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

# SAFETY DATA SHEET

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Version

**Europe** 

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-	
1.1 Product identifier	
Product name	: SIGMACOVER 456 BASE GREEN 4171
Product code	: 00445473
Other means of identifica	tion
Not available.	
1.2 Relevant identified use	s 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.
<b>1.3 Details of the supplier</b> of PPG Coatings Belgium BV/	
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	r roudouotowardomp.zmz/.coppg.com
1.4 Emergency telephone r	number
<u>Supplier</u>	
+31 20 4075210	
SECTION 2: Hazard	Is identification
2.1 Classification of the su	bstance or mixture
Product definition	: Mixture
Classification according t Mam. Liq. 3, H226	to Regulation (EC) No. 1272/2008 [CLP/GHS]
Skin Irrit. 2, H315	

Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Chronic 2, H411

undertaking

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	: Warning
Hazard statements	<ul> <li>Fammable liquid and vapour.</li> <li>Causes skin irritation.</li> <li>May cause an allergic skin reaction.</li> <li>Causes serious eye irritation.</li> <li>May cause respiratory irritation.</li> <li>Toxic to aquatic life with long lasting effects.</li> </ul>
Precautionary statements	
Prevention	: Wear protective gloves. Wear 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	: 🖉ollect spillage.
Storage	: Store in a well-ventilated place. Keep container tightly closed.
Disposal	<ul> <li>Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> <li>P280, P210, P273, P391, P403 + P233, P501</li> </ul>
Hazardous ingredients	<ul> <li>#,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro- 2,3-epoxypropane, reaction products with fatty acids, C18-unsatd., dimers xylene</li> <li>N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide)</li> </ul>
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 requirem	<u>ients</u>
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.
Other hazards which do not result in classification	: Prolonged or repeated contact may dry skin and cause irritation.

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## 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
4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro- 2,3-epoxypropane, reaction products with fatty acids, C18-unsatd., dimers	EC: 500-180-5 CAS: 67989-52-0	≥25 - ≤50	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, 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]
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≥1.0 - ≤5.0	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Inhalation (vapours)] = 17.8 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	≥1.0 - <3.0	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	-	[1] [2]
N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan- 1-amide)	REACH #: 01-2119978265-26 EC: 204-613-6 CAS: 123-26-2	≤0.30	Skin Sens. 1B, H317 Aquatic Chronic 3, H412	-	[1] [2]
toluene	REACH #: 01-2119471310-51 EC: 203-625-9 CAS: 108-88-3 Index: 601-021-00-3	≤0.30	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 See Section 16 for the full text of the H statements declared above.	-	[1] [2]

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.

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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SECTION 3: Composition/information on ingredients

