SAFETY DATA SHEET

Date of issue/Date of revision

: 9 October 2024

Version

: 3





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

_	
1.1 Product identifier	
Product name	: SIGMAPRIME 700 HARDENER
Product code	: 000001074765
Other means of identification	ation
00317124; 00471886	
1.2 Relevant identified use	es of the substance or mixture and uses advised against
Product use	: Professional applications, Used by spraying.
Use of the substance/ mixture	: Hardener.; 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

: PS.ACEMEA@ppg.com

1.4 Emergency telephone : +20 2 6840902 number

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

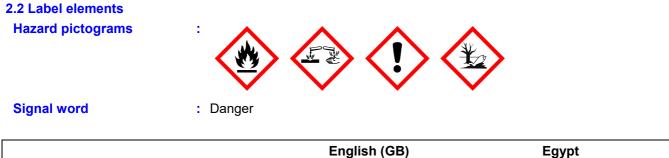
Product definition : Mixture Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

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.

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



Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU)
2020/878	

Code : 000001074765	Date of issue/Date of revision	: 9 October 2024
SIGMAPRIME 700 HARDENER		

SECTION 2: Hazards identification

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
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	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 contains substances that are assessed to be a PBT or a vPvB, refer to Section 3.2.
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	%	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	ATE [Dermal] = 1700 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1] [2]
		English	i (GB)	Egypt	2/16

Code	: 000001074765	Date of issue/Date of revision	: 9 October 2024
SIGMAPRIM	IE 700 HARDENER		
SECTIO	N 3: Composition/infor	mation on ingredients	
		Eye Irrit. 2, H319 STOT SE 3, H335	
		Asp. Tox. 1, H304	

			STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 3, H412		
Phenol, methylstyrenated	REACH #: 01-2119555274-38 EC: 270-966-8 CAS: 68512-30-1	≥10 - ≤25	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412	-	[1] [3]
1-methoxy-2-propanol	REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3	≥5.0 - ≤10	Flam. Liq. 3, H226 STOT SE 3, H336	-	[1] [2]
2-methylpropan-1-ol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	≥5.0 - ≤9.4	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	-	[1] [2]
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]
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]
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 See Section 16 for the full text of the H statements declared above.	ATE [Oral] = 1716 mg/ kg ATE [Dermal] = 1465 mg/kg	[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

[3] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

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

Code	: 000001074765	Date of issue/Date of revision	: 9 October 2024
SIGMAPRIME	E 700 HARDENER		

SECTION 4: First aid measures

4.1 Description of first aid m	easures
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

Inhalation: May causeSkin contact: Causes set	ious eye damage. respiratory irritation. /ere burns. Defatting to the skin. May cause an allergic skin reaction. o the digestive tract. Causes burns.
Inhalation: May causeSkin contact: Causes set	respiratory irritation. /ere burns. Defatting to the skin. May cause an allergic skin reaction.
Skin contact : Causes set	vere burns. Defatting to the skin. May cause an allergic skin reaction.
Ingestion : Corrosive t	o the digestive tract. Causes burns.
Over-exposure signs/symptoms	
Eye contact : Adverse sy pain watering redness	mptoms may include the following:
•	mptoms may include the following: tract irritation
Skin contact : Adverse sy pain or irrit redness dryness cracking blistering r	
Ingestion : Adverse sy stomach p	mptoms may include the following: ains
4.3 Indication of any immediate medical att	ention and special treatment needed
	nhalation of decomposition products in a fire, symptoms may be delayed. In person may need to be kept under medical surveillance for 48 hours.
Specific treatments : No specific	treatment.

SECTION 5: Firefighting measures

	5	5
5.1 Extinguishing media		
Suitable extinguishing media	:	Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishir media	ng :	Do not use water jet.

Code : 000001074765 SIGMAPRIME 700 HARDENER Date of issue/Date of revision

: 9 October 2024

SECTION 5: Firefighting measures

•	-				
5.2 Special hazards arising f	m the substance or mixture				
Hazards from the substance or mixture					
Hazardous combustion products	Decomposition products may include the following materials: carbon oxides nitrogen 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.	9			
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breath apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to Europe standard EN 469 will provide a basic level of protection for chemical incidents.	g			

SECTION 6: Accidental release measures

6.1 Personal precautions, pro	tective 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.
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 for	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.

