



Article 22(1) of Directive 2010/75/EU on Industrial Emissions

Appraisal of the Risk of Contamination of Groundwater and Soil at the Dawn Cross Hands site.

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1 Introduction

Dunbia Cross Hands has been requested by Natural Resources Wales to carry out a systematic appraisal of the risk of contamination of groundwater and soil for the facility at Cross Hands Business Park West in Cross Hands, Carmarthenshire, SA14 6RF.

This appraisal includes a review of current substance inventories, material quantities and storage arrangements.

2 Methodology

This appraisal has been completed with reference to the following guidance;

- Environment Agency; Horizontal Guidance Note H5. Site condition report – guidance and templates – 13th May 2013.
- *European Commission guidance concerning baseline reports under Article 22 (2) of Directive 2010/75/EU on industrial emissions* – 16th May 2014.

The requirements set out in the guidance together with how these were addressed in this baseline report are outlined below;

1. Identify hazardous substances use, produced or released from the site. Hazardous substances are those defined in Article 3 of Regulation (EC) No. 1272 / 2008 on classification, labelling and packaging of substances and mixtures. For the purposes of this report, data sheets for materials use, produced or released from site were used to identify and screen out substances that are not hazardous,
2. Identify which of the hazardous substances are relevant hazardous substances. Once a list of hazardous substances has been established, substances were investigated to see if they are relevant in relation to the pollution of soil and groundwater.
3. Assess and justify the possibility for soil or groundwater contamination. Once relevant hazardous substances were identified the site-specific pollution possibility was assessed. As part of this assessment the following was taken into consideration for each substance;
 - Quantity of substance handled, produced or emitted.
 - Location of substance, including storage conditions.
 - The presence and integrity containment controls.
4. Provide a site history in relation to relevant hazardous substances.
5. Describe the sites Environmental Setting
6. Describe the location, nature and extent of existing pollution on site.
7. Site survey.

SITE DETAILS	
Name of the applicant	Dunbia Cross Hands
Activity address	Cross Hands Business Park West, Cross Hands, Carmarthenshire SA14 6RF
National grid reference	SN 56677 12309; (Six figure) SN566123 (X) 256677, (Y) 212309

HAZARDOUS SUBSTANCES	<i>Identify which hazardous substances are used, produced or released at the installation and produce a list of these hazardous substances.</i>
Please refer to Appendix A	

RELEVANT HAZARDOUS SUBSTANCES	<i>Identify which of the hazardous substances from point 2.0 are 'relevant hazardous substances'.</i>
Please refer to Appendix B	

SITE HISTORY	
Dunbia Cross Hands is part of Dunbia (A Division of Dawn Meats) and this site opened in 2004, this site was developed from a green field site.	

SITE ENVIRONMENTAL SETTING	<i>Determine where hazardous substances may go if released and where to look for them. Also identify the environmental media and receptors that are potentially at risk and where there are other activities in the area which release the same hazardous substances and may cause them to migrate onto the site.</i>
- Geology Bedrock - South Wales middle coal measures formation – Mudstone, Siltstone and Sandstone. The report undertaken as part of the IPPC permit application in 2003 showed the site to be underlain by superficial deposits of Glacial Boulder Clay overlying the Middle Coal Measures (MCM) bedrock. - Soil Texture - The soil can be described as slowly permeable wet very acid upland soils with a peaty surface. Peaty or humose loamy texture. The Agricultural Land Map in 2003 indicated the soil at the site to be of Grade 4 value and Wilcocks 1.	

- Topography – Please refer to figure 3.

Hydrogeology – The Environment Agency Groundwater Vulnerability sheet classifies the underlying soil as major aquifer low.

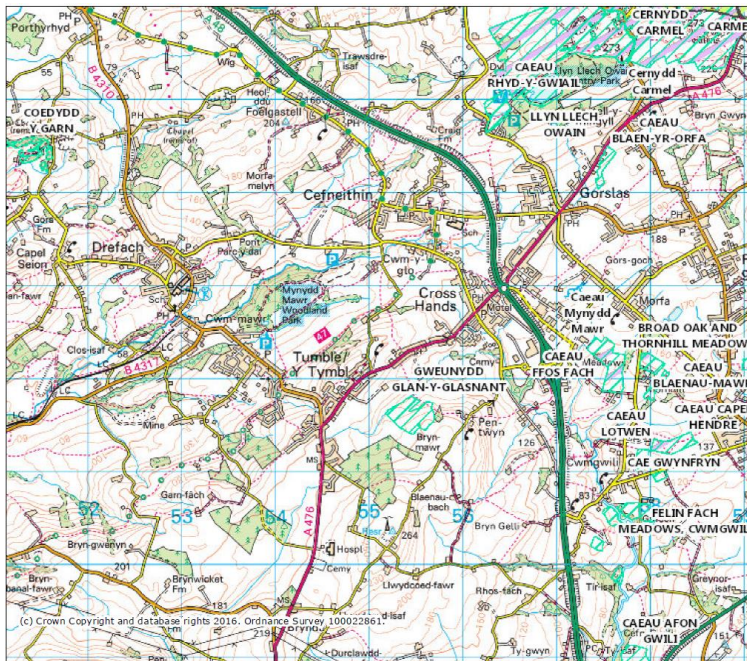
Drainage – Impeded drainage

Fertility – Low

Habitats – Grass moor and some heather with flush and bog communities in wetter parts.

- Environmental aspects

Sites of Special Scientific Interest (SSSI's) around the surrounding area include Caeau Ffos Fach and Caeau Mynydd Mawr.



- Surrounding land use – grass moor and some heather with flush and bog communities in wetter parts.
- Crosshands is located within a small industrial food park. Other activities in the area which release the same hazardous substances and may cause them to migrate onto the Dunbia site are Gower View Foods, Castell Howell and Mario's Ice Cream.

Site Pollution history	<i>Pollution history including:</i> • <i>Pollution incidents that may have affected land</i> • <i>Historical land-uses and associated contaminants</i> • <i>Any visual / olfactory evidence of existing contamination</i> • <i>Evidence of damage to pollution prevention measures</i>
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At the time of writing this report there was no evidence of pollution incidents that may have affected soil or groundwater, During the site survey, no evidence of historic pollution incidents was observed and there were no records of historic pollution or damage to pollution prevention measures that would have given rise to site pollution of soil or groundwater. Historically the site was a green field site and the area was developed into a food park.

Historic Information on Site Condition	<i>Evidence of historic contamination, for example, historical site investigation, assessment, remediation and verification reports (where available)</i>
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Dunbia Cross Hands is part of Dunbia (A Division of Dawn Meats) and this site opened in 2004.

At the time of writing this report, there was no historic assessments of soil and groundwater condition other than a survey conducted when the site was first built. This survey did not identify any historic pollution.