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 : Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice. 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. : If swallowed, seek medical advice immediately and show the container or label. Keep Ingestion 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 effects         Eye contact       : Causes serious eye irritation.         Inhalation       : May cause respiratory irritation.         Skin contact       : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.         Ingestion       : No known significant effects or critical hazards.         Over-exposure signs/symptoms         Eye contact       : Adverse symptoms may include the following: pain or irritation watering redness         Inhalation       : Adverse symptoms may include the following: respiratory tract irritation coughing         Skin contact       : Adverse symptoms may include the following: respiratory tract irritation coughing         Skin contact       : Adverse symptoms may include the following: respiratory tract irritation coughing         Skin contact       : Adverse symptoms may include the following: irritation redness dryness cracking         Ingestion       : No specific data.         4.3 Indication of any immediate medical attention and special treatment needed         Notes to physician       : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.         Specific treatments       : No specific treatment.		
Inhalation       : May cause respiratory irritation.         Skin contact       : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.         Ingestion       : No known significant effects or critical hazards.         Over-exposure signs/symptoms       :         Eye contact       : Adverse symptoms may include the following: pain or irritation watering redness         Inhalation       : Adverse symptoms may include the following: respiratory tract irritation coughing         Skin contact       : Adverse symptoms may include the following: respiratory tract irritation coughing         Skin contact       : Adverse symptoms may include the following: respiratory tract irritation coughing         Ingestion       : Adverse symptoms may include the following: respiratory tract irritation coughing         Skin contact       : Adverse symptoms may include the following: irritation redness dryness cracking         Ingestion       : No specific data.         4.3 Indication of any immediate medical attention and special treatment needed         Notes to physician       : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.	Potential acute health eff	ects
Skin contact       : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.         Ingestion       : No known significant effects or critical hazards.         Over-exposure signs/symptoms       : Adverse symptoms may include the following: pain or irritation watering redness         Inhalation       : Adverse symptoms may include the following: respiratory tract irritation coughing         Skin contact       : Adverse symptoms may include the following: respiratory tract irritation coughing         Skin contact       : Adverse symptoms may include the following: respiratory tract irritation coughing         Skin contact       : Adverse symptoms may include the following: respiratory tract irritation coughing         Skin contact       : Adverse symptoms may include the following: respiratory tract irritation coughing         Ingestion       : No specific data.         4.3 Indication of any immediate medical attention and special treatment needed         Notes to physician       : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.	Eye contact	: Causes serious eye irritation.
Ingestion       : No known significant effects or critical hazards.         Over-exposure signs/symptoms         Eye contact       : Adverse symptoms may include the following: pain or irritation watering redness         Inhalation       : Adverse symptoms may include the following: respiratory tract irritation coughing         Skin contact       : Adverse symptoms may include the following: respiratory tract irritation coughing         Skin contact       : Adverse symptoms may include the following: irritation redness dryness cracking         Ingestion       : No specific data.         4.3 Indication of any immediate medical attention and special treatment needed         Notes to physician       : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.	Inhalation	: May cause respiratory irritation.
Over-exposure signs/symptoms         Eye contact       : Adverse symptoms may include the following: pain or irritation watering redness         Inhalation       : Adverse symptoms may include the following: respiratory tract irritation coughing         Skin contact       : Adverse symptoms may include the following: irritation redness dryness cracking         Ingestion       : No specific data.         4.3 Indication of any immediate medical attention and special treatment needed         Notes to physician       : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.	Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Eye contact       : Adverse symptoms may include the following: pain or irritation watering redness         Inhalation       : Adverse symptoms may include the following: respiratory tract irritation coughing         Skin contact       : Adverse symptoms may include the following: respiratory tract irritation coughing         Skin contact       : Adverse symptoms may include the following: irritation redness dryness cracking         Ingestion       : No specific data.         4.3 Indication of any immediate medical attention and special treatment needed Notes to physician       : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.	Ingestion	: No known significant effects or critical hazards.
pain or irritation         watering         redness         Inhalation         : Adverse symptoms may include the following:         respiratory tract irritation         coughing         Skin contact         : Adverse symptoms may include the following:         irritation         redness         dryness         cracking         Ingestion         : No specific data.    4.3 Indication of any immediate medical attention and special treatment needed Notes to physician	<u>Over-exposure signs/sym</u>	iptoms
skin contact       : Adverse symptoms may include the following: irritation redness dryness cracking         Ingestion       : No specific data.         4.3 Indication of any immediate medical attention and special treatment needed         Notes to physician       : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.	Eye contact	pain or irritation watering
irritation       irritation         redness       dryness         cracking       cracking         Ingestion       : No specific data.         4.3 Indication of any immediate medical attention and special treatment needed         Notes to physician       : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.	Inhalation	respiratory tract irritation
<ul> <li>4.3 Indication of any immediate medical attention and special treatment needed</li> <li>Notes to physician</li> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>	Skin contact	irritation redness dryness
<b>Notes to physician</b> : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.	Ingestion	: No specific data.
quantities have been ingested or inhaled.	4.3 Indication of any imme	diate medical attention and special treatment needed
Specific treatments : No specific treatment.	Notes to physician	
	Specific treatments	: No specific treatment.

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## SECTION 5: Firefighting measures

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5.1 Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
5.2 Special hazards arising fr	rom the substance or mixture
Hazards from the substance or mixture	: Fammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	: Decomposition products may include the following materials: carbon oxides sulfur oxides halogenated compounds metal oxide/oxides
5.3 Advice for firefighters	
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

6.1 Personal precautions, pro	ote	ctive 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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
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	:	Void 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 for	со	ntainment 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.