Code : 000001074765 SIGMAPRIME 700 HARDENER Date of issue/Date of revision

: 9 October 2024

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.
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				
x ylene	limits for air pollutants ins	vironmental Law, Annex 8 - Maxim ide workplaces (Egypt, 8/2011) [xyl			
	(o-, m-, p-isomers)]				
	STEL 15 minutes: 651 mg/				
	STEL 15 minutes: 150 ppn	۱.			
	TWA 8 hours: 434 mg/m ³ .				
	TWA 8 hours: 100 ppm.				
1-methoxy-2-propanol	ACGIH TLV (United States	, 7/2023) A4.			
	TWA 8 hours: 50 ppm.				
	TWA 8 hours: 184 mg/m ³ .				
	STEL 15 minutes: 100 ppn	۱.			
	STEL 15 minutes: 369 mg/	m ³ .			
<u>.</u>	English (GB)	Egypt 6/1	6		

2020/878		
Code : 00000107476		Date of issue/Date of revision: 9 October 2024
SIGMAPRIME 700 HARDENE	:R	
2-methylpropan-1-ol ethylbenzene		 Law Number 4 of 1994, Environmental Law, Annex 8 - Maximum limits for air pollutants inside workplaces (Egypt, 8/2011) TWA 8 hours: 152 mg/m³. TWA 8 hours: 50 ppm. Law Number 4 of 1994, Environmental Law, Annex 8 - Maximum limits for air pollutants inside workplaces (Egypt, 8/2011) STEL 15 minutes: 543 mg/m³. STEL 15 minutes: 125 ppm. TWA 8 hours: 434 mg/m³.
		TWA 8 hours: 100 ppm.
x ylene		DOL BEI (South Africa, 3/2021) [xylenes] BEI: 1.5 g/g creatinine, methylhippuric acid [in urine]. Sampling tin end of shift.
ethylbenzene		DOL BEI (South Africa, 3/2021) BEI: 0.15 g/g creatinine, sum of mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: end of shift.
Recommended monitoring procedures	Standard EN by inhalation t strategy) Eur application ar biological age requirements agents) Refe	ould be made to monitoring standards, such as the following: Europear 689 (Workplace atmospheres - Guidance for the assessment of exposite chemical agents for comparison with limit values and measurement ropean Standard EN 14042 (Workplace atmospheres - Guide for the nd use of procedures for the assessment of exposure to chemical and ents) European Standard EN 482 (Workplace atmospheres - General for the performance of procedures for the measurement of chemical erence to national guidance documents for methods for the determination substances will also be required.
8.2 Exposure controls		
Appropriate engineering controls	other engineer recommender	adequate ventilation. Use process enclosures, local exhaust ventilation ering controls to keep worker exposure to airborne contaminants below a d or statutory limits. The engineering controls also need to keep gas, st concentrations below any lower explosive limits. Use explosion-proof uipment.
Individual protection measu	<u>ures</u>	
Hygiene measures	eating, smoki Appropriate te Contaminated contaminated	forearms and face thoroughly after handling chemical products, before ing and using the lavatory and at the end of the working period. echniques should be used to remove potentially contaminated clothing. d work clothing should not be allowed out of the workplace. Wash d clothing before reusing. Ensure that eyewash stations and safety close to the workstation location.
Eye/face protection <u>Skin protection</u>	: Chemical spla	ash goggles and face shield.
Hand protection	worn at all tim necessary. C during use tha noted that the glove manufa protection tim frequently rep (breakthrough When only br (breakthrough The user mus product is the	istant, impervious gloves complying with an approved standard should be nes when handling chemical products if a risk assessment indicates this considering the parameters specified by the glove manufacturer, check at the gloves are still retaining their protective properties. It should be time to breakthrough for any glove material may be different for different acturers. In the case of mixtures, consisting of several substances, the the of the gloves cannot be accurately estimated. When prolonged or beated contact may occur, a glove with a protection class of 6 in time greater than 480 minutes according to EN 374) is recommended. ief contact is expected, a glove with a protection class of 2 or higher in time greater than 30 minutes according to EN 374) is recommended. st check that the final choice of type of glove selected for handling this e most appropriate and takes into account the particular conditions of use
Gloves	as included in : nitrile neopre	n the user's risk assessment. ene