Figure 1 – Area Map

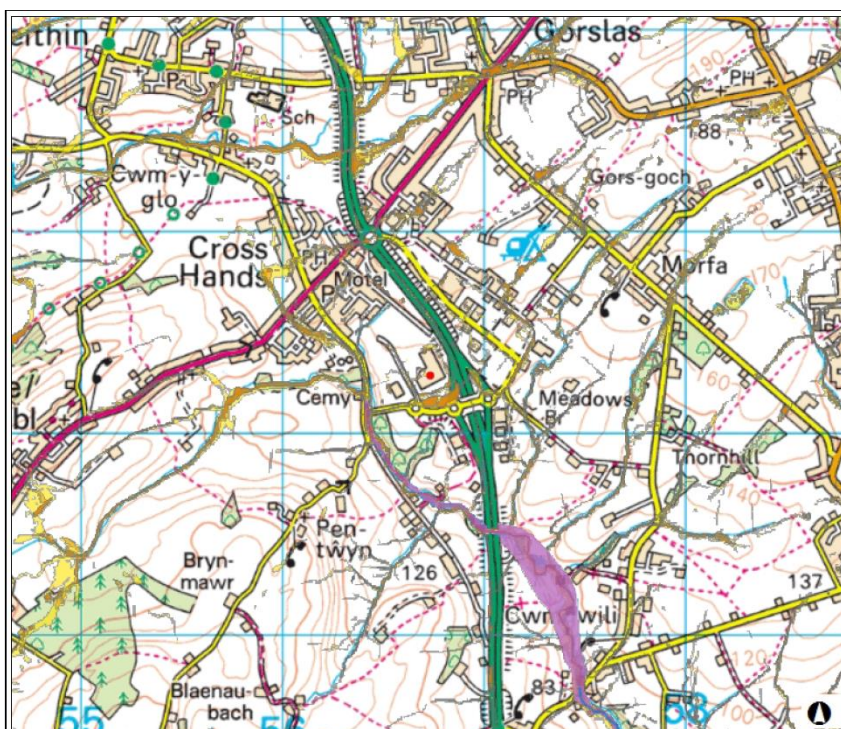


Figure 2 – Site Plan

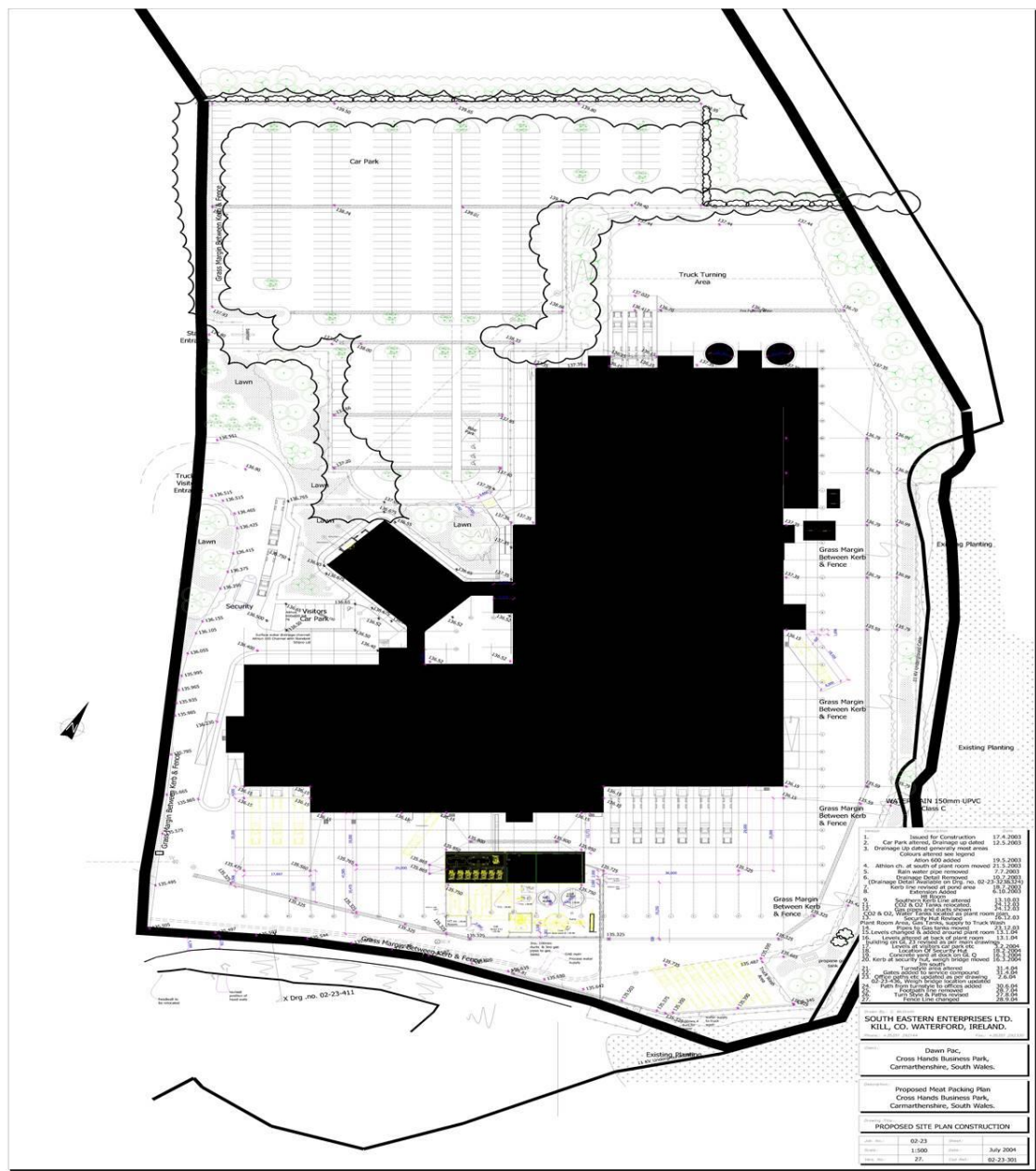


Figure 3 – Topographical Survey

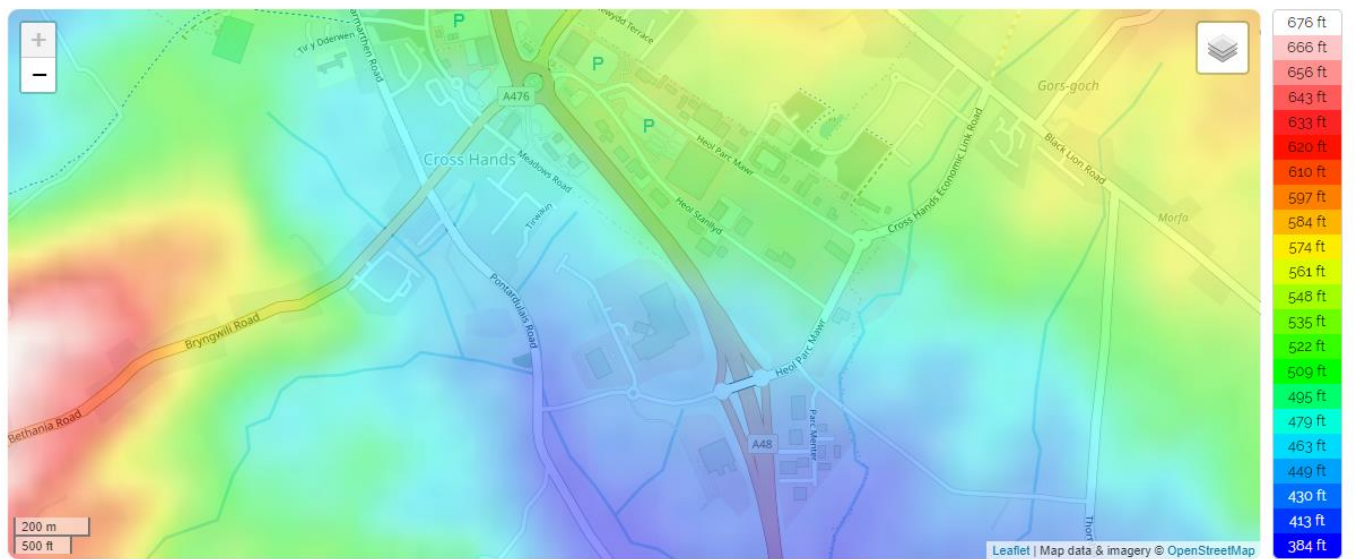
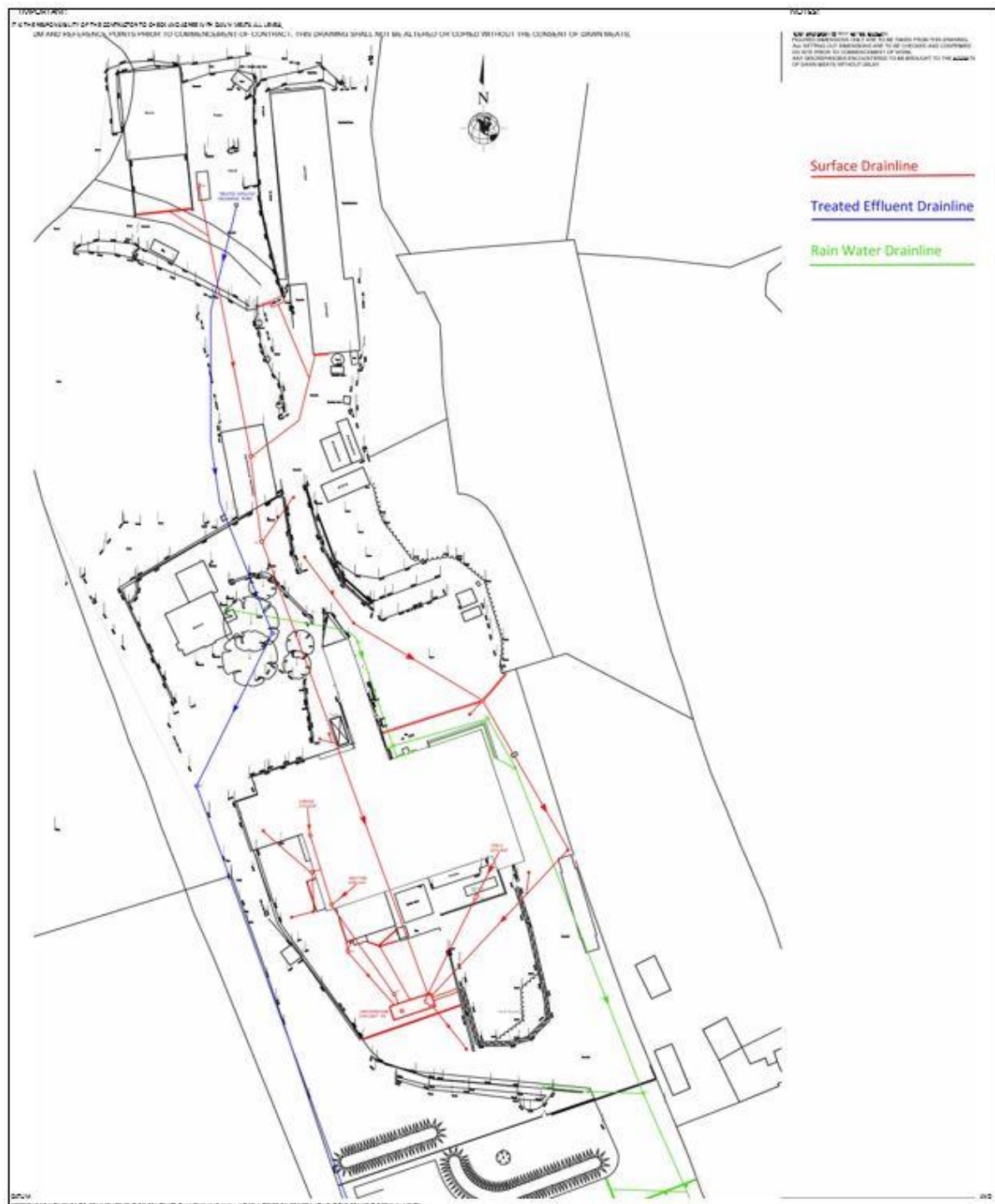


Figure 4 – Drainage Plan



APPENDIX A – HAZARDOUS SUBSTANCES USED AND PRODUCED OR RELEASED AT SITE.

