SAFETY DATA SHEET

: 1.01

Version

Europe

Date of issue/Date of revision : 6 August 2024

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Troduct lucilities	
Product name	: SIGMAZINC 102 HS / 109 HS HARDENER
Product code	: 00445436
Other means of identif	ication
Not available.	

1.2 Relevant identified uses of the substance or mixture and uses advised against		
Product use	: Professional applications, Used by spraying.	
Use of the substance/ mixture	: Coating.	
Uses advised against	: Product is not intended, labelled or packaged for consumer use.	

1.3 Details of the supplier of the safety data sheet

PPG Coatings Belgium BV/SRL Tweemontstraat 104 B-2100 Deurne Belgium Telephone +32-33606311 Fax +32-33606435

e-mail address of person : Product.Stewardship.EMEA@ppg.com responsible for this SDS

1.4 Emergency telephone number

Supplier

+31 20 4075210

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Product definition : Mixture Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] Flam. Liq. 3, H226 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Chronic 2, H411 The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended. See Section 16 for the full text of the H statements declared above.

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SECTION 2: Hazards identification		

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms	
Signal word	: Danger
Hazard statements	 Flammable liquid and vapour. Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause respiratory irritation. Toxic to aquatic life with long lasting effects.
Precautionary statements	
Prevention	: Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment.
Response	: Collect spillage.
Storage	: Store in a well-ventilated place. Keep container tightly closed.
Disposal	 Dispose of contents and container in accordance with all local, regional, national and international regulations. P280, P210, P273, P391, P403 + P233, P501
Hazardous ingredients	 Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine xylene 2-methylpropan-1-ol reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700) 2,4,6-tris(dimethylaminomethyl)phenol 3,6-diazaoctanethylenediamin
Supplemental label elements	: Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.
Special packaging requiren	nents
Containers to be fitted with child-resistant fastenings	: Not applicable.
Tactile warning of danger	: Not applicable.
2.3 Other hazards	
Product meets the criteria for PBT or vPvB	: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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SECTION 2: Hazards identification

Other hazards which do not result in classification

: Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation.

SECTION 3: Composition/information on ingredients

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	% by weight	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Atty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	REACH #: 01-2119972320-44 EC: 500-191-5 CAS: 68082-29-1	≥25 - ≤50	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Chronic 2, H411	-	[1]
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7	≥10 - ≤25	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Dermal] = 1700 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1] [2]
2-methylpropan-1-ol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	≥10 - <20	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	-	[1] [2]
benzyl alcohol	REACH #: 01-2119492630-38 EC: 202-859-9 CAS: 100-51-6 Index: 603-057-00-5	≥10 - ≤25	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Irrit. 2, H319	ATE [Oral] = 1230 mg/ kg ATE [Inhalation (dusts and mists)] = 1.5 mg/l	[1] [2]
reaction product: bisphenol- A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	REACH #: 01-2119456619-26 EC: 500-033-5 CAS: 25068-38-6 Index: 603-074-00-8	≥10 - ≤25	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	Skin Irrit. 2, H315: C ≥ 5% Eye Irrit. 2, H319: C ≥ 5%	[1]
2,4,6-tris (dimethylaminomethyl) phenol	REACH #: 01-2119560597-27 EC: 202-013-9 CAS: 90-72-2	≥1.0 - ≤5.0	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1C, H314 Eye Dam. 1, H318	ATE [Oral] = 1200 mg/ kg ATE [Dermal] = 1280 mg/kg	[1]
3,6-diazaoctanethylenediamin	EC: 203-950-6 CAS: 112-24-3 Index: 612-059-00-5	≥1.0 - <5.0	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412	ATE [Oral] = 1716 mg/ kg ATE [Dermal] = 1465 mg/kg	[1] [2]
ethylbenzene	REACH #: 01-2119489370-35	≥1.0 - ≤5.0	Flam. Liq. 2, H225 Acute Tox. 4, H332	ATE [Inhalation (vapours)] = 17.8 mg/l	[1] [2]
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SECTION 3: Composition/information on ingredients

EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412 See Section 16 for the full text of the H statements declared above.	
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There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