: nitrile neoprene

Code : 000001074765	Date of issue/Date of revision : 9 October 2024
SIGMAPRIME 700 HARDENER	
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 antistatic 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	:
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

Physical state : Liquid. Colour : Colourless. Odour : Aromatic. Odour threshold : Not available. Melting point/freezing point : Not determined. Initial boiling point and boiling range : >37.78°C Flammability : Not determined. There are no data available on the mixture itself. Upper/lower flammability or explosive limits : Not available. Flash point : Closed cup: 30°C Auto-ignition temperature : Ingredient name °C °F 1-methoxy-2-propanol 270 518									
Colour : Colourless. Odour : Aromatic. Odour threshold : Not available. Melting point/freezing point : Not determined. Initial boiling point and : >37.78°C boiling range : Not determined. Flammability : Not determined. There are no data available on the mixture itself. Upper/lower flammability or explosive limits : Not available. Flash point : Closed cup: 30°C Auto-lgnition temperature : Stable under recommended storage and handling conditions (see Section 7). pH : Not applicable. insoluble in water. Viscosity : Bynamic (room temperature): Not available. Kinematic (room temperature): Not available. Kinematic (room temperature): Not available. Kinematic (room temperature): Not available. Kinematic (40°C): >21 mm²/s Viscosity : 60 - 100 s (ISO 6mm) Solubility(ies) : Media Result cold water Not soluble Partition coefficient: n-octanol/ : Not applicable. Wapour pressure : Ingredient name Vapour Pressure at 20°C Vapour pressure at 50° mm Hg kPa Me	<u>Appearance</u>								
Odour : Aromatic. Odour threshold : Not available. Melting point/freezing point : Not determined. Initial boiling range : >37.78°C Flammability : Not determined. There are no data available on the mixture itself. Upper/lower flammability or explosive limits : Not available. Flash point : Closed cup: 30°C Auto-ignition temperature : Ingredient name °C °F Method 1-methoxy-2-propanol 270 518	Physical state	:	Liquid.						
Odour threshold : Not available. Melting point/freezing point : Not determined. Initial boiling point and boiling point and boiling point and boiling range : >37.78°C Flammability : Not determined. There are no data available on the mixture itself. Upper/lower flammability or explosive limits : Not available. Flash point : Closed cup: 30°C Auto-ignition temperature : Closed cup: 30°C Decomposition temperature : Stable under recommended storage and handling conditions (see Section 7). pH : Not available. insoluble in water. Viscosity : Øynamic (room temperature): Not available. Kinematic (a0°C): >24 mm²/s Viscosity : 60 - 100 s (ISO 6mm) Solubility(ies) : Media Result cold water Not applicable. Vapour pressure : Not applicable. Vapour pressure : Not applicable. vage : Not applicable. ingredient name : Vapour Pressure at 20°C Vapour pressure : Ingredient name ''''''''''''''''''''''''''''''''''''	Colour	:	Colourless.	Colourless.					
Melting point/freezing point : Not determined. Initial boiling point and : >37.78°C boiling range : Not determined. There are no data available on the mixture itself. Image: Planmability : Not determined. There are no data available on the mixture itself. Upper/lower flammability or explosive limits : Not available. Flammability : Not available. Equation temperature : Closed cup: 30°C Auto-ignition temperature : Closed cup: 30°C Decomposition temperature : Stable under recommended storage and handling conditions (see Section 7). pH : Not applicable. insoluble in water. Viscosity : Dynamic (room temperature): Not available. Kinematic (room temperature): Not available. Kinematic (40°C): >21 mm²/s Viscosity : 60 - 100 s (ISO 6mm) Solubility(ies) : Media Result cold water Not applicable. Partition coefficient: n-octanol/ : Not applicable. water : Vapour pressure : ingredient name Yapour Pressure at 20°C Vapour pressure at 50° ingredient name : : : ingredient name :	Odour	:	Aromatic.	romatic.					