Factory floor

Substance	Haz. Codes	Cas. Number	Details of substance or mixture	Location and description of use	Likely amount stored
3M Clean Trace Surface ATP	n/a	n/a	No hazardous ingredients	Used for swabbing surfaces	100 x 5ml
3M Formula 14 LSE Enzyme	n/a	n/a	No hazardous ingredients	Used for swabbing surfaces	100 x 5ml
Active (HLA28)	H290, H314, H318, H373, H400, H411	64-02-8 2372-82-9 1300-72-7 68131-39-5 1310-73-2	Ethylenediaminetetraacetic Acid Tetrasodium salt, N-(-3-Aminopropyl)-N-Dodecylpropane-1,3-Diamine, Sodium Aryl Sulphonate	Used within the HP wash system as a disinfectant	48 x 25L
Aggress (HLA25)	H290, H314, H318	1310-73-2 1300-72-7 68891-38-3 1002-62-6 1984-06-1 112-53-8	Sodium Hydroxide, Sodium Aryl Sulphonate, Sodium Alkyl Ether Sulphate, Sodium Decanoate, Sodium Octanoate, 1-Dodecanol	Used within the HP wash system. Caustic Detergent used for cleaning the travel oven	48 x 25L
Bootwash (HLB8)	H290, H314, H318, H412	6834-92-0 308062-28-4 1984-06-1 1310-73-2 64-02-8 68891-38-3	Disodium metasilicate, Alkyl Dimethyl amine oxide, Sodium Octanoate, Sodium hydroxide, ethylenediaminetetraacetic acid tetrasodium, sodium ether sulphate	Cleaning and preventing corrosion in the chiller and evaporators	4 x 25L

Substance	Haz. Codes	Cas. Number	Details of substance or mixture	Location and description of use	Likely amount stored
Cold Shield (HLC79)	H226, H302, H315, H318, H400, H412	68131-39-5 112-34-5 64-17-5 894406-76-9 67-63-0 68424-85-1 67-56-1	Alcohol Ethoxylate, 2-(2-Butoxyethoxy)ethanol, Ethanol, N,N Didecyl-N,N Dimethylammonium Carbonate, Propan-2-OL, Alkyl Benzyl dimethyl ammonium Chloride, Methanol,	Disinfectant used for non-food contact surfaces i.e. floors	8 x 5L
Floor Cleaner Plus	H315, H318	64-02-8 1310-73-2	Ethylenediaminetetraacetic Acid Tetrasodium salt, Sodium alkyl ether sulphate	Descaling detergent Production shop floor on the non-food contact surfaces	8 x 25L
Holphos	H290, H314	7664-38-2 90170-43-7	Phosphoric Acid, Beta-Aline, N-(2 Carboxyethyl)-N-Dodecyl Mono Sodium Salt	Detergent production shop floor	4 x 25L
Holsolve (HLH16)	H315, H318	6834-92-0 64-02-8 68891-38-3 1984-06-1 1002-62-6 308062-28-4 1310-73-2	Disodium Metasilicate, Ethylenediaminetetraacetic Acid Tetrasodium. Sodium Alkyl Ether Sulphate. Sodium Octanoate. Sodium Decanoate. Alkyl Dimethyl Amine Oxide. Sodium Hydroxide.	Used as a detergent / disinfectant through the HP wash system	5 x 25L
Impact QF (HLI6) Replaced Dual	H315, H318, H400, H411	64-02-8 2372-82-9 1300-72-7	Ethylenediaminetetraacetic Acid Tetrasodium, N-(3-Aminopropyl)-N-Dodecylpropane-1,3-, Sodium Aryl Sulphonate	Hand sanitiser used for hand washing	1 IBC
Luxsan (HLL6)	H226, 319	64-17-5 67-63-0	Ethanol, Propan-2-ol	Foam detergent used through the satellite system for cleaning	10 x 5L

Substance	Haz. Codes	Cas. Number	Details of substance or mixture	Location and description of use	Likely amount stored
Maxifoam Acid (HLM7)	H290, H314	7664-38-2 112-34-5 90170-43-7 5949-29-1 526-95-4 112-53-8	Phosphoric Acid, 2-(Butoxyethoxy)Ethanol, Beta Alanine, N-(2 Carboxyethyl)-N-Dodecyl Mono Sodium Salt, Citric Acid, Gluconic Acid, 1-Dodecanol,	Acid detergent	6 x 25L
Optimum Chlorine release tablets - Holtabs (OPTK16)	H302, H319, H335, H400, H410	2893-78-9 124-04-9	Dichloroisocyanuric Acid Salts, Adipic Acid	Dissolves in water and acts as a bleaching and disinfectant agent for the drainage system	5 Buckets
Optimum label and mark remover - tri solve (OPTA14)	H319	112-34-5	2-(2-Butoxyethoxy)Ethanol	Solvent used for the removal of labels and marker	3 boxes
Optimum Laundry Boost Liquid (OPTL4)	H290, H314, H318	1310-73-2	Sodium Hydroxide.	Detergent used for washing protective clothing in the laundry room	15 x 20L
Optimum Laundry Emlusifier Liquid (OPTL6)	H302, H318	68439-46-3 64-17-5 67-56-1	C9-11 Alcohol Ethoxylate with 6.5M Ethylene Oxide, Ethanol, Methanol.	Emulsifier used for washing protective clothing in the laundry room	15 x 20L
Optimum M8 Hand Mousse (HLM28)	n/a	n/a	None identified on SDS – All substances suitable for use in Cosmetic Regulated Products.	Used to clean / wash hands	20 x 10L
Optimum virucidal disinfectant RTU (OPTA23)	n/a	7173-51-5 584-08-7 67-63-0 141-43-5	Didecyltrimethylammonium chloride, Potassium Carbonate, Propan-2-ol, 2-Aminoethanol	Disinfectant use on non-food contact surfaces	60 x 1L

Substance	Haz. Codes	Cas. Number	Details of substance or mixture	Location and description of use	Likely amount stored
Optimum Washroom Cleaner and Disinfectant - RTU (OPTA2/6T)	n/a	n/a	N/A	Disinfectant use in toilets	11 box (6 per 1L)
Oven Gel (HLO1)	H290, H314, H318, H412	1310-73-2 3332-27-2 68891-38-3 1300-72-7 68131-39-5	sodium hydroxide, alkyl dimethyl amine oxide, sodium aryl sulphonate, sodium alkyl ether sulphate, ethoxylated alcohol	Detergent gel used for spot cleaning in the ovens	6 x 25L
PA1	N/A	N/A	N/A	Concentration test kit	1 x 500ml
PA2	H315, H319	7664-93-9	Sulphuric Acid	Concentration test kit	1 x 500ml
Reveal 3-D for Gluten - Rapid Extraction buffer, type 4	H226	64-17-5	Ethanol	Gluten testing kit	50 x 5ml
Reveal 3-D Mustard	H300, H400, H410	26628-22-8	Sodium Azide	Testing kit	50 x 5ml
Sodium Hypochlorite (HLH22)	H290, H314, H318, H400, H411	7681-52-9 1310-73-2	Sodium Hypochlorite Solution, 15%, Sodium Hydroxide	Detergent disinfectant Production shop floor	1 x 1200L
Sodium Thioulsulphate Crystals	N/A	N/A	N/A	Testing crystals	1 x 10g
TA02	H302, H315, H319, H400, H410	7758-98-7	Copper Sulphate	Testing kit	1 x 500ml

Substance	Haz. Codes	Cas. Number	Details of substance or mixture	Location and description of use	Likely amount stored
TA1	N/A	N/A	N/A	Testing kit	1 x 500ml
TWS (HLT4)	H290, H314, H318	1310-73-2	Sodium Hydroxide	Used in tray wash machine as a caustic detergent	1 x 240L 14 x 25L

Hygiene and general cleaning of other areas

Substance	Haz. Codes	Cas. Number	Details of substance or mixture	Location and description of use	Likely amount stored
Active Powerclean ACT66	n/a	111-76-2 6834-92-0	2-Butoxyethanol, Sodium Metasilicate	stairs and flooring in non-production areas	36 x 5L
Fairy Washing Up Liquid	H319, H412	1231880-35-5 68891-38-3 308062-28-4 85586-07-8	Sodium Lauryl Sulphate, Sodium C12-14 Pareth-3 Sulfate, Lauramine Oxide, Sodium C12-14 Alkyl Sulfate	Canteen facilities for washing dishes	10 x 433ml
Glade Aerosol Lavender	H222, H229	7558-79-4, 231-448-7 7778-77-0 / 231-913-4 112-03-8 / 203-929-1	Disodium Hydrogenorthophosphate, potassium dihydrogenorthophosphate, trimethyloctadecylammonium chloride	Used across the site in the toilets	10 x 500ml
Hand Sanitiser Foam - Unperfumed	n/a	n/a	Aqua, Cocamine oxide, Cocamide DEA, Glycerin, Didecyldimonium chloride, Benzalkonium Chloride, PPG 2 Methyl Ether, Diazolidinyl Urea, Methyl Paraben, Propyl Paraben, Propylrnr Glycol, Aloe Barbadensis	Across site to sanitise hands	10 x 10L

Substance	Haz. Codes	Cas. Number	Details of substance or mixture	Location and description of use	Likely amount stored
Merlin Cream Cleaner	n/a	68603-42-9 85711-69-9 2634-33-5	Coconut Diethanolamide, Sodium Alkane Sulphonate, Alcohol Ethoxylate, 1,2-Benzisothiazol- 3(2H)-One,	Used across the site in the toilets	10 x 1L
Optimum Glass Cleaner	n/a	76-73-0 107-41-5	Propan-2-OL, 2-Methylpentane-2,4-diol	nonproduction area cleaning windows	6 box (6 x 1L)
Optimum Laundry Liquid Destain (OPT L5)	H272, H314	7722-84-1	Hydrogen Peroxide Solution	Detergent used for washing protective clothing in the laundry room	15 x 10L
Optimum Laundry Liquid Detergent (OPT L3)	H290, H314, H318	68002-97-1 85117-50-6 68908-44-1 1310-73-2	C10-16 Ethoxylated Alcohol, Sodium Salt of Benzene Sulphonic acid mono, C10-14 alkyl derivatives, Sulphuric acid mono C10-16 alkyl esters with ethanolamine, Sodium Hydroxide.	Detergent used for washing protective clothing in the laundry room	15 x 20L
Optimum M9 Hand Care (HLM29)	n/a	n/a	Aqua, Petrolatum, Glycerine, TEA stearate, Glyceryl stearate, Paraffinium liquidium, Zinc stearate, Diazolidinyl urea, Methylparaben, C10-C30 alkyl acrylate crosspolymer, Polyparaben, Polyquaternium-7, Triclosan.	Across site for hand wash	4 x 5L
Optimum Toilet Cleaner & Descaler (OPTA4)	H315, H318, H412	7664-38-2 68439-46-3 68424-85-1	Phosphoric Acid, Alcohol (C9-C11)Ethoxylate (8EO), Alkyl Benzyl Dimeethyl Ammonium Chloride	Used to clean toilets	10 box (6 per 1L)
Optimum Virucidal Disinfectant RTU	n/a	7173-51-5 584-08-7 67-63-0 141-43-5	Didecylidimethylammonium chloride, Potassium Carbonate, Propan-2-ol, 2-Aminoethanol	Desinfectant use on non-food contact surfaces	16 box (6 x 1L)
QRD Sanisafe 3 Wipe	H319	67-63-0 139734-65-9	Propan-2-OL, N-alkyl Aminopropyl Glycine	Used throughout site as general cleaning wipes	60 bags

