SAFETY DATA SHEET

United Arab Emirates

Date of issue/Date of revision

: 5 January 2024

Version

: 1

SECTION 1: Identific undertaking	cation of the substance/mixture and of the company/
1.1 Product identifier	
Product name	: SIGMACOVER 350 LT HARDENER
Product code	: 00268364
Other means of identificati Not available.	on
1.2 Relevant identified uses	of the substance or mixture and uses advised against
Product use	: Professional applications, Used by spraying.
Use of the substance/ mixture	: Coating.
Uses advised against	: Product is not intended, labelled or packaged for consumer use.
1.3 Details of the supplier of	f the safety data sheet
Sigma Paint Saudi Arabia Lto PO Box 7509 Dammam 31472 Saudi Arabia Tel: 00966 138 47 31 00 Fax: 00966 138 47 17 34	1.
e-mail address of person responsible for this SDS	: ndpic@sfda.gov.sa
1.4 Emergency telephone number	: 00966 138473100 extn 1001

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.

2.2 Label elements

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SIGMACOVER 350 LT HARDE	ENER	
SECTION 2: Hazards	identif	fication
Hazard pictograms	:	
Signal word	: Dange	
Hazard statements	: Flamn Cause May c May c	nable liquid and vapour. es severe skin burns and eye damage. ause an allergic skin reaction. ause respiratory irritation. to aquatic life with long lasting effects.
Precautionary statements		
Prevention	heat, l	protective gloves, protective clothing and eye or face protection. Keep away from hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid the to the environment.
Response	: Collec	t spillage.
Storage	: Store	in a well-ventilated place. Keep container tightly closed.
Disposal	interna	se of contents and container in accordance with all local, regional, national and ational regulations. P210, P273, P391, P403 + P233, P501
Hazardous ingredients	and tri xylene 2-metl 2,4,6-t 3,6-dia	acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids iethylenetetramine hylpropan-1-ol tris(dimethylaminomethyl)phenol azaoctanethylenediamin nopropyldimethylamine
Supplemental label elements	: Not ap	oplicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not ap	oplicable.
Special packaging requiren	<u>nents</u>	
Containers to be fitted with child-resistant fastenings	: Not ap	oplicable.
Tactile warning of danger	: Not ap	oplicable.
2.3 Other hazards		
Product meets the criteria for PBT or vPvB	: This n	nixture does not contain any substances that are assessed to be a PBT or a vPv
Other hazards which do not result in classification	: Cause irritatio	es digestive tract burns. Prolonged or repeated contact may dry skin and cause on.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

: Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors	Туре
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty	REACH #: 01-2119972320-44 EC: 500-191-5	≥10 - ≤25	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317	and ATEs	[1]
acids and triethylenetetramine	CAS: 68082-29-1		Aquatic Chronic 2, H411		
xylene	EC: 215-535-7 CAS: 1330-20-7	≥10 - ≤25	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Dermal] = 1700 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1] [2]
2-methylpropan-1-ol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	≥10 - <20	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	-	[1] [2]
benzyl alcohol	REACH #: 01-2119492630-38 EC: 202-859-9 CAS: 100-51-6 Index: 603-057-00-5	≥10 - ≤24	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Irrit. 2, H319	ATE [Oral] = 1230 mg/ kg ATE [Inhalation (dusts and mists)] = 1.5 mg/l	[1] [2]
Formaldehyde, polymer with N,N-dimethyl- 1,3-propanediamine and phenol	CAS: 445498-00-0	≥5.0 - ≤10	Acute Tox. 4, H302 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 500 mg/ kg M [Acute] = 1 M [Chronic] = 1	[1]
2,4,6-tris (dimethylaminomethyl) phenol	REACH #: 01-2119560597-27 EC: 202-013-9 CAS: 90-72-2 Index: 603-069-00-0	≥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 - ≤4.0	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412	ATE [Oral] = 1716 mg/ kg ATE [Dermal] = 1465 mg/kg	[1] [2]
3-aminopropyldimethylamine	REACH #: 01-2119486842-27	≤0.30	Flam. Liq. 3, H226 Acute Tox. 4, H302	ATE [Oral] = 410 mg/ kg	[1]
		English	(GB) United Arab Er	nirates	3/16

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SECTION 3: Composition/information on ingredients			

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EC	203-680-9	Acute Tox. 4, H312	ATE [Dermal] = 1100
CAS	S: 109-55-7	Skin Corr. 1B, H314	mg/kg
Inde	ex: 612-061-00-6	Eye Dam. 1, H318	
		Skin Sens. 1, H317	
		See Section 16 for	
		the full text of the H	
		statements declared	
		above.	

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.

Xylene: Several REACH registrations cover the REACH registered substance with xylene isomers, ethylbenzene (and toluene). The other REACH Registrations include: 01-2119555267-33 reaction mass of ethylbenzene and m-xylene and p-xylene, 01-2119486136-34 Aromatic hydrocarbons, C8, 01-2119539452-40 reaction mass of ethylbenzene and xylene.

Туре

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

SUB codes represent substances without registered CAS Numbers.

SECTION 4: First aid measures

4.1 Description of first aid measures

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

4.2 Most important symptoms and effects, both acute and delayed

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

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SECTION 4: First aid	measures
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains
4.3 Indication of any immedia	ate medical attention and special treatment needed
Notes to physician	 In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.
SECTION 5: Firefight	ting measures
5.1 Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
5.2 Special hazards arising f	rom the substance or mixture
Hazards from the substance or mixture	: Flammable 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 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.
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 Europear standard EN 469 will provide a basic level of protection for chemical incidents.