Initial boiling point and : >37.78°C boiling range : Not determined. There are no data available on the mixture itself. Upper/lower flammability or : Not available. Evaplosive limits : Closed cup: 30°C Auto-ignition temperature : Closed cup: 30°C Auto-ignition temperature : Stable under recommended storage and handling conditions (see Section 7). pH : Stable under recommended storage and handling conditions (see Section 7). pH : Not applicable. insoluble in water. Viscosity : Dynamic (room temperature): Not available. Kinematic (40°C): >21 mm ² /s Viscosity : 60 - 100 s (ISO 6mm) Solubility(ies) : Media Result cold water Not soluble Partition coefficient: n-octanol/ : Not applicable. water Vapour pressure : Ingredient name Vapour Pressure at 20°C Vapour pressure at 50°. Ingredient name Mathematica (12.00102 <1.6 DIN EN 13016-2 J IN EN 13016-	Odour threshold	:	Not available.						
boiling range Flammability : Not determined. There are no data available on the mixture itself. Upper/lower flammability or explosive limits Flash point : Closed cup: 30°C Auto-ignition temperature : Closed cup: 30°C Decomposition temperature : Stable under recommended storage and handling conditions (see Section 7). pH : Not applicable. insoluble in water. Viscosity : Dynamic (room temperature): Not available. Kinematic (room temperature): >400 mm²/s Kinematic (40°C): >21 mm²/s Viscosity : 60 - 100 s (ISO 6mm) Solubility(ies) : Media Result cold water Not soluble Partition coefficient: n-octanol/ : Not applicable. water Vapour pressure : Ingredient name Vapour Pressure at 20°C Vapour pressure at 50° Ingredient name Vapour Pressure at 20°C Vapour pressure at 50° methylpropan-1-ol <12.00102 <1.6 DIN EN 13016-2 I DIN EN 13016-2	Melting point/freezing point	1	Not determined.						
Upper/lower flammability or explosive limits : Not available. Flash point : Closed cup: 30°C Auto-ignition temperature : Ingredient name °C °F Method 1-methoxy-2-propanol 270 518	Initial boiling point and boiling range	:	>37.78°C						
explosive limits Flash point : Closed cup: 30°C Auto-ignition temperature : Ingredient name °C °F Method 1-methoxy-2-propanol 270 518	Flammability	:	Not determined. The	ere are no	data ava	ailable on the i	mixture it	self.	
Auto-ignition temperature : Ingredient name °C °F Method 1-methoxy-2-propanol 270 518	Upper/lower flammability or explosive limits	:	Not available.						
Instruct Instruct Instruct 1-methoxy-2-propanol 270 518 Decomposition temperature pH : Stable under recommended storage and handling conditions (see Section 7). Viscosity : Not applicable. insoluble in water. Viscosity : Dynamic (room temperature): Not available. Kinematic (room temperature): >400 mm²/s Kinematic (40°C): >21 mm²/s Viscosity : 60 - 100 s (ISO 6mm) Solubility(ies) : Media Result cold water Not soluble Partition coefficient: n-octanol/ water : Vapour pressure : Ingredient name Vapour Pressure at 20°C Vapour pressure at 50°C ingredient name : : Ingredient name : : Ingredient name : : : Ingredient name : : : Ingredient name : : : : Ingredient name : : : : : Simplifyingregan-1-ol : : : : :	Flash point	:	Closed cup: 30°C						
Decomposition temperature pH : Stable under recommended storage and handling conditions (see Section 7). Viscosity : Dynamic (room temperature): Not available. Kinematic (room temperature): >400 mm²/s Kinematic (40°C): >21 mm²/s Viscosity : 60 - 100 s (ISO 6mm) Solubility(ies) : Media Result cold water Not soluble Partition coefficient: n-octanol/ water : Not applicable. Wapour pressure Vapour pressure at 20°C Vapour pressure at 50°C ingredient name Wapour Pressure at 20°C Vapour pressure at 50°C ingredient name (12.00102 <1.6	Auto-ignition temperature	:	Ingredient name		°C	°F	1	Method	