Substance	Haz. Codes	Cas. Number	Details of substance or mixture	Location and description of use	Likely amount stored
Raid Fly & Wasp Killer 300ml	H220, H280, H302, H304, H331, H400, H410	75-28-5 64742-48-9 74-98-6 26046-85-5 23031-36-9	Isobutane, Naptha (petroleum), hydrotreated heavy, Propane, 1R-trans phenothrin, Prallethin	Used in office areas to remove flies	5 x 300ml
Revive (HLR4)	H290, H302, H315, H318	506-89-8	Organic Salt of a mineral acid.	Clean the travelling oven	10 box (2 x 5)
Swarfega Jizer Bio	n/a	6834-92-0 68-43-9 14960-06-6 111-42-2 64-02-8 61791-47-7	Sodium Metasilicate, C9-C11 Alcohol Ethoxylate + 6 Moles Ethylene Oxide, Sodium Lauriminodipropionate, Diethanolamine, Tetrasodium Ethylene Diamine Tetraacetate, Dihydroxyethyl Cocamine Oxide	flooring in intake area, degreaser	4 x 5L

Kitchen areas

Substance	Haz. Codes	Cas. Number	Details of substance or mixture	Location and description of use	Likely amount stored
Cif Professional Cream	H319	25155-30-0 497-19-8 68131-39-5 2634-33-5	Sodium Alkylbenzenesulphonate, Sodium Carbonate, Alkyl Alcohol Ethoxylate, 1,2-Benzisothiazol-3(2H)-one	For hard surfaces, porcelain, plastics, stainless steel bathroom fittings, work surfaces etc. In the cupboard next to the main sink	1 x 500ml
Desguard 20	n/a	68424-85-1 2372-82-9 110615-47-9 68515-73-1	Benzalkonium chloride, N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine, Alkylpolyglycosides, Alkylpolyglycosides.	Cleaning disinfectant for surfaces	1 x 1L

Substance	Haz. Codes	Cas. Number	Details of substance or mixture	Location and description of use	Likely amount stored
Greasestrip Plus	H314	1310-73-2 141-43-5 68955-55-5	Sodium hydroxide, ethanolamines, alkylamineoxides	Detergent for grills and fryers. In the cupboard next to the main sink	1 x 1.3L
Holsolve (HLH16)	H315, H318	6834-92-0 64-02-8 68891-38-3 1984-06-1 1002-62-6 308062-28-4 1310-73-2	Disodium Metasilicate, Ethylenediaminetetraacetic Acid Tetrasodium. Sodium Alkyl Ether Sulphate. Sodium Octanoate. Sodium Decanoate. Alkyl Dimethyl Amine Oxide. Sodium Hydroxide.	Detergent used for general cleaning	1 x 1L
Liquid Quartz	n/a	001310-73-2 068891-38-3 009043-30-5	Sodium Hydroxide, Sodium Alkyl Ether Sulphate, Tridecyl Alcohol Ethoxylate	Coffee machine cleaner	1 x 1L
Luxsan (HLL6)	H226, H319	64-17-5 67-63-0	Ethanol, Propan-2-ol	Hands sanitiser used at sink and touch points	2 x 5L
Merrychef Oven Protector	H315, H319	8013-05-6	Fatty Acids, Caster Oil. Potassium Salts	Cleans the oven - Under the sink by the middle island	1 x 750ml
Optimum M8 Hand Mousse (HLM28)	H319	683-10-3	Lauryl Betaine	Hand foam used when washing hands at sinks	1 x 10L
Optimum oven mousse (OPTK21)	H314, H318	1310-73-2 61791-46-6	Sodium Hydroxide, N-alkyl "tallow" n,n-bis hydroxyethyl amine oxide	NPD ovens	24 X 1L
Optimum virucidal disinfectant RTU (OPTA23)	n/a	7173-51-5 584-08-7 67-63-0 141-43-5	Didecyldimethylammonium chloride, Potassium Carbonate, Propan-2-ol, 2-Aminoethanol	Disinfectant spray used for cleaning tables and surfaces	4 x 1Litre bottle

Substance	Haz. Codes	Cas. Number	Details of substance or mixture	Location and description of use	Likely amount stored
Professional Supplies Pro 2 Concentrated Cleaner Sanitiser (14341)	H315, H318, H412	160901-19-9 68424-85-1 3655-00-3 1310-58-3	Fatty Alcohol Ethoxylate, Benzalkonium Chloride, Alkylamine Dicarboxylate, Potassium Hydroxide	Used for disinfecting surfaces	4 x 2Litre
Professional Supplies Pro Kitchen Super Concentrated Cleaner Degreaser (72510)	H315, H318, H412	160901-19-9 68424-85-1 3655-00-3 1310-58-3	Fatty Alcohol Ethoxylate, Benzalkonium Chloride, Alkylamine Dicarboxylate, Potassium Hydroxide	Used for cleaner fryers, ovens and cooking machinery	2 x 5Litre
Professional Supplies Pro Rinse Universal Ware Washing Rinse Aid (96728)	n/a	67-63-0 77-92-9	Fatty Alcohol Ethoxylate Polymer, Propan-2-OL, Citric Acid	Used in Dishwasher at end of cleaning cycle	4 x 5Litre
Professional Supplies Pro Wash Universal Ware Washing Detergent (97480)	H314, H318	1310-73-2	Sodium Hydroxide	Detergent used in the dishwasher	4 x 5Litre
Professional Supplies Pro 2 Washing Up Liquid (14381)	H319	68411-30-3 160901-19-9	Sodium Dodecyl Benzene Sulphate, Fatty Alcohol Ethoxylate.	Used for washing up in the sink (pots and pans)	4 x 2Litre
QRD Sanisafe 3 Wipe	H319	67-63-0 139734-65-9	Propan-2-OL, N-alkyl Aminopropyl Glycine	Used throughout site as general cleaning wipes	4 large bags
Super Biological Automatic Washing Powder	H319	497-19-8 10486-00-7 1344-09-8 68131-39-5 85117-50-6	Sodium Carbonate, Sodium Perborate, Sodium Silicate Crystals, C12-15 fatty alcohol 7mol eo, Sodium Alkyl (C10-C14) Benzene Sulphonate	Wash clothes. Under the sink in the middle island	1 tub – 10kg

Substance	Haz. Codes	Cas. Number	Details of substance or mixture	Location and description of use	Likely amount stored
Super Concentrated Detergent Green (5L)	H319, H412	68891-38-3 308062-28-4 52-51-7	C12-C14- Alkyl Ether Sulfates, Amines, C12-C14 - Alkyld imethyl, N-Oxides, Bronopol (INN)	Detergent used for washing dishes in the sink	2 bottle x 1.1L
Toprinse Jet	n/a	68551-13-3 28348-53-0 111905-53-4	Fattyalcohol ethoxylates=/ $\leq$ C15 and =/ $\leq$ 5EO. Sodiumcumenesulphonate. Alcohol ethoxylate	Neutral additive for dishwashing	1 x 1L
Trump Hydro Special	H314	1310-73-2 29329-71-3	Sodium Hydroxide, phosphonates	Machine washing detergent. Next to the dishwasher	1 x 5l

DAF plant and boilers

Substance	Haz. Codes	Cas. Number	Details of substance or mixture	Location and description of use	Likely amount stored
Aquatreat AP Antifoam	n/a	n/a	Polydimethylsiloxane	Automatically dosed into the wastewater treatment plant to prevent foaming - DAF	20 Litre drums 16 drums
Aquatreat AquaBrom	H272, H302, H314, H400	16079-88-2	1 bromo-3-chloro-5,5, Dimethyl hydantoin, Boric Acid	Automatic dosing into condensers to prevent bacterial growth	50 Litre x 2
AquaTreat Z208CT	H315, H319	n/a	Neutralised Polyacrylic Acid	Condenser chemical used to prevent scale corrosion	50 Litre x 2
AquaTreat 180 (Boiler treatment)	H314	7681-57-4 1310-58-3 68915-31-1	Sodium Metabisulphite, Potassium hydroxide, Sodium Hexametaphosphate	alkalinity builder, sludge conditioner and oxygen scavenger for the boilers.	100 Litre x1
AquaTreat 319 (As part of Chlorine Dioxide treatment)	H302, H315, H319, H335	7758-19-2	Sodium Chlorite	Used to generate chlorine dioxide for water treatment	200 Litre x1
AquaTreat 320	H315, H319	n/a	Hydrochloric Acid	Used to generate chlorine dioxide for water treatment	200 Litre x1
AquaTreat 602x	H290, H314	7446-70-0 7647-01-0	Aluminum Chloride, Hydrochloric Acid	Used as a coagulant in the wastewater treatment plant	1000 Litre IBC x1
Sodium Hydroxide 32%	H290, H314	1310-73-2	Sodium Hydroxide	pH control in DAF	1000 Litre IBC x1