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SECTION 6: Accidental release measures			
Large spill	<ul> <li>Stop leak if without risk</li> </ul>	Move containers from snill area	Lise spark-proof tools and

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	<ul> <li>See Section 1 for emergency contact information.</li> <li>See Section 8 for information on appropriate personal protective equipment.</li> <li>See Section 13 for additional waste treatment information.</li> </ul>

### **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 ingest. Avoid breathing vapour or mist. 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.
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.

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**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
<b>x</b> ylene	EU OEL (Europe, 1/2022). [xylene, mixed isomers] Absorbed
	through skin.
	STEL: 442 mg/m <sup>3</sup> 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 221 mg/m <sup>3</sup> 8 hours.
	TWA: 50 ppm 8 hours.
ethylbenzene	EU OEL (Europe, 1/2022). Absorbed through skin.
-	STEL: 884 mg/m <sup>3</sup> 15 minutes.
	STEL: 200 ppm 15 minutes.
	TWA: 442 mg/m <sup>3</sup> 8 hours.
	TWA: 100 ppm 8 hours.
2-methylpropan-1-ol	ACGIH TLV (United States, 7/2023).
	TWA: 152 mg/m <sup>3</sup> 8 hours.
	TWA: 50 ppm 8 hours.
N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-	ACGIH TLV (United States).
1-amide)	TWA: 3 mg/m <sup>3</sup> Form: Respirable
	TWA: 10 mg/m <sup>3</sup> Form: Total dust
toluene	EU OEL (Europe, 1/2022). Absorbed through skin.
	STEL: 384 mg/m <sup>3</sup> 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 192 mg/m <sup>3</sup> 8 hours.
	TWA: 50 ppm 8 hours.

**Recommended monitoring** Reference should be made to monitoring standards, such as the following: European τ. Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure procedures by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and 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 of hazardous substances will also be required.

#### **DNELs**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro- 2,3-epoxypropane, reaction products with fatty acids, C18-unsatd., dimers	DNEL	Short term Dermal	4.76 μg/cm²	General population	Local
	DNEL DNEL DNEL DNEL DNEL DNEL DNEL	Long term Dermal Short term Dermal Long term Dermal Short term Dermal Long term Dermal Short term Dermal Long term Dermal Long term Inhalation	4.76 μg/cm <sup>2</sup> 7.9 μg/cm <sup>2</sup> 7.9 μg/cm <sup>2</sup> 3.3 mg/kg bw/day 3.3 mg/kg bw/day 5.6 mg/kg bw/day 5.6 mg/kg bw/day 23.5 mg/m <sup>3</sup>	General population Workers General population General population Workers Workers General population	Local Local Systemic Systemic Systemic Systemic
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	DNEL	Long term Inhalation	23.5 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Short term Inhalation	39.2 mg/m³	Workers	Local
	DNEL	Long term Inhalation	39.2 mg/m³	Workers	Local
	DNEL	Short term Inhalation	39.2 mg/m³	Workers	Systemic
	DNEL	Long term Inhalation	39.2 mg/m³	Workers	Systemic
xylene	DNEL	Long term Oral	5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	65.3 mg/m³	General population	Local
	DNEL	Long term Inhalation	65.3 mg/m³	General population	Systemic
	DNEL	Long term Dermal	125 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	212 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	221 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Inhalation	221 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	260 mg/m <sup>3</sup>	General population	Local
	DNEL	Short term Inhalation	260 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Short term Inhalation	442 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	442 mg/m <sup>3</sup>	Workers	Systemic
ethylbenzene	DMEL	Long term Inhalation	442 mg/m <sup>3</sup>	Workers	Local
	DMEL	Short term Inhalation	884 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Oral	1.6 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	15 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	77 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	293 mg/m <sup>3</sup>	Workers	Local
2-methylpropan-1-ol	DNEL	Long term Inhalation	55 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Inhalation	310 mg/m <sup>3</sup>	Workers	Local
toluene	DNEL	Long term Oral	8.13 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	56.5 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Inhalation	56.5 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	192 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Inhalation	192 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	226 mg/kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	226 mg/m <sup>3</sup>	General population	Local
	DNEL	Short term Inhalation	226 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Dermal	384 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	384 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	384 mg/m³	Workers	Systemic
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#### **PNECs**

