

EPA Application Form

4. Activity and Capacity

4.6.2 - Raw Materials, Intermediates and Products - Attachment

Organisation Name: *

Indaver Ireland Ltd.

Application I.D.: *

LA001689

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	Ammonia Solution (25% v/v)	1336-21-6	Skin Corr. 1B Aquatic Acute 1	80 m3	832t	Neutralise the NOx present in the flue gas	H314 H400	Yes	Characteristic, slightly pungent	Not determined
2	Diesel	94114-59-7	Carc. 2	60 m3	300t	Control heating/cooling of the furnace	H350 H351	Yes	Mild petroleum oil like	Not determined
3	Sodium Hydroxide (30% v/v)	1310-73-2	Skin Corr. 1A	0.15 m3	32	Stabilise the pH of the boiler drum	H314	No	Odourless	Not determined
4	Nitric Acid (27%)	7697-37-2	Ox. Liq. 2 Skin Corr 1B	2 m3	5.7t	Pipework and atomiser cleaning	H272 H314	Yes	Strong, acrid odour	Not determined
5	Sodium Chloride	7647-14-5	-	4 tonnes	2t	De-icing	-	Yes	Slight odour	Not determined
6	Quicklime (95%)	1305-78-8	-	180 m3	2,432t	Neutralisation of the acids in the flue gas	-	No	Odourless	Not determined
7	Hydrated Lime	1305-78-8	-	30 m3	2,432t	Neutralisation of the acids in the flue gas	-	No	Odourless	Not determined
8	Activated Carbon	931-328-0	-	70 m3	128t	Adsorption of dioxins/furans in the flue gas	-	No	Odourless	Not determined
9	Expanded Clay (as an alternative to Activated Carbon)	-	-	70 m3	160t	Adsorption of dioxins/furans in the flue gas	-	No	Odourless	Not determined
10	Ethylene Glycol	107-21-1	Acute Tox. 4	12 m3	25L	Cooling circuits	H302	Yes	Mild	Not determined

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	-	Yes	No	Yes
2	No	No	Yes	-	No	Yes
3	No	No	Not determined	Not determined	No	Yes
4	No	No	Not determined	Not determined	No	Yes
5	No	No	Not determined	Not determined	No	No
6	No	No	-	-	No	No
7	No	No	-	-	No	No
8	No	No	-	-	No	No
9	No	No	-	-	No	No
10	No	No	Not determined	Not determined	No	Yes

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
11	Propane	-	Flam. Gas 1	22 x 18-50 kg	5t	Oil burners for start up; forklifts	H220	Yes	Sweet	Not determined
12	Waste Feed	-	-	8000 t	< 240,000t	Waste	-	Yes	Characteristic	Not determined
13	Bottom Ash	-	-	3,000 t	52,664t	Waste	-	No	Odourless	Not determined
14	Boiler Ash	-	-	60 t	2,000t	Waste	-	No	Odourless	Not determined
15	Flue Gas Residue	-	-	312 t	9,104t	Waste	-	No	Odourless	Not determined
16	Recovered Ferrous Metal	-	-	150 t	2,400t	Waste	-	No	Odourless	Not determined
17	Non Ferrous Metal	-	-	75 t	240t	Waste	-	No	Odourless	Not determined
18	Waste Oils	-	-	1000L	500L	Waste	-	Yes	Characteristic	not determined
19	Interceptor Residue	-	-	5m3	1m3	Waste	-	Yes	Characteristic	not determined
20	WEEE	-	-	4t	4t	Waste	-	No	Odourless	Not determined
21	Miscellaneous Hazardous	-	-	1t	1T	Waste	-	Yes	Characteristic	not determined
22	Solidified Residues	-	-	100t	20,000t	Waste	-	No	Odourless	Not determined
23	Liquids for injection	-	-	250t	24,000t	Waste	-	Yes	Characteristic	not determined
24	ANTI-FREEZE COOLANT ELF FINOL 20 LTR	-	-	20L	10L	Production	-	Yes	Characteristic	Not determined
25	Buffer Solution pH 4	-	-	4 x 1L	3L	Pond	-	Yes	Characteristic	Not determined