Engineering

Substance	Haz. Codes	Cas. Number	Details of substance or mixture	Location and description of use	Likely amount stored
3 in 1 Anti seize copper grease	H304, H412, H22, H229	64742-49-0	Hydrocarbons, C6, isoalkanes, Hydrocarbons, C7, n-alkanes, cyclics	Facilities workshop grease	4 x 500ml
Activate Foodcare 100H1	N/A	N/A	N/A	Engineering Stores, Oil Lubricant	1 x 25 ltr
Activate Foodcare 220H1	N/A	N/A	N/A	Engineering Stores, Oil Lubricant	1 x 25 ltr
Activate Foodcare 32H1	N/A	N/A	N/A	Engineering Stores, Oil Lubricant	1 x 25 ltr
Activate Foodcare 3H Grease	N/A	N/A	N/A	Engineering Stores, Lubricants, Greases, Release products.	1 x 18 ltr
Activate Foodcare Antiseize	N/A	80939-62-4	Amines, C11-14-Branched Alkyl, Monoethyl and Diethyl Phosphates.	Engineering Stores Lubricants, Greases, Release products	12 x 350ml
Activate Foodcare Blade Shield	H222, H229	8042-47-5 68476-85-7	White Mineral Oil, Hydrocarbon Aerosol Propellant (<0.1 Butadiene)	Engineering Stores Direct Contact Grease	12 x 350ml
Activate Foodcare Degreaser	H222, H229' H319, H336	68476-85-7 67-63-0 124-38-9	Hydrocarbon aerosol propellant (<0.1 butadiene) Hydrocarbons, C10-C12 isoalkanes <2%aromatics, Hydrocarbons C11-C13 isoalkanes, <2% aromatics, Propan-2-ol, Carbon Dioxide	Engineering Stores Solvent Cleaner	12 x 350ml
Activate Foodcare Eazi-Glide	N/A	N/A	N/A	Engineering Stores Lubricating Oil	12 x 350ml
Activate Foodcare FC9 00	N/A	80939-62-4	Amines, C11-C14-Branched Alkyl, Monoethyl and Diethyl Phosphates	Engineering Stores Lubricants, Greases, Release products	12 x 350ml

Substance	Haz. Codes	Cas. Number	Details of substance or mixture	Location and description of use	Likely amount stored
Activate Foodcare HF4	N/A	N/A	N/A	Engineering Stores Lubricating Oil	12 x 350ml
Activate Foodcare High Load	H222, H229, H412	68476-85-7 109-66-0	Hydrocarbon aerosol propellant (0.1 butadiene) Hydrocarbons, C10-C12 isoalkanes <2% aromatics, n-Pentane.	Engineering Stores Lubricant, General Machinery	12 x 350ml
Activate Foodcare High Tack Oil	H222, H229	68476-85-7	Hydrocarbon aerosol propellant (<0.1 butadiene,	Engineering Stores Lubricant- General	12 x 350ml
Activate Foodcare Longlife	H319	N/A	Benzenesulfonic acid, C10-16- alkyl derivs, calcium salts. <5% Classification:XI R38	Engineering Stores Lubricants, Greases, Release products	12 x 350ml
Activate Foodcare Moisture Repellent	H222, H229,	68476-85-7 124-38-9	Hydrocarbon aerosol propellant (0.1 Butadiene), Hydrocarbons C11-C13 isoalkanes, <2% aromatics, Carbon Dioxide	Engineering Stores Dewatering Aid - General	12 x 350ml
Activate Foodcare Penetrating Oil	H222, H229	68476-85-7	Hydrocarbon Aerosol Propellant (<.1 Butadiene)	Engineering Stores Lubricating Oil	12 x 350ml
Activate Foodcare Silicone Spray	H222, H229	68476-85-7 64-17-5	Hydrocarbon Aerosol Propellant (<.1 Butadiene), Hydrocarbons, C10-C12 isoalkanes <2%aromatics, Hydrocarbons C11-C13 isoalkanes, <2%aromatics, Ethanol.	Engineering Stores Lubricant, General Machinery	12 x 350ml
Activate Foodcare Spray Grease	H222, H229, H412	68476-85-7 67-63-0 124-38-9	Hydrocarbon aerosol propellant (<0.1 butadiene, Hydrocarbons, C10-C12 Isoalkanes <2% aromatics, Propan-2-ol, Carbon Dioxide	Engineering Stores Lubricant, General Machinery	12 x 350ml
Activate Foodseal White LMN Silicone Sealant	N/A	N/A	N/A	Engineering Stores Sealant	12 x 300ml
Amberclens	H222, H229, H319	68512-91-4 107-98-2 67-63-0 137-16-6	Hydrocarbons, C3-4-rich, petroleum distillate Petroleumgas (1,3-butadiene<0.1%, 1-methoxy-2-propanol, monopropylene glycol methyl ether, propan-2-ol,isopropyl alcohol,isopropanol,	Engineering Stores	400ml x 5

Substance	Haz. Codes	Cas. Number	Details of substance or mixture	Location and description of use	Likely amount stored
			Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics, Glycine, N-methyl-N-(1-oxododecyl)-, sodium salt.	Aerosol	
Autol Top 2000 Fettspray	H222 - H229, H315, H336, H411	106-97-8 109-66-0 110-82-7 74-98-6 75-28-5 110-54-3 4259-15-8	Butane, Pentane, Hydrocarbons, C6 isalkanes, Cyclohexane, Propane, Hydrocarbons C6 - C7, isoalkanes, cyclics, Isobutane, N-hexane, Zinkdialkyldithiophosphat	Engineering Stores Spray	3 x 500ml
Label Remover	H222, H229, H315, H319, H317, H336, H412	68476-85-7 8028-48-6 67-63-0 111-76-2	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2%. Petroleum gases, liquified. Orange, sweet, ext. Propan-2-ol, 2-butoxyethanol	Used across site for removing labels	12 x 350ml
Phone-clene wipes	n/a	67-63-0	Propan-2-OL	Used across offices to clean phones	300 x 5ml sachets
Screen clene Tub 100 wipes	n/a	n/a	No hazardous materials	Used across offices to clean screens	10 tubs
Alpha Adhesive Thixofix (Toluene free)	H225, H315, H319, H335, H336, H410	110-82-7 78-93-3 64742-49-0 67-64-1 141-78-6 8050-09-7	cyclohexane, methyl ethyl ketone, naphtha petroleum, light, hydrotreated, acetone, ethyl acetate, rosin-colophony	Facilities workshop Adhesive	3 x 250ml
Ambersil Bright Cold Galvanise	H222, H229, H336, H373, H411	115-10-6 141-78-6 123-86-4 1314-13-2 96-29-7	Dimethyl ether, ethyl acetate, Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclic, n-butyl acetate, zinc oxide, Hydrocarbons, C9, aromatics, Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics, 2-butanone oxime; ethyl	Facilities workshop Protective coating	4 x 400ml

Substance	Haz. Codes	Cas. Number	Details of substance or mixture	Location and description of use	Likely amount stored
			methyl ketone oxime		
Ambersil Food Grease FG	H222, H229, H412	68512-91-4 287-92-3	Hydrocarbons, C3-4-rich, petroeuem distillate Petroleumgas (1,3-butadiene <0.1%). Cyclopentane. Hydrocarbons, C6, isoalkanes, <5% n-hexane	Engineering workshop used as grease aerosol	4 X 400ml
Ammonia Anhydrous	H221, H280, H314, H331, H410	7664-41-7	Ammonia NH3	Used across site for refrigeration	8 tonnes
Aqua Treeat EU 60	n/a	68439-45-2	Alcohol ethoxylate	Chemical stores Drain cleaner	1 x 50 ltr
Bondloc B2060 60 sec Epoxy hardener	H332, H314, H318, H317	3033-62-3	Polyamine-polymercaptan Blend	Facilities workshop Resin / adhesive	1 x stick
Bondloc 5299 High Temp Sealant	n/a	n/a	n/a	Facilities workshop Sealant	1x 310ml
Bondloc B2001 Metal Epoxy Stick	H315, H319, H317, H412	14807-96-6 25068-38-6	Talc (Mg3H2(SiiO3)4) reaction product: bishphenol-A-(epichlorhydrin)	Facilities workshop Metal putty	1 x 50g
Bondloc B2003 Plastic Epoxy Stick	H317	14807-96-6 13463-67-7 90-72-2	Talc (Mg3H2(SiiO3)4), Titanium dioxide, 2,4,6- tris(dimethylaminomethyl)phenol	Facilities workshop Plastic putty	1 x 50g
Bondloc B2060 60 sec Epoxy Resin	H319, H317, H411	25085-99-8	Epoxy resin (Epichlorohydrin, bisphenol A)	Facilities workshop Resin	1 x 28ml
Bondloc B222 Screwlock	H315, H319, H317, H335	41637-38-1 26570-48-9 923-26-2	Ethoxylated Bisphenol A Dimethacrylate, Polythene Glycol 200 Dimethacrylate, 2- hydroxypropyl methacrylate, a,a,-dimethylbenzyl	Facilities workshop Thread locker for hand tools	1 x 50ml

Substance	Haz. Codes	Cas. Number	Details of substance or mixture	Location and description of use	Likely amount stored
		80-15-9 114-83-0	hydroperoxide, 1-Acetyl-2phenylhydrazine		
Bondloc B242 Nutlock	H315, H319, H317, H335	41637-38-1 923-26-2 80-15-9 110-16-7 114-83-0 13463-67-7	Ethoxylated Bisphenol A Dimethacrylate, 2-hydroxypropyl methacrylate, a,a,-dimethylbenzyl hydroperoxide, maleic acid, 1-Acetyl-2phenylhydrazine, titanium Dioxide	Facilities workshop Nutlock	1 x 50ml
Bondloc B270 Studlock	H315, H319, H317, H335	41637-38-1 923-26-2 80-15-9 110-16-7 114-83-0	Ethoxylated Bisphenol A Dimethacrylate, 2-hydroxypropyl methacrylate, a,a,-dimethylbenzyl hydroperoxide, maleic acid, 1-Acetyl-2phenylhydrazine	Facilities workshop lock thread	1 x 50ml
Bondloc B401 Cyanoacrylate Adhesive	H315, H319, H335	7085-85-0 123-31-9	Ethyl-2-cyanoacrylate, 1,4-dihydroxybenzene	Facilities workshop Adhesive	1 x 20ml
Bondloc B574 Instant Gasket	H315, H319, H317, H335	41637-38-1 26570-48-9 923-26-2 80-15-9 13463-67-7 114-83-0	Ethoxylated Bisphenol A Dimethacrylate, Polyethylene Glycol 200 Dimethacrylate, 2-hydroxypropyl methacrylate, a,a,-dimethylbenzyl hydroperoxide, titanium dioxide, 1-Acetyl-2-phenylhydrazine	Facilities workshop adhesive	1 x 50ml
Bondloc B577 Pipeséal	H315, H319, H317, H335	41637-38-1 26570-48-9 923-26-2 80-15-9 13463-67-7 114-83-0	Ethoxylated Bisphenol A Dimethacrylate, Polyethylene Glycol 200 Dimethacrylate, 2-hydroxypropyl methacrylate, a,a,-dimethylbenzyl hydroperoxide, titanium dioxide, 1-Acetyl-2-phenylhydrazine	Facilities workshop Used on pipes in the factory	1 x 50ml