<u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

SUB codes represent substances without registered CAS Numbers.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
Inhalation	 Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	 Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
Ingestion	 If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health	n effects
Eye contact	: Causes serious eye damage.
Inhalation	: May cause respiratory irritation.
Skin contact	: Causes severe burns. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: Corrosive to the digestive tract. Causes burns.
Over-exposure signs	/symptoms
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulatio	n (EU)
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Skin contact	: Adverse symp pain or irritatio redness dryness cracking blistering may			
Ingestion	: Adverse symp stomach pains	otoms may include the following: s		
4.3 Indication of any immedi	iate medical attent	ion and special treatment needed		
Notes to physician		In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.		
Specific treatments	: No specific trea	: No specific treatment.		
SECTION 5: Firefigh	ting measure	?S		
5.1 Extinguishing media				
Suitable extinguishing media	: Use dry chemic	cal, CO₂, water spray (fog) or foam.		
Unsuitable extinguishing media	: Do not use wat	ter jet.		
5.2 Special hazards arising f	from the substance	e or mixture		
Hazards from the substance or mixture	a fire or if heat risk of a subse effects. Fire w	uid and vapour. Runoff to sewer may cre ed, a pressure increase will occur and the quent explosion. This material is toxic to vater contaminated with this material mus- charged to any waterway, sewer or drain.	e container may burst, with the aquatic life with long lasting t be contained and prevented	
Hazardous combustion products	: Decomposition carbon oxides nitrogen oxides halogenated co		erials:	

Special precautions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

5.3 Advice for firefighters

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from
	entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapour or mist. Provide
	adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

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SECTION 6: Accide	ntal release measures
For emergency responders	 If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non- emergency personnel".
6.2 Environmental precautions	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
6.3 Methods and material fo	r containment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.
6.4 Reference to other sections	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation	(EU)
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SECTION 7: Handling and storage

7.2 Conditions for safe storage, including any incompatibilities	: Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

See Section 1.2 for Identified uses.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values		
xylene	EU OEL (Europe, 1/2022). [xylene, mixed isomers] Absorbed		
	through skin.		
	STEL: 442 mg/m ³ 15 minutes.		
	STEL: 100 ppm 15 minutes.		
	TWA: 221 mg/m ³ 8 hours.		
	TWA: 50 ppm 8 hours.		
2-methylpropan-1-ol	ACGIH TLV (United States, 7/2023).		
	TWA: 152 mg/m ³ 8 hours.		
	TWA: 50 ppm 8 hours.		
benzyl alcohol	IPEL (-).		
	TWA: 5 ppm		
	STEL: 10 ppm		
3,6-diazaoctanethylenediamin	IPEL (-). Absorbed through skin.		
	TWA: 1 ppm		
ethylbenzene	EU OEL (Europe, 1/2022). Absorbed through skin.		
	STEL: 884 mg/m ³ 15 minutes.		
	STEL: 200 ppm 15 minutes.		
	TWA: 442 mg/m³ 8 hours.		
	TWA: 100 ppm 8 hours.		
Recommended monitoring : Reference	should be made to monitoring standards, such as the following: European		
	N 689 (Workplace atmospheres - Guidance for the assessment of exposure		
	n to chemical agents for comparison with limit values and measurement		
	uropean Standard EN 14042 (Workplace atmospheres - Guide for the		
	and use of procedures for the assessment of exposure to chemical and		

DNELs

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of hazardous substances will also be required.

biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination

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SECTION 8: Exposure controls/personal protection