pH : Not applicable. insoluble in water. Viscosity : Dynamic (room temperature): Not available. Kinematic (room temperature): >400 mm²/s Kinematic (40°C): >21 mm²/s Viscosity : 60 - 100 s (ISO 6mm) Solubility(ies) : Media Result cold water Not soluble Partition coefficient: n-octanol/ : Not applicable. water Vapour pressure : Vapour pressure at 20°C Vapour pressure at 50°C Ingredient name Vapour Pressure at 20°C Vapour pressure at 50°C mm Hg kPa Method mm kPa Method Prethylpropan-1-ol <12.00102 <1.6 DIN EN 13016-2 J J J J J J J J J J J J J J J J J J J			1-methoxy-2-propanol		270	518			
Viscosity : Dynamic (room temperature): Not available. Kinematic (room temperature): >400 mm²/s Kinematic (40°C): >21 mm²/s Viscosity : 60 - 100 s (ISO 6mm) Solubility(ies) : Media Result cold water Not soluble Partition coefficient: n-octanol/ : Vapour pressure : Ingredient name Vapour Pressure at 20°C Vapour pressure at 50°C Vapour pressure : Ingredient name Wethod mm Hg Prnethylpropan-1-ol <12.00102	Decomposition temperature	:	Stable under recom	mended s	torage a	nd handling co	onditions	(see Sec	tion 7).
Kinematic (room temperature): >400 mm²/s Kinematic (40°C): >21 mm²/s Viscosity : 60 - 100 s (ISO 6mm) Solubility(ies) : Media Result cold water Not soluble Partition coefficient: n-octanol/ : Not applicable. water Vapour Pressure at 20°C Vapour pressure at 50°C Vapour pressure : Ingredient name Method mm kPa Method Image: Contract of the second seco	рН	:	Not applicable. insol	luble in wa	iter.				
Viscosity : 60 - 100 s (ISO 6mm) Solubility(ies) : Media Result cold water Not soluble Partition coefficient: n-octanol/ : Not applicable. water Vapour Pressure at 20°C Vapour pressure at 50°C Vapour pressure : Ingredient name Vapour Pressure at 20°C Vapour pressure at 50°C Vapour pressure : : : Ingredient name : : Vapour pressure : : : : : : : Vapour pressure : <td>Viscosity</td> <td>-</td> <td>Kinematic (room ter</td> <td>nperature)</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Viscosity	-	Kinematic (room ter	nperature)					
Solubility(ies) : Media Result cold water Not soluble Partition coefficient: n-octanol/ : Not applicable. water Vapour pressure at 20°C Vapour pressure at 50°C Vapour pressure : Ingredient name Vapour Pressure at 20°C Vapour pressure at 50°C Vapour pressure : : Ingredient name Vapour Pressure at 20°C Vapour pressure at 50°C Vapour pressure : : : : Ingredient name Ingredient name Vapour pressure : : : : : : : Vapour pressure : <t< td=""><td>Viscosity</td><td></td><td>()</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Viscosity		()						
Media Result cold water Not soluble Partition coefficient: n-octanol/ Not applicable. water Vapour pressure Vapour Pressure at 20°C Vapour pressure at 50°C Vapour pressure Ingredient name Vapour Pressure at 20°C Vapour pressure at 50°C Pressure Ingredient name Vapour Pressure at 20°C Vapour pressure at 50°C Image: State of the st		-		,					
Vapour pressure Vapour Pressure at 20°C Vapour pressure at 50°C Ingredient name Vapour Pressure at 20°C Vapour pressure at 50°C Image: State of the state of t			Result						
Water Vapour pressure Vapour Pressure at 20°C Vapour pressure at 50°C Ingredient name Imm Hg kPa Method mm kPa Method Imm Hg kPa Method mm Hg Method Method Imm Hg kPa Imm Hg kPa Method Imm Method Imm Hg kPa Imm Hg kPa Imm Imm Imm Imm Imm Hg kPa Imm kPa Imm	cold water		Not soluble						
Ingredient namemm HgkPaMethodmm HgkPaMethodImage: Market	Partition coefficient: n-octanol/ water	:	Not applicable.						
mm HgkPaMethodmm HgkPaMethodImage: Method property of the second s	Vapour pressure	:		Vapo	ur Press	sure at 20°C	Vap	our pres	sure at 50°C
13016-2			Ingredient name	mm Hg	kPa	Method		kPa	Method
Relative density : 0.96			2-methylpropan-1-ol	<12.00102	<1.6				
	Relative density	1	0.96	·	•			ł	