Substance	Haz. Codes	Cas. Number	Details of substance or mixture	Location and description of use	Likely amount stored
Bondloc B660 Metal Fill Retainer	H315, H319, H317, H335	41637-38-1 923-26-2 80-15-9 110-16-7 114-83-0 13463-67-7	Ethoxylated Bisphenol A Dimethacrylate, 2-hydroxypropyl methacrylate, a,a,-dimethylbenzyl hydroperoxide, maleic acid, 1-Acetyl-2-phenylhydrazine, Titanium Dioxide.	Facilities workshop Adhesive	1 x 50ml
Boss ABS pressure solvent cement	H319, H225, H336	78-93-3	methyl ethyl ketone	Facilities workshop solvent for fittings in pressure systems	3 x 1ltr
Bostic evo stik gripfill	H315, H319, H336, H412, H225	1330-20-7 200-662-2 927-510-4 931-254-9 202-849-4	Xylenes (o-, m-, p- isomers), Acetone, Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics, Hydrocarbons, C6, isalkanes, <5% n-hexane, Ethylbenzene	Facilities workshop Adhesive grip fill	2 x 1ltr
Bostik 100HMA Bondflex	n/a	12865-07-5 4253-34-3 541-02-6 556-67-2 540-97-6 64359-81-5	Triacetoxyp(ropyl)silane, Silanetriol, methyltricetate, Decamethylcyclopentasil oxane, Octamethylcyclotetrasiloxane, Dodecamethylcyclohexasiloxane, 4,5-dichloro-2-uctyl-2H-isothiazol-2-one	Facilities workshop Sealant	1 x 1ltr
Bostik Evo-Stik Plumbers Mait	H317	8042-47-5 64762-55-8 5395-50-6 55965-84-9	White mineral oil, petroleum, Distillates, petroleum, hydrotreated light paraffinic (IP346 <3% DMSO), Imidazo[4,5-d] imidazole-2,5(1H,3H)-dione,tetrahydro-1,3,4,6-tetrakis(hydroxymethyl)-. Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) [C(M)IT/MIT]	Facilities workshop sealant	1 x 1ltr
Bostik Marley KS10 solvent cement	H225, H319, H336	25068-38-6 78-93-3 108-94-1	Bisphenol A-Epichlorohydrin epoxy resin, Butanone, Cyclohexanone.	Facilities workshop sealant	2 x 1ltr

Substance	Haz. Codes	Cas. Number	Details of substance or mixture	Location and description of use	Likely amount stored
Bostik Mita PVC solvent weld	H225, H319, H336	25068-38-6 78-93-3 108-94-1	Bisphenol A-Epichlorohydrin epoxy resin, Butanone, Cyclohexanone.	Facilities workshop solvent weld	2 x 1ltr
Carbon Dioxide refrigerated	N/A	00124-38-9	Carbon dioxide	Stored in yard and used throughout refrigeration system	8 tonnes
Cassida Fluid HF 100	N/A	N/A	N/A	Engineering Stores Lubricant	1 x 22ltr
Copper Paste	N/A	7440-50-8	Copper, Mineral Oil with Additives.	Engineering Stores Lubricants	300ml x 12
Crown Trade Acrylic Eggshell	n/a	n/a	n/a	Facilities workshop used across site on walls	1 x 10ltr
Crown Trade Full Gloss	H226	64742-48-9 64742-48-9 96-29-7	naphtha (petroleum), hydrotreated heavy, hydrocarbons, C9-11, n-alkanes, isoalkanes, cyclics, <2% aromatics. 2-butanone oxime	Facilities workshop used across site on surfaces	1 x 1ltr
Denso Tape	n/a	n/a	No hazardous materials	Facilities workshop	4 x rolls
Dow Corning 781 Acetoxy Silicone Clear	n/a	556-67-2	Octamethylcyclotetrasiloxane	Facilities workshop Silicone	10 x tubes 310ml
Dow Corning 785 sanitary acetoxy silicone white	n/a	540-97-6 541-02-6	Dodecamethyl cyclohexasiloxane, Decamethylcyclopentasiloxane, octamethylcyclotetrasiloxane.	Facilities workshop Silicone	10 x tubes 310ml
Dow Corning 786 Silicone sealant - M White	n/a	7631-86-9 13463-67-7	Silicone elastomer	Facilities workshop Silicone	10 x tubes 310ml

Substance	Haz. Codes	Cas. Number	Details of substance or mixture	Location and description of use	Likely amount stored
Dow Corning 796 Silicone White	n/a	n/a	No hazardous materials	Facilities workshop Silicone	10 x tubes 310ml
Dowsil Fire stop sealant 700 white	n/a	27858-32-8	Silicone elastomer	Facilities workshop Silicone	5 x tubes 310ml
Dulux Matt	n/a	6846-50-0 2634-33-5 55965-84-9	1-isopropyl-2, 2-dimethyltrimethylene diisobutyrate, 1,2 benzisothiazol-3(2H	Facilities workshop used across site on walls	1 x 10ltr
Durapipe Eco Cleaner	H225	67-64-1 78-93-3	Acetone, butanone	Facilities workshop cleaner	1 x 500ml
Durapipe PVC Solvent Cement	H315 H335	109-99-9 108-94-1 78-93-3	Tetrahydrofuran, Cyclohexanone, butanone	Facilities workshop Solvent cement	1 x500ml
Electrolube Clear Protective Lacquer	H225, H312, H332, H319	67-63-0 1330-20-7	Propan-2-OL, Xylene,	Facilities workshop lacquer	4 x 440ml
Ever Build Jetcem Pothole repair rapid set cement	n/a	n/a	n/a	Facilities workshop filler	4 x tubes 10kg
Everbuild Building Mastic	n/a	927-344-2	Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	Facilities workshop Mastic	1 x 1ltr
Everbuild flexible decorators filler	H361d	6846-50-0 55965-84-9	1-isopropyl-2, 2-dimethyltrimethylene diisobutyrate. Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one	Facilities workshop filler	1 box 500g
Fiorio Colori Spa E151 Brilliant Blue v calcium salt	n/a	n/a	No hazardous materials	Intakes Food colouring	4 x 5L

Substance	Haz. Codes	Cas. Number	Details of substance or mixture	Location and description of use	Likely amount stored
FloPlast Solvent Cement	H225, H319, H336	78-93-03	Methyl Ethyl Ketone	Facilities workshop solvent adhesive floors	4 x 50ml
Fomblin Oil	N/A	69991-67-9	1-Propene,1,1,2,3,3,3,-hexafluoro-, oxidized, polymd.	Engineering Stores Oil	5 x 5kg
Geocel Trade Mate Plumba Flue Silicone	N/A	N/A	N/A	Engineering Stores Adhesives, Sealants	2 x 310ml
Go system Butane - Propane mix gas cartridge 2350	H220, H280	68476-85-7	Petroleum gases, liquified	Facilities workshop gas used for pipe welding	4 x cans 250ml
Great STUFF Pro Gun Foam B1 750ml	H222, H229, H315, H319, H334, H317, H351, H335, H373	9016-87-9 13674-84-5 101-68-8 115-10-6 75-28-5	Prepolymer of MDI and polyol, Diphenylmethane Diisocyanate, isomers and homologues, Tris(1-chloro-2-propyl) phosphate, 4,4'-methylenediphenyl diisocyanate, dimethyl ether, propane, Isobutane	Facilities workshop filler foam for cavities	4 x 750ml
Ground Force SAE 30 Premium Engine Oil	N/A	64742-54-7 64742-65-0 15220-87-8	Distillates, hydrotreated heavy paraffinic, Distillates (petroleum) solvent-dewaxed heavy paraffinic, polyolefin polyamine succinimide polol, propylene pentamer.	Engineering Stores Engine Oil	2 x 1ltr
Hammerite Brush cleaner & thinners	H226, H336, H304	108-94-1 123-86-4	Hydrocarbons, C9-C11, n-alkanes, isoalkaens, cyclics, <2% aromatics, cyclohexanone, n-butyl acetate	Facilities workshop Paint brush cleaner	1 x 1 ltr
Hammerite Direct To Rust Metal Paint Hammered	H226, H336, H412	7779-90-0 96-29-7	Hydrocarbons, C9-C11, Nn-alkanes, isoalkaens, cyclics, <2% aromatics, trizinc bis (orthophosphatw). Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics. 1-butanone oxime. Hydrocarbons, C11-C14, n-	Facilities workshop Metal paint	1 x1 ltr

Substance	Haz. Codes	Cas. Number	Details of substance or mixture	Location and description of use	Likely amount stored
			alkanes, isoalkanes, cyclics, <2% aromatics		
Hammerite Direct to rust Metal Paint Smooth	H226, H336, H412	64742-48-9 7779-90-0 2457-02-5 34590-94-8 15956-58-8 95-50-1	Naphtha, Hydrotreated Heavy, Zinc Phosphate Pigment, Solvent Naphtha, Light Aromatic, Calcium Carboxylate, 1,2,4-Trimethylbenzene, Cobalt Carboxylate, Ethyl Methyl Kentoxime, Mesitylene	Facilities workshop Metal paint	1 x 1 ltr
Hammerite Direct To Rust Metal Paint Smooth Aerosol	H222, H229, H315, H336, H412	68476-85-7 123-86-4 96-29-7	Petroleum gases, liquefied, Hydrocarbons, C6-C7, N-alkanes, Isoalkanes, Cyclics, <5% N-Hexane, Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics, n-butyl acetate, Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics <2% aromatics, 2-butanone oxime	Facilities workshop Metal paint	6 x 500ml
Hammerite Red Oxide Primer	H226, H336, H412	7779-90-0 96-29-7	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics, trizinc bis (orthophosphatw). Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics. 2-butanone oxime	Facilities workshop Metal paint	1 x 1 ltr
Hawk White 400g	n/a	1332-58-7	Kaolin	Facilities workshop Floor marker	2 400g
Johnstone Performance Semi-Gloss Topcoat	H226	64742-48-9 64742-48-9 64742-47-8 96-29-7 22464-99-9	Naptha (petroleum), hydrotreated heavy. Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics. Distillates (petroleum), hydrotreated light. Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics. 2-butanone oxime	Facilities workshop gloss paint	1 x 1 ltr
KBA Metronic Thermo Chronic Ink	H225, H301, H319, H336, H411	78-93-3 64-17-5 67-64-1	Butanone, Ethanol, Acetone, Methoxyphenyl, Formaldehyde, Dimethylamino	Production used in the printers	2 x 0.8L