Product/ingredient name	Туре	Exposure	Value	Population	Effects
Atty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	DNEL	Long term Oral	97.2 μg/kg bw/day	General population	Systemic
	DNEL DNEL DNEL	Long term Dermal Long term Inhalation Long term Dermal	97.2 μg/kg bw/day 0.169 mg/m³ 0.272 mg/kg bw/day	General population General population Workers	Systemic Systemic Systemic
xylene	DNEL DNEL DNEL	Long term Inhalation Long term Oral Long term Inhalation	0.952 mg/m ³ 5 mg/kg bw/day 65.3 mg/m ³	Workers General population General population	
	DNEL DNEL DNEL DNEL	Long term Inhalation Long term Dermal Long term Dermal Long term Inhalation	65.3 mg/m ³ 125 mg/kg bw/day 212 mg/kg bw/day 221 mg/m ³	General population General population Workers Workers	Systemic Systemic Systemic Local
	DNEL DNEL DNEL DNEL	Long term Inhalation Short term Inhalation Short term Inhalation Short term Inhalation	221 mg/m ³ 260 mg/m ³ 260 mg/m ³ 442 mg/m ³	Workers General population General population Workers	Systemic Local Systemic Local
2-methylpropan-1-ol	DNEL DNEL	Short term Inhalation Long term Inhalation	442 mg/m ³ 55 mg/m ³	Workers General population	
benzyl alcohol	DNEL DNEL DNEL	Long term Inhalation Long term Oral Long term Dermal	310 mg/m³ 4 mg/kg bw/day 4 mg/kg bw/day	Workers General population General population	Local Systemic Systemic
	DNEL DNEL DNEL DNEL	Long term Inhalation Long term Dermal Short term Oral Short term Dermal	5.4 mg/m ³ 8 mg/kg bw/day 20 mg/kg bw/day 20 mg/kg bw/day	General population Workers General population General population	Systemic Systemic Systemic Systemic
	DNEL DNEL DNEL	Long term Inhalation Short term Inhalation Short term Dermal	22 mg/m ³ 27 mg/m ³ 40 mg/kg bw/day	Workers General population Workers	Systemic Systemic Systemic
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	DNEL DNEL	Short term Inhalation Long term Inhalation	110 mg/m ³ 12.25 mg/m ³	Workers Workers	Systemic Systemic
	DNEL DNEL DNEL	Short term Inhalation Long term Dermal Short term Dermal	12.25 mg/m³ 8.33 mg/kg bw/day 8.33 mg/kg bw/day	Workers Workers Workers	Systemic Systemic Systemic
	DNEL	Long term Dermal	3.571 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Short term Dermal	3.571 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Oral	0.75 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Short term Oral	0.75 mg/kg bw/day	General population [Consumers]	Systemic
2,4,6-tris (dimethylaminomethyl)phenol	DNEL	Long term Oral	0.075 mg/kg bw/day	General population	Systemic
	DNEL DNEL DNEL DNEL	Short term Dermal Long term Dermal Short term Inhalation Long term Inhalation	0.075 mg/kg bw/day 0.075 mg/kg bw/day 0.13 mg/m ³ 0.13 mg/m ³	General population General population General population General population	Systemic Systemic Systemic Systemic
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	DNEL	Long term Dermal	0.15 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	0.53 mg/m³	Workers	Systemic
	DNEL	Short term Dermal	0.6 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	2.1 mg/m ³	Workers	Systemic
3,6-diazaoctanethylenediamin	DNEL	Long term Dermal	28 µg/cm²	Workers	Local
	DNEL	Long term Dermal	0.25 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.29 mg/m ³	General population	Systemic
	DNEL	Long term Oral	0.41 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.43 mg/cm ²	General population	Local
	DNEL	Long term Dermal	0.57 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Dermal	1 mg/cm ²	General population	Local
	DNEL	Long term Inhalation	1 mg/m ³	Workers	Systemic
	DNEL	Short term Dermal	8 mg/kg bw/day	General population	Systemic
	DNEL	Short term Oral	20 mg/kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	1600 mg/m³	General population	Systemic
	DNEL	Short term Inhalation	5380 mg/m³	Workers	Systemic
ethylbenzene	DMEL	Long term Inhalation	442 mg/m³	Workers	Local
	DMEL	Short term Inhalation	884 mg/m³	Workers	Systemic
	DNEL	Long term Oral	1.6 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	15 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	77 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	293 mg/m ³	Workers	Local