Product/ingredient name	Туре	Compartment Detail	Value	Method Detail
<b>x</b> ylene	-	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	-
ethylbenzene	-	Fresh water	0.1 mg/l	Assessment Factors
	-	Marine water	0.01 mg/l	Assessment Factors
	-	Sewage Treatment Plant	9.6 mg/l	Assessment Factors
	-	Fresh water sediment	13.7 mg/kg dwt	Equilibrium Partitioning
	-	Marine water sediment	1.37 mg/kg dwt	Equilibrium Partitioning
	-	Soil	2.68 mg/kg dwt	Equilibrium Partitioning
	-	Secondary Poisoning	20 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	-
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## **SECTION 8: Exposure controls/personal protection**

	-	Soil	0.076 mg/kg dwt	Equilibrium Partitioning
toluene	-	Fresh water	0.68 mg/l	Sensitivity Distribution
	-	Marine water	0.68 mg/l	Sensitivity Distribution
	-	Sewage Treatment Plant	13.61 mg/l	Sensitivity Distribution
	-	Fresh water sediment	16.39 mg/kg dwt	Equilibrium Partitioning
	-	Marine water sediment	16.39 mg/kg dwt	-

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Respiratory protection	: Respirator selection must be based on known or anticipated exposure le hazards of the product and the safe working limits of the selected respira workers are exposed to concentrations above the exposure limit, they m appropriate, certified respirators. Use a properly fitted, air-purifying or a complying with an approved standard if a risk assessment indicates this Wear a respirator conforming to EN140. Filter type: organic vapour (Ty particulate filter P3	ator. If nust use ir-fed respirator is necessary.
Other skin protection	Appropriate footwear and any additional skin protection measures shoul based on the task being performed and the risks involved and should be a specialist before handling this product.	e approved by
Body protection	Personal protective equipment for the body should be selected based or being performed and the risks involved and should be approved by a sp handling this product. When there is a risk of ignition from static electric static protective clothing. For the greatest protection from static dischar should include anti-static overalls, boots and gloves. Refer to European 1149 for further information on material and design requirements and te	ecialist before city, wear anti- ges, clothing o Standard EN est methods.
Gloves	: butyl rubber	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved stan worn at all times when handling chemical products if a risk assessment is necessary. Considering the parameters specified by the glove manuf during use that the gloves are still retaining their protective properties. If noted that the time to breakthrough for any glove material may be differe glove manufacturers. In the case of mixtures, consisting of several subs protection time of the gloves cannot be accurately estimated. When pro- frequently repeated contact may occur, a glove with a protection class o (breakthrough time greater than 480 minutes according to EN 374) is re When only brief contact is expected, a glove with a protection class of 2 (breakthrough time greater than 30 minutes according to EN 374) is recor- The user must check that the final choice of type of glove selected for ha product is the most appropriate and takes into account the particular cor as included in the user's risk assessment.	indicates this facturer, check t should be ent for different stances, the blonged or of 6 commended. or higher commended. andling this
Skin protection		dand ab and d b a
Eye/face protection	: Chemical splash goggles. Use eye protection according to EN 166.	
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical proceeding, smoking and using the lavatory and at the end of the working per Appropriate techniques should be used to remove potentially contamina Contaminated work clothing should not be allowed out of the workplace. contaminated clothing before reusing. Ensure that eyewash stations an showers are close to the workstation location.	riod. ited clothing. . Wash
Individual protection meas	<u>sures</u>	
Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exha or other engineering controls to keep worker exposure to airborne conta any recommended or statutory limits. The engineering controls also nee vapour or dust concentrations below any lower explosive limits. Use exp ventilation equipment.	aminants below ed to keep gas,
8.2 Exposure controls		

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### **SECTION 8: Exposure controls/personal protection**