Substance	Haz. Codes	Cas. Number	Details of substance or mixture	Location and description of use	Likely amount stored
		54060-92-3 83968-28-9 548-62-9			
KBA Metronic Thermo Chronic Solvent	H225, H319, H336	78-93-3 67-64-1	Butanone, Acetone	Production used in the printers	2 x 0.8L
Klubersynth Food Grade Lubricating grease UH1 14-1600	N/A	N/A	No hazardous materials	Lubricant for spiral freezer	1 x 25kg
Label and Adhesive Remover FG	H222, H229, H317, H315, H319, H336, H411	64-17-5 586-62-9 5131-66-8 124-38-9 67-63-0 78-93-3	Ethanol;ethyl alcohol, Terpinolene, Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics,<5% n-hexane, 3-butoxypropan-2-ol, propyleneglycol monobutyl ether,Hydrocarbons, C6-C7isoalkanes, cyclics, <5% n-hexane, Carbon Dioxide, Propan-2-ol, isopropyl alcohol isopropanol, butanone, ethyl methyl ketone.	Engineering Stores Cleaners Aerosol	400ml x 5
Leyland Trade Egg Shell	H226	64742-48-9 64742-48-9 64742-47-8 96-29-7	Naphtha (petroleum), hydrotreated heavy, hydrocarbons, C9-11, n-alkanes, isoalkanes, cyclics, <2% aromatics. Distillates (petroleum), hydrotreated light. Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics. 2-butanone oxime	Facilities workshop paint	1 x 10ltr
Leyland Trade High Gloss	H226	64742-48-9 64742-47-8 96-29-7	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics. Naptha (petroleum), hydrotreated heavy. Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics, 2-butanone oxime	Facilities workshop paint	1 x 2ltr

Substance	Haz. Codes	Cas. Number	Details of substance or mixture	Location and description of use	Likely amount stored
Loctite 243 Threadlocker	N/A	25852-47-5 2082-81-7 57-55-6 80-15-9 114-83-0 98-82-8	Polyglycol Dimethacrylate, Tetramethylene Dimethacrylate, Propane-1,2-diol, Cumene hydroperoxide, 1-Acetyl-2-phenylhydrazine Cumene.	Engineering Stores Adhesive that seals and secures nuts and bolts.	50ml x 5
Loctite 270	H315, H319, H317, H335, H412	7779-31-9 109-16-0 80-15-9 110-16-7 114-83-0 130-15-4	3,3,5 Trimethylcyclohexyl methacrylate, 2,2'-Ethylenedioxydiethyl dimethacrylate, Cumene hydroperoxide, Maleic acid, Acetic acid, 1-phenylhydrazide, 1,4-Naphthalenedione	Facilities workshop Adhesive	2 x 25ml
Loctite 620	H315, H317, H335, H412, H319,	3006-93-7 27813-02-1 80-15-9 613-48-9 110-16-7 609-72-3 114-83-0	N,N-(m-phenylene)dimalleimide, Hydroxypropyl methacrylate, Cumene hydroperoxide, N,N-Diethyl-p-toluidine, Maleic Acid, N,Ndimethyl-o-toluidine, Acetic acid, 2-phenylhydrazide, 1,4-Naphthalenedione	Engineering Stores Adhesive	50ml x 5
Loctite 638	H315, H317, H335, H412, H318	27813-02-1 79-10-7 109-16-0 80-15-9 79-41-4 114-83-0 868-77-9	Hydroxypropyl Methacrylate, Acrylic acid, 2,2'-Ethylenedioxydiethyl dimethacrylate. Acetic acid, 2-phenylhydrazide 2-Hydroxyethyl methacrylate	Facilities workshop Adhesive	1 x 25ml
Loctite 2400	N/A	N/A	N/A	Engineering Stores Adhesive	50ml x 5
Loctite 2700	N/A	N/A	N/A	Engineering Stores Anaerobic Adhesive	50ml x 5

Substance	Haz. Codes	Cas. Number	Details of substance or mixture	Location and description of use	Likely amount stored
Loctite SI 5399 RD CR310ML EN	H315, H319	4253-34-3 17689-77-9 556-67-2	Triacetoxyethylsilane, Methyltriacetoxysilane, Octamethylcyclotetrasiloxane	Facilities workshop silicone sealant	1 x 25ml
Loctite SI 5660 100ml EDFN	n/a	n/a	No hazardous materials	Facilities workshop silicone sealant	1 x 25ml
Lubricant NSF H1	H222, H229, H412	64742-49-0 106-97-8 75-28-5 74-98-6	Naphtha (Petroleum) Hydrotreated light, Butane, Isobutane, Propane	Engineering Stores Lubricating Grease	3 x 500ml
MAP PRO Promium hand torch fuel	n/a	115-07-1	Propylene	Facilities workshop used on hand torch	3 x cans 750ml
Marine Salt Delcing grade	n/a	7647-14-5	No hazardous materials	Pathway de-icer	200 bags 24 kg
Makem makeup A188-4	H319, H336, H225	78-93-3	Methyl Ethyl Ketone	Engineering Stores Ink	10 x 500ml
Markem Print Ink 9175	H319, H336	201-159-0 200-661-7 260-616-2 260-617-8 261-691-4 264-966-7	Methyl ethyl ketone, Nitrocellulose, Isopropyl alcohol, Chromate, nitrophenyl, naphalenolato, sodium, dimethylpropyl, hydroxy,	Engineering / production printers	10 x 500ml
Markem Top Up 8188	H319, H336, H225	78-93-3	Methyl Ethyl Ketone	Engineering / production printers	15 x 500ml

Substance	Haz. Codes	Cas. Number	Details of substance or mixture	Location and description of use	Likely amount stored
Markem wash solution 5100	H319, H336, H225	78-93-3	Methyl ethyl ketone	Engineering / production printers	15 x 500ml
Mobil SHC 624	n/a	68027-01-4 26444-49-5 115-86-6	Dimethyl Ether, Diphenylmethane-4,4-Di-isocyanate	Facilities workshop Gear oil	1 x 25kg
No Nonsense Fire Rated Expanding Foam	H332, H334, H317, H319, H335, H315, H224	115-10-6 101-68-8	Dimethyl Ether, Diphenylmethane-4,4-Di-isocyanate	Engineering Stores Foam Filler	2 x 750ml
Oxygen Refrigerated	n/a	07782-44-7	Oxygen	Stored in yard and used throughout refrigeration system	10 tonnes
PP Marine Filler 180ml EN	H226, H315, H319, H361d, H372	100-42-5	Styrene	Engineering Stores Filler Paste	5 X 180ml
Ravenwood Silco BC350	n/a	9006-65-9 9016-00-6 63148-62-9	Dimethyl polysiloxane, dimethyl(oxo)silane, dimethyl-bis(trimethylsilyloxy)silane	Facilities workshop Silicone	10 x 1ltr
Rocol Leak Detector Spray	H229, H319	124-38-9 68603-42-9	Amide Derivative	Facilities workshop pipe leaks	4 x 500ml
Rocol Safe Step 100 All Colours	H226, H315	1330-20-7 100-41-4 100545-48-0	Xylene, Ethylbenzene, octadecanoic acid	Facilities workshop paint	4 x 750ml
Ronseal Quick Drying Varnish	n/a	57-55-6	Propylene Glycol	Facilities workshop paint	1 x 1ltr

Substance	Haz. Codes	Cas. Number	Details of substance or mixture	Location and description of use	Likely amount stored
RS Butane Gas	H222	106-97-8 75-28-5 74-98-6	Butane, Isobutane, Propane	Facilities workshop Gas soldering	4 x 500ml
RS Cyanocrylate Adhesives	H335, H319, H315	7085-85-0 123-31-9	Ethyl-2- Cyanoacrylate, Hydroquinone	Facilities workshop Adhesive	2 x 25ml
RS Cyanolube	H315, H319, H335	7085- 85-0	Ethyl 2-Cyanoacrylate	Facilities workshop Adhesive	2 x 25ml
RS Pro Platen Cleaner	H304	90622-58-5 90622-57-4	Alkanes, C11-15-iso-, Alkanes, C9-12-iso-	Engineering Stores Cleaning Agent	3 X 400ML
RS Superglue Gel Activator	H225, H315, H411, H413	64742-49-0 99-97-8	Naptha Hydro treated light, Einecs, N.N - Dimethyl- P- Toluidine	Facilities workshop Adhesive	2 x 25ml
RS Surface Coating	H225, H315, H336, H04, 411	90622-56-3	C7-C10 ISO-Alkanes	Facilities workshop floor coating	2 x 25ml
RS Tool Cutting Fluid	H222, H336, H362, H411	106-97-8 85535-85-9 75-28-5 64742-52-5 64742-49-0 74-98-6 64742-82-1 1330-20-7	Butane, Chlorinated paraffin C14-C17 (51%), Isobutane, Mineral Oil, Naphtha (Petroleum) Hydro Treated Light, Propane, White Spirit, Xylene.	Facilities workshop Tool cutting fluid	4 x 500ml
Rustoleum epoxy shield sealer 5220	n/a	n/a	n/a	Facilities workshop Sealant	1x 5lt