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Product/ingredient name	Туре	Compartment Detail	Value	Method Detail
Atty acids, C18-unsatd., dimers, oligomeric reaction products with tall- oil fatty acids and triethylenetetramine	-	Fresh water	0.043 mg/l	Assessment Factors
,	-	Marine water	0 mg/l	Assessment Factors
	-	Sewage Treatment Plant	3.84 mg/l	Assessment Factors
	-	Fresh water sediment	434.02 mg/kg dwt	Equilibrium Partitioning
	-	Marine water sediment	43.4 mg/kg dwt	Equilibrium Partitioning
	-	Soil	86.78 mg/kg dwt	Equilibrium Partitioning
xylene	-	Fresh water	0.327 mg/l	-
	-	Marine water	0.327 mg/l	-
	-	Sewage Treatment Plant	6.58 mg/l	-
	-	Fresh water sediment	12.46 mg/kg dwt	-
	-	Marine water sediment	12.46 mg/kg dwt	-
	-	Soil	2.31 mg/kg	-
2-methylpropan-1-ol	-	Fresh water	0.4 mg/l	Assessment Factors
	-	Marine water	0.04 mg/l	Assessment Factors
	-	Sewage Treatment Plant	10 mg/l	Assessment Factors
	-	Fresh water sediment	1.56 mg/kg dwt	Equilibrium Partitioning
	-	Marine water sediment	0.156 mg/kg dwt	-
	-	Soil	0.076 mg/kg dwt	Equilibrium Partitioning
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight \leq 700)	-	Fresh water	0.006 mg/l	Assessment Factors
с с ,	-	Marine water	0.001 mg/l	Assessment Factors
	-	Sewage Treatment Plant	10 mg/l	Assessment Factors
	-	Fresh water sediment	0.996 mg/kg dwt	Equilibrium Partitioning
	-	Marine water sediment	0.1 mg/kg dwt	Equilibrium Partitioning
ethylbenzene	-	Fresh water	0.1 mg/l	Assessment Factors
-	-	Marine water	0.01 mg/l	Assessment Factors
	-		9.6 mg/l	Assessment Factors
	-	Fresh water sediment	13.7 mg/kg dwt	Equilibrium Partitioning
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	-	Marine water sediment Soil Secondary Poisoning	1.37 mg/kg dwt 2.68 mg/kg dwt 20 mg/kg	Equilibrium Partitioning Equilibrium Partitioning -				

8.2 Exposure controls		
Appropriate engineering controls	:	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Individual protection measu	<u>ires</u>	
Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	:	Chemical splash goggles and face shield. Use eye protection according to EN 166.
Skin protection		
Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
Gloves	:	nitrile neoprene
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti- static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
Other skin protection		Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection		Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Wear a respirator conforming to EN140. Filter type: organic vapour (Type A) and particulate filter P3

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Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

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The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Solubility(ies)	:					
Viscosity	:	Kinematic (40°C): >21 mm ² /s	;			
рН	:	Not applicable. insoluble in w	ater.			
Decomposition temperature	:	Stable under recommended s	storage and h	nandling cond	ditions (see Section 7).	
		3,6-diazaoctanethylenediamin	337.78	640		
		Ingredient name	°C	°F	Method	
Auto-ignition temperature	:					
Flash point	:	Closed cup: 33°C				
explosive limits	Ċ	Croateot known range. Lowe				
Upper/lower flammability or		Greatest known range: Lowe	r 1.3% Unne	er [.] 13% (ben	zvl alcohol)	
boiling range Flammability		Not available.				
Initial boiling point and	:	>37.78°C				
Melting point/freezing point	:	May start to solidify at the following temperature: $12^{\circ}C$ (53.6°F) This is based on data for the following ingredient: 3,6-diazaoctanethylenediamin. Weighted average: -63.14°C (-81.7°F)				
Odour threshold	:	Not available.				
Odour	:	Characteristic.				
Colour	:	Clear.				
Physical state	1	Liquid.				

Vapour pressure

	Va	Vapour Pressure at 20°C			Vapour pressure at 50°C		
	Ingredient name mm I	lg kPa	Method	mm Hg	kPa	Method	
	methylpropan-1-ol <12.00	102 <1.6	DIN EN 13016-2				
Evaporation rate	: Highest known value: 0.84 butyl acetate	(ethylbenz	ene) Weighte	d average	e: 0.5con	npared with	
Relative density	: 0.95						
Bulk density (g/cm ³)	: 0.95						
Vapour density	: ⊮ ighest known value: 5.04 average: 3.48 (Air = 1)	(Air = 1)	(3,6-diazaocta	nethylene	ediamin).	Weighted	
English (GB)		Europe	•			11/20	

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SECTION 9: Physica	I and chemical properties
Explosive properties	: The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.
Oxidising properties	: Product does not present an oxidizing hazard.
Particle characteristics	
Median particle size	: Not applicable.
9.2 Other information	

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.
10.5 Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
10.6 Hazardous decomposition products	: Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides halogenated compounds

