials, intermediates, products, etc., used or generated on the site **Note 1** - See notes below table for further information

Note: Add additional rows in to this table if required. (Please copy the existing formatting into added rows).

Ref. No. or Code	Material/ Substance ⁽²⁾	CAS Number	Danger Category ⁽³⁾	Amount Stored (tonnes)	Annual Usage (tonnes)	Nature of Use	Hazard Statement ⁽⁴⁾	Odour		Threshold µg/m3
								Odourous Yes/No	Description	

statements for each substance should be in accordance with Article 21 of the EC Regulation 1272/2008.
 The list must identify any Substances of Very High Concern (SVHC) listed in Annex XIV of the REACH Regulations (Regulation (EC) No 1907/2006) as amended and indicate whether the use has been authorised or is exempted in accordance with the Regulation. In the case(s) of exempted use(s) the list must state the basis for each intended exempted use concerned.

2 In cases where a material comprises a number of distinct and available dangerous substances, please give details for each component substance.

3 Article 2(2) of S.I. No. 116/2003.

4 EC Regulation 1272/2008 (Chemicals Act 2008 13 of 2008) and 2010)

5 The EPA Classification of Hazardous and Non-Hazardous Substances in Groundwater, December 2010.

6 Where relevant, specify whether the substance is on the Authorisation List (Annex XIV Regulation (EC) No 1907/2006 as amended) or Restriction List (Annex XVII Regulation (EC) No 1907/2006 as amended). Also, indicate whether the use has been authorised or exempted in accordance with Regulation (EC) No 1907/2006 as amended.

7 Relevant hazardous substances are those substances or mixtures defined within Article 3 of Regulation (EC) No 1272/2008 on the classification, labelling and packaging of substances and mixtures which, as a result of their hazardoussness, mobility, persistence and biodegradability (as well as other characteristics), are capable of contaminating soil or groundwater.

Raw Materials, Intermediates and Products cont...

Ref. No. or Code (repeated)	Pollutants (Tick and specify Group/Family Number)				Controlled Substances REACH SVHC ⁽⁶⁾	Relevant hazardous substance? ⁽⁷⁾ Yes/No
	EC EO (Surface Waters) Regulations 2009		EC EO (Groundwater) Regulations 2010			
	Specific pollutants	Priority (hazardous) substances	Hazardous ⁽⁵⁾	Non- hazardous ⁽⁵⁾		

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