Substance	Haz. Codes	Cas. Number	Details of substance or mixture	Location and description of use	Likely amount stored
Floor Paint 7100/7100NS	H226, H412, H413	64742-48-9 1314-13-2 64742-95-6 95-63-6	Naptha (petroleum), Hydrotreated Heavy, Zinc Oxide Naphtha (Petroleum) Hydrotreated Heavy, Solvent naphtha (petroleum) light aromatic, 1,2,4-Trimethylbenzene.	Facilities workshop Paint	1x 5lt
Rustoleum Thinner	H226, H312, H332, H315, H319, H335, H336, H373, H304	1330-20-7 107-98-2 100-41-4	Xylene, 1-methoxy-2-propanol. Ethylbenzene	Facilities workshop paint thinner	1x 2lt
Sapphire Hi-Power Range	N/A	64741-88-4 64742-62-7	Mineral Oil, Solvent refined oil	Engineering Stores Hydraulic and Compressor Oil	20L
Stag Jointing Paste	H225, H303, H333, H316, H319, H317	8011-48-1 9000-59-3 64-17-5	Ethyl alcohol	Facilities workshop Paste	2 tubes x 1ltr
Stanley Chalks	n.a	1317-65-3 14808-60-7	Limestone/calcium carbonate, Crystalline silica	Facilities workshop chalk	1 x box 5kg
SV 100 Aerosol	H222, H229, H312, H332, H315, H319	1330-20-7 68512-91-4 67-64-1	Xylene, Hydrocarbons, C3-4-rich, petroleum distillate petroleumgas (1,3-butadiene<0.1%) acetone, propan-2-one, propanone	Engineering Stores Aerosol	5 x 400ml
Traditional Craftsman's Flux	H314, H411, H413	231-141-8 231-592-0	Zinc Chloride (ZincChloride, Fume) Tin	Engineering Stores Jointing Copper Tubes	1 x coil 5kg
Videojet Make-up Fluid V7206-D	H225, H319, H336	78-93-3 67-64-1	Butanone, Acetone	Engineering Stores For use in continuous ink set process. Replaces solvents	2 x 1ltr

Substance	Haz. Codes	Cas. Number	Details of substance or mixture	Location and description of use	Likely amount stored
Videojet ink Fluid V411-D	H225, H319, H360D, H336	78-93-3 117527-94-3	Butanone, C.I. Solvent black 29	Engineering stores and on line printer ink	15 x 750ml
Videojet ink Fluid V211-D	H225, H319, H360D, H336	78-93-3 117527-94-3	Butanone, C.I. Solvent black 29	Engineering stores and on line printer ink	15 x 750ml
Videojet make up Fluid V706-D	H225, H319, H336	78-93-3 67-64-1	Butanone, Acetone	Engineering stores and on line printer maekup	30 x 750ml
VSL 068, VSL 100	N/A	128-37-0	2'6-di-tert-butyl-p-cresol	Engineering Stores Lubricant	10 x 1ltr
WD40 Specialist Fast release penetrant	H315, H336, H411, H222, H304, H229	N/A	Hydrocarbons, C7 n-alkanes, isoalkanes, cyclics, Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics,<2% aromatics, Distillates hydrotreated light, Carbon Dioxide, Hydrocarbons, C7-C9, isoalkanes	Facilities workshop mechanic lubricant	2 x 750ml
Ultrasafe Food Grease 3H (FF100)	n/a	n/a	n/a	Direct contact grease for mincer blades, depositors	20 x 1ltr
Ultrasafe Food Grease 3H Aerosols (FF100A)	H222, H229	68476-85-7	Petroleum gases, liquified.	Direct contact grease for mincer blades, depositors	48 x 350ml
PTFE Silicone Grease (FF122)	H222, H229, H315, H412	68476-85-7 64742-89-8 9002-84-0	Petroleum gases, liquified <0.1% 1,3-butadiene, Solvent naphtha (petroleum), light aliph, polytetrafluoroethylene	Light general lubricating grease for sensors and electrical seals to stop water /chemical damage. General lubrication and chains.	12 x 350ml
Ultra-Clear Food Grease (NLGI 00 Grade) FF152-00	n/a	80939-62-4	Amines, C11-14-Branched alkyl, monohexyl and dihexyl phosphates	Light grease for use on Mondinis	12 x 350 ml

Substance	Haz. Codes	Cas. Number	Details of substance or mixture	Location and description of use	Likely amount stored
Ultra-Food Bearing Grease (NLGI 00) FF156A-00	n/a	n/a	n/a	Light grease for use on Mondinis	12 x 350 ml
Polyast Food Bearing Grease (FF157)	H319	n/a	Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts.	Bearings and grease points	12 x 350 ml
Food Chain & Gear Oil 220 (FF172)	n/a	n/a	n/a	Lubricating oil for use on chains and gears	2 x 25 Litre
Food Grade PAO Hydro Oil 46 (FF176A-46)	n/a	n/a	n/a	Hydraulic oil / All Machines	4 x 25 Litre
Ultra FoodLube Multi Aerosol (FF212)	H22, H229	68476-85-7	Petroleum gases, liquified <0.1% 1,3-Butadiene	Lubricant. For use in heavy load applications. Can be used as a penetrating oil and rust preventer	12 x 350 ml
FF213 Superlite FG Aerosol	H222, H229, H315, H336, H411	64741-66-8 68476-85-7	Hydrocarbons, C7-C9, Isolkanes. Petroleum gases, liquified <0.1% 1,3-Butadiene	Extra light penetration fluid. Light anti friction. For string tying machines. High load and minimum residue	12 x 350 ml
Bulldog BDX aerosol (BDX01)	H222, H229, H315, H317, H412	68476-85-7 926-141-6 92128-66-0 1471316-72-9 64742-65-0 85940-28-9	Petroleum gases, liquified, Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics, Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane. Benzenesulfonic acid, DI-C10-14-Alkyl derivs, Mineral oil, phosphorodithioic acid, mixed o,o-bis(2-ethylhexyl)and iso-bu-pr)	Penetrating oil for workshop use	12 x 350ml
Powder Coating Repair Spray (FF114PC)	H222, H229, H315, H412	115-10-6 109-87-5 64742-49-0 1330-20-7 64742-95-6	Dimethyl ether, dimethoxymethane, Hydrocarbons, C7, N-alkanes, isoalkanes, cyclics, Xylene, Hydrocarbons, C9, aromatics, ethylbenzene	Repair of walls throughout production	36 x 400ml

Substance	Haz. Codes	Cas. Number	Details of substance or mixture	Location and description of use	Likely amount stored
		100-41-4			
Aralub 4320	n/a	68425-15-0 4259-15-8	Polysulfides, di-tert-dodecyl. Zinc bus[O,O-bis(2-ethylhexyl)] bis dithiophosphate)	Engineering workshop grease used for the forklifts	
Dow Coring 340 Heat Sink Compound	n/a	n/a	n/a	Engineering workshop silicone paste	2 x 100g
Silicone Spray 500ml	H222, H229, H315, H336, H411	11-38-51 53-65-67 11-36-67	Naphtha (petroleum), Hydrotreated light, Naphtha (petroleum), hydrotreated heavy, Propan-2-ol	Engineering workshop silicone paste	3 x 500ml
Ultra 2040 Lubricant	H225, H315, H336, H304, H411	N/A	Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2%. Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-nexane	Engineering workshop Lubricant	3 x 500ml

Appendix B Environmental Risk Assessment – Soil and Groundwater

Factory floor

Substance	Possible Pollution Scenario(s)	Summary of Current Control Measures	Possibility of Pollution
There are a range of substances used on the Factory floor to clean areas and product testing / swabbing	Spillage Failure of satellite / pump system Failure of site process drainage	All chemicals are kept in chemicals stores and/or on plastic bunds. Minimal chemicals kept in chemical stores outside of the factory. Chemical stores are locked with access strictly controlled. Auto dosing via satellite system reduces manual handling of chemical and therefore spillage risk Chemical spillage and handling training for all colleagues using these substances has been completed. Spill kits available in all chemical stores. Site drainage is regularly inspected.	Unlikely

Hygiene and general cleaning of other areas

Substance	Possible Pollution Scenario(s)	Summary of Current Control Measures	Possibility of Pollution
There are a range of substances around the factory for cleaning within production areas	Spillage	All chemicals are kept in locked areas within the Hygiene rooms and bunded as required. Areas are locked with access strictly controlled. Chemical spillage and handling training for all colleagues using these substances has been completed.	Unlikely

Kitchen areas

Substance	Possible Pollution Scenario(s)	Summary of Current Control Measures	Possibility of Pollution
Substances are used for cleaning and hygiene within the NPD and Canteen kitchen	Spillage	All relevant employees are trained and authorised on the use of chemicals as required. Storage areas have restricted access. Substances are held in smaller volume containers.	Unlikely

DAF plant, boilers and tanks outside

Substance	Possible Pollution Scenario(s)	Summary of Current Control Measures	Possibility of Pollution
Substances are used for operation of the DAF plant as well as boiler running	Spillage Failure of equipment Traffic incident	All DAF and boiler chemicals are kept within the compound and on plastic bunds. This area is a restricted area and is locked. Effluent tanks are protected by a retention wall and crash protection and are located in a hard-standing area All fuel tanks on site are integrally bunded, with secondary containment or protection of a concrete bund or protection wall. Chemical spillage and handling training for all colleagues using these substances has been completed. Spill kit available in the Energy Centre and boiler house All surface water is discharged via an oil interceptor which captures any oil which may have arisen from vehicles Penstock valve at discharge point can be closed to contain any spillage incident before contamination of surface water or ground water occurs.	Unlikely

Engineering

Substance	Possible Pollution Scenario(s)	Summary of Current Control Measures	Possibility of Pollution
Substances are used for maintaining, fixing and working with machinery on site	Spillage Failure of equipment	All chemicals are kept within the workshops with restricted access. Chemicals are kept on plastic bunds or in locked cabinets. Chemical spillage procedure trained out to all colleagues using these chemicals. Spill kit available in the workshop	Unlikely

Conclusion:

As the risk assessment has shown the possibility of pollution is unlikely and there have been no significant pollution incidents impacting ground water or soil at Dunbia (Crosshands) it is not considered necessary by Dunbia (Crosshands) for further soil or groundwater investigations or assessments to be completed. This will be reviewed in 5 years' time in keeping with Industrial Emissions Directive Requirements.