Conforms to Regulation (EC 2020/878	C) No. 1907/2006 (RE	ACH), Annex II, as amended by Commission	n Regulation (EU)
Code : 00000107476	65	Date of issue/Date of revision	: 9 October 2024
SIGMAPRIME 700 HARDEN	ER		
SECTION 9: Physica	al and chemica	al properties	
Explosive properties	•	t itself is not explosive, but the formation of an use with air is possible.	explosible mixture of
Oxidising properties	: Product doe	es 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

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
F 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	-
Phenol, methylstyrenated	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
1-methoxy-2-propanol	LC50 Inhalation Vapour	Rat	>7000 ppm	6 hours
	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	5.2 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	-
2,4,6-tris(dimethylaminomethyl)phenol	LD50 Dermal	Rat	1280 mg/kg	-
	LD50 Oral	Rat	1200 mg/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	-
3,6-diazaoctanethylenediamin	LD50 Dermal	Rabbit	1465 mg/kg	-
-	LD50 Oral	Rat	1716 mg/kg	-

English	(GB)
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Code<th:: 000001074765</th>Date of issue/Date of revision: 9 October 2024

SIGMAPRIME 700 HARDENER

SECTION 11: Toxicological information

Conclusion/Summary

: There are no data available on the mixture itself.

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	-	-	-
xylene	Skin - Irritant Skin - Moderate irritant	Human Rabbit	-	- 24 hours 500 mg	-

Conclusion/Summary

Skin : There are no data available on the mixture itself.

- Eyes : 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
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	skin	Mouse	Sensitising
3,6-diazaoctanethylenediamin	skin	Guinea pig	Sensitising

Conclusion/Summary	
Skin	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
<u>Mutagenicity</u>	
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 toxici	t <u>y (single exposure)</u>

Route of Target organs Product/ingredient name Category exposure Category 3 Respiratory tract irritation xylene 1-methoxy-2-propanol Category 3 Narcotic effects _ 2-methylpropan-1-ol Category 3 Respiratory tract irritation Category 3 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/ingredient name	Result
xylene	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1

Information on likely routes of exposure

: Not available.

Code<th: 000001074765</th>Date of issue/Date of revision: 9 October 2024SIGMAPRIME 700 HARDENER

SECTION 11: Toxicological information

Potential acute health effect	<u>s</u>
Inhalation	: May cause respiratory irritation.
Ingestion	: Corrosive to the digestive tract. Causes burns.
Skin contact	: Causes severe burns. Defatting to the skin. May cause an allergic skin reaction.
Eye contact	: Causes serious eye damage.
Symptoms related to the ph	ysical, chemical and toxicological characteristics
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Ingestion	: Adverse symptoms may include the following: stomach pains
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur
Eye contact	: Adverse symptoms may include the following: pain watering redness
Delayed and immediate effe	<u>cts as well as chronic effects from short and long-term exposure</u>
<u>Short term exposure</u>	
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	ects
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

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.

Code : 000001074765

SIGMAPRIME 700 HARDENER

Date of issue/Date of revision

: 9 October 2024

SECTION 11: Toxicological information

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Atty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	EC10 1.78 mg/l	Algae	72 hours
1-methoxy-2-propanol	Acute LC50 23300 mg/l	Daphnia	48 hours
	Acute LC50 >4500 mg/l Fresh water	Fish	96 hours
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
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
2 ,4,6-tris	OECD 301D	4 % - Not readily - 28 days	-	-
(dimethylaminomethyl)phenol	Ready			
	Biodegradability -			
	Closed Bottle			
	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
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	-	-	Not readily
xylene	-	-	Readily
2,4,6-tris(dimethylaminomethyl)phenol ethylbenzene	-	-	Not readily Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential	
X lene	3.12	7.4 to 18.5	Low	
Phenol, methylstyrenated	3.627	-	Low	
1-methoxy-2-propanol	<1	-	Low	
2-methylpropan-1-ol	1	-	Low	
2,4,6-tris(dimethylaminomethyl)phenol	0.219	-	Low	
ethylbenzene	3.6	79.43	Low	
3,6-diazaoctanethylenediamin	-1.66 to -1.4	-	Low	

12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Code : 000001074765	Date of issue/Date of revision	: 9 October 2024
SIGMAPRIME 700 HARDENER		

SECTION 12: Ecological information

Mobility

: Not available.