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⁾		
11	No	No	-	-	No	Yes
12	No	No	-	-	No	No
13	No	No	-	-	No	No
14	No	No	-	-	No	No
15	No	No	-	-	No	No
16	No	No	-	-	No	No
17	No	No	-	-	No	No
18	No	No	-	-	No	No
19	No	No	-	-	No	No
20	No	No	-	-	No	No
21	No	No	-	-	No	No
22	No	No	-	-	No	No
23	No	No	-	-	No	No
24	No	No	-	-	No	No
25	No	No	-	-	No	No

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
26	Buffer Solution pH 7	-	-	4 x 1L	3L	Pond	-	Yes	Characteristic	Not determined
27	Chilltech (corrosion inhibitor in the cooling water system)	-	-	4 x 25L	50L	Production	-	Yes	Characteristic	Not determined
28	Conductivity Standard 1413uS/cm	-	-	4 x 500ml	3L	Pond	-	Yes	Characteristic	Not determined
29	Disinfectant FAM 30 5L	-	-	3 x 5L	20L	Production	-	Yes	Faint surfactant / Faint Iodine	Not determined
30	GREENOX Adblue (Urea)	57-13-6	-	4 x 20L	200L	Production	-	Yes	Slightly ammoniacal	Not determined
31	LUBRICANT BRILUBE 30 (20L)	-	-	2 x 20L	60L	Lubricant	-	Yes	Like aromatic solvents	Not determined
32	LUBRICANT QUAKER 888-46 F/R 180KG	-	-	3 x 208L	624L	Furnace and flue gas hydraulics	-	Yes	Mild Ester-like	Not determined
33	OIL MOBIL DTE26 (208L)	-	-	208L	832L	Lubricant	-	Yes	Characteristic	Not determined
34	Pedrogen (Hydrogen Peroxide Solution)	7722-84-1	Acute Toxicity Irritant Aquatic Chronic	1L	500mL	Mech	H302 H318 H413	No	Odourless	Not determined
35	Phosphoric Acid	7664-38-2	Irritant (Skin Corrosive 1B)	4 x 25L	450L	Water Tech (E&I)	H314	No	Odourless	Not determined
36	REAGECON BUFFER SOL.TOC100 100PPM-500MLS	-	-	2 x 500ml	4L	Pond	-	Yes	Characteristic	Not determined
37	RoClean 12	-	-	3 x 1kg	3kg	Mech	-	No	Odourless	Not determined
38	RoClean 2	77-92-9	Irritant (Eye Irritant 2)	3 x 500g	2kg	Mech	H319	No	Odourless	Not determined
39	Sodium Hydroxide 22%	-	-	5L	2.5L	CEMS multigas analyser	-	No	Odourless	Not determined

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⁾		
26	No	No	-	-	No	No
27	No	No	-	-	No	No
28	No	No	-	-	No	No
29	No	No	-	-	No	No
30	No	No	-	-	No	No
31	No	No	-	-	No	No
32	No	No	-	-	No	No
33	No	No	-	-	No	No
34	No	No	-	-	No	Yes
35	No	No	-	Yes	No	Yes
36	No	No	-	-	No	No
37	No	No	-	-	No	No
38	No	No	-	-	No	Yes
39	No	No	Not determined	Not determined	No	Yes