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
✓atty acids, C18-unsatd., dimers,	LD50 Dermal	Rat	>2000 mg/kg	-
oligomeric reaction products with tall-oil				
fatty acids and triethylenetetramine				
	LD50 Oral	Rat	>2000 mg/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
2-methylpropan-1-ol	LC50 Inhalation Vapour	Rat	24.6 mg/l	4 hours
	LD50 Dermal	Rabbit	2460 mg/kg	-
	LD50 Oral	Rat	2830 mg/kg	-
benzyl alcohol	LC50 Inhalation Dusts and	Rat	>4178 mg/m ³	4 hours
	mists		C C	
	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1.23 g/kg	-
reaction product: bisphenol-A-	LD50 Dermal	Rabbit	>2 g/kg	-
(epichlorhydrin); epoxy resin (number			00	
average molecular weight ≤ 700)				
с с ,	LD50 Oral	Rat	>2 g/kg	-
2,4,6-tris(dimethylaminomethyl)phenol	LD50 Dermal	Rat	1280 mg/kg	-
	LD50 Oral	Rat	1200 mg/kg	_
3,6-diazaoctanethylenediamin	LD50 Dermal	Rabbit	1465 mg/kg	_
-,- ,	LD50 Oral	Rat	1716 mg/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat	17.8 mg/l	4 hours
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SECTION 11: Toxicological information

		LD50 Dermal LD50 Oral	Rabbit Rat	17.8 g/kg 3.5 g/kg	-	
Conclusion/Summary	: There are	no data available on th	ne mixture itself.			

Acute toxicity estimates

Route	ATE value
Øral	5877.84 mg/kg
Dermal	6840.77 mg/kg
Inhalation (vapours)	69.76 mg/l
Inhalation (dusts and mists)	11.17 mg/l

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Atty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	Eyes - Severe irritant	Rabbit	-	-	-
	Skin - Irritant	Human	-	-	-
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	Eyes - Mild irritant	Rabbit	-	100 mg	-
	Eyes - Moderate irritant	Rabbit	-	-	-
	Skin - Moderate irritant	Rabbit	-	-	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 UI	-
	Skin - Severe irritant	Rabbit	-	24 hours 2 mg	-

Conclusion/Summary

Skin Eyes

: There are no data available on the mixture itself.

- : There are no data available on the mixture itself.
- Respiratory
- : There are no data available on the mixture itself.

Sensitisation

Product/ingredient name	Route of exposure	Species	Result
Atty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	skin	Mouse	Sensitising
eaction product: bisphenol-A-(epichlorhydrin); epoxy esin (number average molecular weight ≤ 700)	skin	Mouse	Sensitising
3,6-diazaoctanethylenediamin	skin	Guinea pig	Sensitising

· · · · · · · · · · · · · · · · · · ·	
Skin	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
Mutagenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Carcinogenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Reproductive toxicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Teratogenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Specific target organ toxic	<u>ity (single exposure)</u>

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Product/ingredient name	Category	Route of exposure	Target organs
xylene 2-methylpropan-1-ol	Category 3 Category 3 Category 3	-	Respiratory tract irritation Respiratory tract irritation Narcotic effects

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
ethylbenzene	Category 2	-	hearing organs

Aspiration hazard

Product/i	ingredient name	Result
xylene ethylbenzene		ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
Information on likely routes of exposure	: Not available.	
Potential acute health effect	<u>ts</u>	
Inhalation	: May cause respiratory irritation.	
Ingestion	: Corrosive to the digestive tract. C	auses burns.
Skin contact	: Causes severe burns. Defatting t	o the skin. May cause an allergic skin reaction.
Eye contact	: Causes serious eye damage.	
Symptoms related to the ph	ysical, chemical and toxicological o	characteristics
Inhalation	: Adverse symptoms may include the respiratory tract irritation coughing	ne following:
Ingestion	: Adverse symptoms may include the stomach pains	ne following:
Skin contact	: Adverse symptoms may include th pain or irritation redness dryness cracking blistering may occur	ne following:
Eye contact	: Adverse symptoms may include th pain watering redness	ne following:
Delayed and immediate effe	ects as well as chronic effects from	short and long-term exposure
Short term exposure		
Potential immediate effects	: Not available.	
Potential delayed effects	: Not available.	
Long term exposure		
Potential immediate effects	: Not available.	
Potential delayed effects Potential chronic health effects		

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Not available.

Conclusion/Summary	: Not available.
General	 Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.
Other information	: Not available.

Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapour/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing. Exposure to amine vapor has been reported to cause transient corneal edema described as blue haze, halo effect, foggy or blurred vision for several hours. This condition is typically temporary and does not cause permanent visual effects. When the proper eye protection specified in Section 8 is worn, exposure is significantly reduced and the condition has not been observed.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	EC10 1.78 mg/l	Algae	72 hours
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	Chronic NOEC 0.3 mg/l	Daphnia	21 days
2,4,6-tris(dimethylaminomethyl)phenol	Acute LC50 >100 mg/l Acute LC50 >100 mg/l	Daphnia Fish	48 hours 96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-

Conclusion/Summary

: There are no data available on the mixture itself.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Feaction product: bisphenol- A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	OECD 301F	5 % - 28 days	-	-
2,4,6-tris (dimethylaminomethyl)phenol	OECD 301D Ready Biodegradability - Closed Bottle	4 % - Not readily - 28 days	-	-
English (GB)		Europe		15/20

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SECTION 12: Ecological information

	Test			
ethylbenzene	-	79 % - Readily - 10 days	-	-

Conclusion/Summary : There are no data available on the mixture itself.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Atty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	-	-	Not readily
xylene	-	-	Readily
benzyl alcohol	-	-	Readily
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	-	-	Not readily
2,4,6-tris(dimethylaminomethyl)phenol ethylbenzene	-	-	Not readily Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
x ylene	3.12	7.4 to 18.5	Low
2-methylpropan-1-ol	1	-	Low
benzyl alcohol	0.87	-	Low
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	2.64 to 3.78	31	Low
2,4,6-tris(dimethylaminomethyl)phenol	0.219	-	Low
3,6-diazaoctanethylenediamin	-1.66 to -1.4	-	Low
ethylbenzene	3.6	79.43	Low

12.4 Mobility in soil

Soil/water partition coefficient (K _{oc})	: Not available.
Mobility	: Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (E	EU)
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SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	Yes

European waste catalogue (EWC)

Waste code	Waste designation
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
Dookoging	

Packaging

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Type of packaging	European waste catalogue (EWC)		
Container	15 01 06	mixed packaging	
Special precautions	taken when I Empty conta residues may Do not cut, w	I and its container must be disposed of in a safe way. Care should be handling emptied containers that have not been cleaned or rinsed out. iners or liners may retain some product residues. Vapour from product y create a highly flammable or explosive atmosphere inside the container. weld or grind used containers unless they have been cleaned thoroughly void dispersal of spilt material and runoff and contact with soil, waterways, ewers.	

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number or ID number	UN3469	UN3469	UN3469	UN3469
14.2 UN proper shipping name	PAINT, FLAMMABLE, CORROSIVE	PAINT, FLAMMABLE, CORROSIVE	PAINT, FLAMMABLE, CORROSIVE	PAINT, FLAMMABLE, CORROSIVE
14.3 Transport hazard class(es)	3 (8)	3 (8)	3 (8)	3 (8)
14.4 Packing group	III	=	III	III
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	Not applicable.	(Polyamide)	Not applicable.

Additional information

English (GB)	Europe	17/20
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Conforms to Regulation (EC) No.	1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU)
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SECTION 14: Transport information

ADR/RID	 The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. 			
Tunnel code	: (D/E)			
ADN	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.			
IMDG	: The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.			
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.			
14.6 Special prec user	cautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.			
14.7 Maritime tra bulk according to	• • • • • • • • • • • • • • • • • • • •			

instruments

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

Annex XIV - List of substances subject to authorisation

Annex XIV None of the components are listed.

<u>Substances of very high concern</u> None of the components are listed.

Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Explosive precursors : Not applicable.

Ozone depleting substances (1005/2009/EU)

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria Category P5c E2

15.2 Chemical safety assessment

: No Chemical Safety Assessment has been carried out.

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SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

PNEC = Predicted No Effect Concentration

RRN = REACH Registration Number

PBT = Persistent, Bioaccumulative and Toxic

vPvB = Very Persistent and Very Bioaccumulative

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

IMDG = International Maritime Dangerous Goods

IATA = International Air Transport Association

Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated
	exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Full tout of close if is stime. ICL D/C	

Full text of classifications [CLP/GHS]

Acute Tox. 4 Aquatic Chronic 2	ACUTE TOXICITY - Category 4 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2	
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3	
Asp. Tox. 1	ASPIRATION HAZARD - Category 1	
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1	
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2	
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2	
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3	
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B	
Skin Corr. 1C	SKIN CORROSION/IRRITATION - Category 1C	
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2	
Skin Sens. 1	SKIN SENSITISATION - Category 1	
Skin Sens. 1A	SKIN SENSITISATION - Category 1A	
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE -	
	Category 2	
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE -	
	Category 3	

<u>History</u>

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: 6 August 2024

English (GB)

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SECTION 16: Other information					
Date of previous issue	: 23 August 2022				
Prepared by	: EHS				
Version	: 1.01				

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