12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB
Atty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	No	N/A	N/A	No	N/A	N/A	N/A
xylene	No	N/A	No	No	No	N/A	No
Phenol, methylstyrenated	No	N/A	N/A	No	SVHC (Candidate)	Specified	Specified
1-methoxy-2-propanol	No	N/A	N/A	No	N/A	N/A	N/A
2-methylpropan-1-ol	No	N/A	N/A	No	N/A	N/A	N/A
2,4,6-tris (dimethylaminomethyl)phenol	No	N/A	N/A	No	N/A	N/A	N/A
ethylbenzene	No	N/A	No	Yes	No	N/A	No
3,6-diazaoctanethylenediamin	No	N/A	N/A	No	N/A	N/A	N/A

12.6 Endocrine disrupting properties

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 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. : Yes.

Hazardous waste

European waste catalogue (EWC)

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

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

English	(GB)
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Conforms to Regulation	(EC) No. 1907/2006	(REACH), Annex II,	as amended by C	ommission Regulat	ion (EU)
2020/878					

Code : 000001074765

Date of issue/Date of revision

: 9 October 2024

SIGMAPRIME 700 HARDENER

SECTION 13: Disposal considerations

residues may create a highly flammable or explosive atmosphere inside the container Do not cut, weld or grind used containers unless they have been cleaned thoroughly	Special precautions	internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways,
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SECTION 14: Transport information

	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN number or ID number	UN3469	UN3469	UN3469
14.2 UN proper shipping name	PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE	PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE	PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE
14.3 Transport hazard class(es)	3 (8)	3 (8)	3 (8)
14.4 Packing group		111	III
14.5 Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	(Polyamide)	Not applicable.

Additional 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)
IMDG	: The marine pollutant mark is not required when transported in sizes of \leq 5 L or \leq 5 kg.
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.

14.6 Special precautions 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 Transport in bulk	: Not applicable.
according to IMO	
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

Code	: 000001074765	Date of issue/Date of revision	: 9 October 2024
SIGMAP	RIME 700 HARDENER		

SECTION 15: Regulatory information

Intrinsic property	Ingredient name	Status	Reference number	Date of revision
₩₽vB	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	Candidate	D(2023) 8585-DC	1/23/2024

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

Other national and international regulations.

Explosive precursors: Not applicable.Ozone depleting substances (1005/2009/EU)Not listed.

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.

Full text of classifications [CLP/GHS]	: Acute Tox. 4 Aquatic Chronic 2 Aquatic Chronic 3 Asp. Tox. 1 Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Skin Corr. 1B Skin Corr. 1C Skin Irrit. 2 Skin Sens. 1	LONG-TERM (CHRO ASPIRATION HAZAR SERIOUS EYE DAM/ SERIOUS EYE DAM/ FLAMMABLE LIQUID FLAMMABLE LIQUID SKIN CORROSION/II SKIN CORROSION/II	NIC) AQUATIC HAZARD NIC) AQUATIC HAZARD D - Category 1 AGE/EYE IRRITATION - C AGE/EYE IRRITATION - C S - Category 2 S - Category 3 RRITATION - Category 1B RRITATION - Category 1C RRITATION - Category 2	- Category 3 ategory 1 ategory 2
statements	H226Flammable liqH302Harmful if swaH304May be fatal ifH312Harmful in corH312Harmful in corH314Causes severH315Causes severH316Causes skin irH317May cause anH318Causes seriouH319Causes seriouH320Harmful if inhaH335May cause resH336May cause daH411Toxic to aquatH412Harmful to aquad	uid and vapour. llowed. swallowed and enters air tact with skin. e skin burns and eye dam ritation. allergic skin reaction. s eye damage. s eye irritation. led. piratory irritation. owsiness or dizziness. mage to organs through p ic life with long lasting eff uatic life with long lasting	prolonged or repeated expe ects. effects.	osure.
Abbreviations and acronyms Full text of abbreviated H	1272/2008] DNEL = Derived No Effe EUH statement = CLP-s PNEC = Predicted No E RRN = REACH Registra	belling and Packaging Re ect Level pecific Hazard statement ffect Concentration	egulation [Regulation (EC)	No.

Code : 000001074765	Date of issue/Date of revision	: 9 October 2024
SIGMAPRIME 700 HARDENER		

SECTION 16: Other information

	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>		
Date of issue/ Date of revision	: 9 October 2024	
Date of previous issue	: 17 April 2024	
Prepared by	: EHS	
Version	: 3	
<u>Disclaimer</u>		

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