**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**

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

<u>Appearance</u>								
Physical state	1	Liquid.						
Colour	:	Green.						
Odour	:	Aromatic.						
Odour threshold	:	Not available.						
Melting point/freezing point	:	May start to solidify at the following temperature: -94.9°C (-138.8°F) This is based on data for the following ingredient: ethylbenzene. Weighted average: -95.11°C -139.2°F)						
Initial boiling point and boiling range	-	>37.78°C						
Flammability	:	Not available.						
Upper/lower flammability or explosive limits	-	Greatest known range: Lo	ower: 1.7% Upp	er: 10.9% (2-	methylpropan-1-ol)			
Flash point	:	Closed cup: 25°C						
Auto-ignition temperature	1							
		Ingredient name	°C	°F	Method			
		2-methylpropan-1-ol	415	779				
Decomposition temperature	:	Stable under recommend	ed storage and	handling cond	litions (see Section 7).			
рН	:	Not applicable. insoluble i	in water.					
Viscosity	:	Kinematic (40°C): >21 mr	m²/s					
Solubility(ies)	:							

	Media	Result
	cold water	Not soluble
Ρ	artition coefficient: n-octanol/ : N	lot applicable.

water

2

#### Vapour pressure

		Vapour Pressure at 20°C			Vapour pressure at 50°C			
	Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
	methylpropan-1-ol	<12.00102	<1.6	DIN EN 13016-2				
Evaporation rate	: Highest known value butyl acetate	Highest known value: 0.84 (ethylbenzene) Weighted average: 0.78compared with butyl acetate						
Relative density	: 1.35							
Vapour density	: Highest known value	e: 3.7 (Aiı	r = 1) (x	ylene). Weigł	nted aver	age: 3.66	6 (Air = 1)	
Explosive properties	: The product itself is vapour or dust with a	•		t the formation	of an ex	plosible r	nixture of	

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SECTION 9: Physical and chemical properties					

: Product does not present an oxidizing hazard.

### SECTION 9: Physical and chemical properties

Oxidising properties

Particle characteristics

: Not applicable.

## Median particle size

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 sulfur oxides halogenated compounds metal oxide/oxides			

## **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
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 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	-
N,N'-ethane-1,2-diylbis	LC50 Inhalation Dusts and	Rat	>5.11 mg/l	4 hours
(12-hydroxyoctadecan-1-amide)	mists			
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
toluene	LC50 Inhalation Vapour	Rat	49 g/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	8.39 g/kg	-
	LD50 Oral	Rat	5580 mg/kg	-

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

#### Acute toxicity estimates

Route	ATE value
Øermal	7973.28 mg/kg
Inhalation (vapours)	46.5 mg/l

Irritation/Corrosion

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## **SECTION 11: Toxicological information**

Product/ingredien	nt name	Result	Species	Score	Exposure	Observation
xylene		Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Conclusion/Summary			1			
Skin	: There are	no data available on the r	nixture itself			
Eyes	: There are	no data available on the r	nixture itself			
Respiratory	: There are	no data available on the r	nixture itself			
<b>Sensitisation</b>						
<b>Conclusion/Summary</b>						
Skin	: There are	e no data available on the	mixture itsel	f.		
Respiratory	: There are	e no data available on the	mixture itsel	f.		
Mutagenicity						
<b>Conclusion/Summary</b>	: There are	e no data available on the	mixture itsel	f.		
<b>Carcinogenicity</b>						
<b>Conclusion/Summary</b>	: There are	e no data available on the	mixture itsel	f.		
Reproductive toxicity						
<b>Conclusion/Summary</b>	: There are	e no data available on the	mixture itsel	f.		
Teratogenicity						
Conclusion/Summary	: There are	e no data available on the	mixture itsel	f.		
Specific target organ toxi	icity (single ovr	ocuro)				

#### Specific target organ toxicity (single exposure)

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

#### Specific target organ toxicity (repeated exposure)

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

#### Aspiration hazard

Product/ingredient name	Result
xylene	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1
toluene	ASPIRATION HAZARD - Category 1

Information on likely routes of exposure

: Not available.

#### Potential acute health effects

Inhalation	: May cause respiratory irritation.
Ingestion	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Eye contact	: Causes serious eye irritation.