4.6. Raw Materials, Intermediates and Products

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								Odorous Yes/No	Description	Threshold µg/m3
40	Sodium Persulphate	7775-27-1	-	4 x 25L	425L	Pond	-	No	Odourless	Not determined
41	Testomat 2000	-	-	3 x 500ml	2L	Hardness Monitoring	-	Yes	Characteristic	Not determined
42	Thermbond	-	-	4 x 1 gallon	1 gallon	Used for maintenance of the furnace during shutdown	-	Yes	Characteristic	Not determined
43	Caustic Liquor	-	-	2 x 25L	0	Production	-	No	Odourless	Not determined
44	CAT Transmission and Drive Train Oil	-	-	20L	20L	Loader	-	Yes	Characteristic	Not determined
45	CAT Hydraulic Oil	-	-	3 x 20L	40L	Loader	-	Yes	Characteristic	Not determined
46	CAT Extended Life Coolant	-	-	20L	20L	Loader	-	Yes	Faint or Mild	Not determined
47	CAT Engine Oil	-	-	20L	20L	Loader	-	Yes	Characteristic	Not determined
48	Karcher Machine Protector Advance 1	-	-	5 x 1L	5L	Loader	-	Yes	Product specific	Not determined
49	Karcher Active Cleaner	-	-	1L	4L	Loader	-	Yes	Citrus like	Not determined
50	Disofil 32 Refractory Binder	-	-	37 x 5L	0	not used	-	No	Odourless	Not determined
51	Carter SY 220	-	-	2 x 20L	80L	Shutdown	-	Yes	Characteristic	not determined
52	Ecocool 420 (Slugger Metal Working Fluid)	-	-	5L	2.5L	Coolant for bandsaw	-	Yes	Characteristic	not determined
53	Lubricant/Coolant for Bredel Hosepump	-	-	3 x 5L	100L	Lubricant for hose	-	Yes	Characteristic	not determined

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⁾		
40	No	No	Not determined	Not determined	No	No
41	No	No	-	-	No	No
42	No	No	-	-	No	No
43	No	No	-	-	No	No
44	No	No	-	-	No	No
45	No	No	-	-	No	No
46	No	No	-	-	No	No
47	No	No	-	-	No	No
48	No	No	-	-	No	No
49	No	No	-	-	No	No
50	No	No	-	-	No	No
51	No	No	-	-	No	No
52	No	No	-	-	No	No
53	No	No	-	-	No	No

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								Odorous Yes/No	Description	Threshold µg/m3
54	MOBIL CHASSIS GREASE LB2	-	-	15L	0	Chassis grease	-	Yes	Characteristic	not determined
55	MOBIL DTE 26	-	-	2 x 208L	416L	Oil for the grab	-	Yes	Characteristic	not determined
56	Mobil SHC 630	-	-	20L	40L	Grease for grate	-	Yes	Characteristic	not determined
57	MOBIL XMP 220	-	-	2 x 20L	40L	Gearboxes	-	Yes	Characteristic	not determined
58	Mobilgear 600 XP 150	-	-	3 x 20L	40L	Bunker cranes	-	Yes	Characteristic	not determined
59	Mobilgear 600 XP 220	-	-	2 x 20L	40L	Gearbox oil	-	Yes	Characteristic	not determined
60	Mobilgear 600 XP 460	-	-	2 x 20L	5L	Gearbox in the maturation silo	-	Yes	Characteristic	not determined
61	Mobilgear 600 XP 680	-	-	2 x 20L	5L	Gearbox in the maturation silo	-	Yes	Characteristic	not determined
62	Mobilgrease XHP 222	-	-	12 x 400g	19.2kg	Bearings	-	Yes	Characteristic	not determined
63	Mobil NUTO H 46	-	-	20L	60L	Pumps	-	Yes	Characteristic	not determined
64	Total Preslia GT 46	-	-	3 x 208L	104L	Lubricant for turbine	-	Yes	Characteristic	not determined
65	Ridgid Dark Thread Cutting Oil	-	-	2L	1L	Thread cutting machine oil	-	Yes	Characteristic	not determined
66	Total Multis Complex EP3	-	-	12 x 400g	4.8kg	Motor grease	-	Yes	Characteristic	not determined
67	Renolith 443 HD 88	-	-	12 x 400g	41.6kg	Double deck	-	Yes	Characteristic	not determined
68	Hydrogen	1333-74-0	Flammable Gases under Pressure	4 x 50L	50L	Continous Emissions Monitoring	H220 H280	No	Odourless	Not determined

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⁾		
54	No	No	-	-	No	No
55	No	No	-	-	No	No
56	No	No	-	-	No	No
57	No	No	-	-	No	No
58	No	No	-	-	No	No
59	No	No	-	-	No	No
60	No	No	-	-	No	No
61	No	No	-	-	No	No
62	No	No	-	-	No	No
63	No	No	-	-	No	No
64	No	No	-	-	No	No
65	No	No	-	-	No	No
66	No	No	-	-	No	No
67	No	No	-	-	No	No
68	No	No	-	-	No	No