#### Symptoms related to the physical, chemical and toxicological characteristics

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Inhalation	: Adverse symptor respiratory tract i coughing	ns may include the following: rritation	
Ingestion	: No specific data.		
Skin contact	: Adverse symptor irritation redness dryness cracking	ns may include the following:	
Eye contact	: Adverse symptor pain or irritation watering redness	ns may include the following:	
Delayed and immediate effe	<u>cts as well as chror</u>	nic effects from short and long-term	<u>exposure</u>
Short term exposure Potential immediate effects	: Not available.		
Potential delayed effects	: Not available.		
Long term exposure			
Potential immediate effects	: Not available.		
Potential delayed effects	: Not available.		
Potential chronic health effe	<u>cts</u>		
Not available.			
Conclusion/Summary	: Not available.		
General	: Prolonged or rep	eated contact can defat the skin and le sensitized, a severe allergic reaction r ow levels.	
Carcinogenicity	: No known signific	cant effects or critical hazards.	
Mutagenicity	: No known signific	cant effects or critical hazards.	
Reproductive toxicity	: No known signific	cant effects or critical hazards.	
Other information	: Not available.		

Prolonged or repeated contact may dry skin and cause irritation. Sanding and grinding dusts may be harmful if inhaled. 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.

#### 11.2 Information on other hazards

#### **11.2.1 Endocrine disrupting properties**

Not available.

#### 11.2.2 Other information

Not available.

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**SECTION 12: Ecological information** 

#### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan- 1-amide)	Acute EC50 29 to 43 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 94 mg/l	Daphnia - <i>Daphnia</i> <i>magna</i>	48 hours

**Conclusion/Summary** 

: There are no data available on the mixture itself.

#### 12.2 Persistence and degradability

ethylbenzene-79 % - Readily - 10 daysN,N'-ethane-1,2-diylbis-63 % - 28 days(12-hydroxyoctadecan- 1-amide)-63 % - 28 days-	Product/ingredient name	Test	Result	Dose	Inoculum
	N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan-	-		-	-

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

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
xylene ethylbenzene N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-	- - -		Readily Readily Readily
1-amide) toluene	-	-	Readily

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
xylene	3.12	7.4 to 18.5	Low
ethylbenzene	3.6	79.43	Low
2-methylpropan-1-ol	1	-	Low
N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-	>6	-	High
1-amide)			
toluene	2.73	8.32	Low

#### 12.4 Mobility in soil

Soil/water partition coefficient (Koc)	: 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

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### **SECTION 12: Ecological information**

Not available.

#### 12.7 Other adverse effects

No known significant effects or critical hazards.

## **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<br/>of this product, solutions and any by-products should at all times comply with the<br/>requirements of environmental protection and waste disposal legislation and any<br/>regional local authority requirements. Dispose of surplus and non-recyclable products<br/>via a licensed waste disposal contractor. Waste should not be disposed of untreated to<br/>the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

#### Hazardous waste

European waste catalogue (EWC)

Waste code	Waste designation
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
De alva vin v	-

#### 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 l 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. veld 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	UN1263	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	III	III	III	III
English (GB)		Euro	ppe	15/18

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## **SECTION 14: Transport information**

14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	Not applicable.	(4,4'- Isopropylidenediphenol, oligomeric reaction products with 1-chloro- 2,3-epoxypropane, reaction products with fatty acids, C18-unsatd. , dimers)	Not applicable.

#### Additional information

	ADR/RID	:	
	Tunnel code	code : (D/E)	
		: 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.		
IATA : The environmentally hazardous substance mark may appear if required by other transportation regulations.			
	14.6 Special precuser	autions 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 tran 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.

Substances of very high concern

None of the components are listed.

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

#### Ozone depleting substances (1005/2009/EU)

Not listed.

#### Seveso Directive

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This product is controlled under the Seveso Directive.

## **Danger criteria**

#### Category

P5c E2

## **15.2 Chemical safety**

: No Chemical Safety Assessment has been carried out.

assessment

## **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.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
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.
H361d	Suspected of damaging the unborn child.
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 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 Asp. Tox. 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 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
Repr. 2	REPRODUCTIVE TOXICITY - Category 2
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
<u> </u>	

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Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1B	SKIN SENSITISATION - Category 1B
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
History	
Date of issue/ Date of : 29 August 2024	L

Date of issue/ Date of	
revision	
Date of previous issue	

9 August 2024

Date of previous issue	:	13 February 2023
Prepared by	:	EHS
Version	:	2

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