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								Odorous Yes/No	Description	Threshold µg/m3
69	Ineregen Mixture of Gases (Oxygen, Carbon Dioxide, Argon 93%)	7440-37-1	Gases under Pressure	3 x 143kg	143kg	Fire Suppression	H280	No	Odourless	Not determined
70	Mixture of Gases (Anhydrous Ammonia, Nitrogen 99.98%)	7727-37-9	Gases under Pressure	2 x 10L	10L	Continuous Emissions Monitoring	H280	Yes	Sweet	Not determined
71	Mixture of Gases (Carbon Dioxide 12%, Nitrogen 88%)	124-38-9 7727-37-9	Gases under Pressure	2 x 50L	50L	Continuous Emissions Monitoring	H280	No	Odourless	Not determined
72	Mixture of Gases (Dinitrogen Oxide, Nitrogen 99.998%)	7727-37-9	Gases under Pressure	2 x 50L	50L	Continuous Emissions Monitoring	H280	Yes	Sweet	Not determined
73	Mixture of Gases (Hydrogen chloride, Nitrogen 99.76%)	7727-37-9	Gases under Pressure Corrosive (Skin Corr. 1B)	10L	10L	Continuous Emissions Monitoring	H280 H314	Yes	Pungent	Not determined
74	Mixture of Gases (Nitrogen dioxide, Nitrogen >99.99%)	7727-37-9	Gases under Pressure	50L	50L	Continuous Emissions Monitoring	H280	No	Irritating	Not determined
75	Mixture of Gases (Oxygen, Nitrogen 99.6%)	7727-37-9	Gases under Pressure	3 x 50L	50L	Continuous Emissions Monitoring	H280	No	Odourless	Not determined
76	Mixture of Gases (Oxygen, Nitrogen 92%)	7727-37-9	Gases under Pressure	2 x 50L	50L	Continuous Emissions Monitoring	H280	No	Odourless	Not determined
77	Mixture of Gases (Oxygen, Nitrogen 98%)	7727-37-9	Gases under Pressure	2 x 50L	50L	Continuous Emissions Monitoring	H280	No	Odourless	Not determined
78	Mixture of Gases (Propane, Nitrogen >99.99%)	7727-37-9	Gases under Pressure	2 x 50L	50L	Continuous Emissions Monitoring	H280	No	Odourless	Not determined

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⁾		
69	No	No	-	-	No	Yes
70	No	No	-	-	No	Yes
71	No	No	-	-	No	Yes
72	No	No	-	-	No	Yes
73	No	No	-	-	No	Yes
74	No	No	-	-	No	Yes
75	No	No	-	-	No	Yes
76	No	No	-	-	No	Yes
77	No	No	-	-	No	Yes
78	No	No	-	-	No	Yes

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								Odorous Yes/No	Description	Threshold µg/m3
79	Mixture of Gases (SO ₂ , CO, NO, Nitrogen >99.9%)	7727-37-9	Gases under Pressure Acute Tox. 4	3 x 50L	50L	Continous Emissions Monitoring	H280 H332	Yes	Irritating, pungent	Not determined
80	Mixture of Gases (Sulphur dioxide, Nitrogen >99.91%)	7727-37-9	Gases under Pressure	3 x 10L	10L	Continous Emissions Monitoring	H280	Yes	Pungent	Not determined
81	Nitrogen	7727-37-9	Gases under Pressure	3 x 50L	50L	Continous Emissions Monitoring	H280	No	Odourless	Not determined

- Notes:**
- 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. 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.
 - In cases where a material comprises a number of distinct and available dangerous substances, please give details for each component substance.
 - Article 2(2) of S.I. No. 116/2003.
 - EC Regulation 1272/2008 (Chemicals Act 2008 (13 of 2008) and 2010)
 - The EPA Classification of Hazardous and Non-Hazardous Substances in Groundwater, December 2010.
 - 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.
 - 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 hazardousness, 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⁾		
79	No	No	-	-	No	Yes
80	No	No	-	-	No	Yes
81	No	No	-	-	No	No