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".

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SECTION 6: Accidental release measures

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

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

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

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SECTION 7: Handling and storage

7.3 Specific end use(s)

See Section 1.2 for Identified uses.

SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
xylene	Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). [xylene (o, m & p isomers)] STEL: 651 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 434 mg/m³ 8 hours. TWA: 100 ppm 8 hours. Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006). [xylene (all isomers)] STEL: 150 ppm 15 minutes. TWA: 434 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. TWA: 434 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. TWA: 434 mg/m³ 8 hours. STEL: 651 mg/m³ 15 minutes. TWA: 100 ppm 8 hours. ACGIH TLV (United States, 1/2023). [p-xylene and mixtures containing p-xylene] Ototoxicant. TWA: 20 ppm 8 hours.
2-methylpropan-1-ol	 Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). TWA: 152 mg/m³ 8 hours. TWA: 50 ppm 8 hours. Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006). TWA: 152 mg/m³ 8 hours. TWA: 50 ppm 8 hours. ACGIH TLV (United States, 1/2023). TWA: 152 mg/m³ 8 hours. TWA: 152 mg/m³ 8 hours. TWA: 50 ppm 8 hours.
ethylbenzene	Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). STEL: 543 mg/m ³ 15 minutes. STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours. TWA: 434 mg/m ³ 8 hours. Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006). STEL: 125 ppm 15 minutes. TWA: 434 mg/m ³ 8 hours. STEL: 543 mg/m ³ 15 minutes. TWA: 100 ppm 8 hours. ACGIH TLV (United States, 1/2023). Ototoxicant. Notes: Substances for which there is a Biological Exposure Index or Indices 2002 Adoption. TWA: 20 ppm 8 hours.

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Recommended monitoring procedures	: Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure 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.
8.2 Exposure controls	
Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Individual protection measu	<u>res</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection <u>Skin protection</u>	: Chemical splash goggles and face shield.
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
Gloves	: nitrile neoprene
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	:
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.

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SECTION 9: Physical and chemical properties

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

Appearance Bloosing to to to							
Physical state	: Liquid.						
Colour		Not available.					
Odour	: Amine-like.						
Odour threshold	: Not availab				0°0 (=0 (
Melting point/freezing point		solidify at the follo following ingredier 37.9°F)	0		,	,	
Initial boiling point and boiling range	: >37.78°C						
Flammability	: Not availab	le.					
Jpper/lower flammability or explosive limits	: Greatest kr	own range: Lower:	1.3% L	Jpper: 13%	(benzyl al	cohol)	
Flash point	: Closed cup	: 29°C					
Auto-ignition temperature	: Ingredient	name	°C	°F		Method	
	3,6-diazaocta	nethylenediamin	337.78	640			
Decomposition temperature		er recommended st		nd handling	condition	s (see Sec	tion 7).
bH		ble. insoluble in wa	ter.				
/iscosity	 Kinematic (Kinematic (40°C): >21 mm²/s					
		,					
/iscosity	: 60 - 100 s (,					
/iscosity Solubility(ies)	: 60 - 100 s (,					
/iscosity Solubility(ies)		,					
Viscosity Solubility(ies) Media cold water	: 60 - 100 s (ISO 6mm)					
Viscosity Solubility(ies) Media cold water Partition coefficient: n-octanol	: 60 - 100 s (: Result Not soluble	ISO 6mm)					
Viscosity Solubility(ies) Media	: 60 - 100 s (: Result Not soluble / : Not applica	ISO 6mm)	ur Press	sure at 20°C	: Va	pour pres	sure at 50°(
Viscosity Solubility(ies) Media cold water Partition coefficient: n-octanol water	: 60 - 100 s (: Result Not soluble / : Not applica	ISO 6mm)		sure at 20°C Method	Va mm Hg	pour press	sure at 50°0
Viscosity Solubility(ies) Media cold water Partition coefficient: n-octanol water	: 60 - 100 s (: Result Not soluble / : Not applica	ISO 6mm) ble. t name Vapou mm Hg	kPa	1	mm		sure at 50°C
Viscosity Solubility(ies) Media cold water Partition coefficient: n-octanol water Vapour pressure	: 60 - 100 s (: Result Not soluble / : Not applica : Ingredient 2-methylprop: : Highest kno butyl acetat	ISO 6mm) e ble. t name Vapor mm Hg an-1-ol <12.00102 own value: 0.84 (etl	kPa <1.6	Method DIN EN 13016-2	mm Hg	kPa	Method
/iscosity Solubility(ies) Media cold water Partition coefficient: n-octanol vater /apour pressure Evaporation rate Relative density	: 60 - 100 s (: Result Not soluble / : Not applica : Ingredient 2-methylprop	ISO 6mm) e ble. t name Vapor mm Hg an-1-ol <12.00102 own value: 0.84 (etl	kPa <1.6	Method DIN EN 13016-2	mm Hg	kPa	Method
Viscosity Solubility(ies) Media cold water Partition coefficient: n-octanol water Vapour pressure	: 60 - 100 s (: Result Not soluble / : Not applica : Ingredient 2-methylprop : Highest kno butyl acetat : 0.95 : Highest kno average: 3.	ISO 6mm) ble. t name Vapor mm Hg an-1-ol <12.00102 own value: 0.84 (ether e own value: 5.04 (A 4 (Air = 1)	kPa <1.6 hylbenze	Method DIN EN 13016-2 ene) Weight 3,6-diazaoct	mm Hg ted avera anethyler	kPa ge: 0.52co nediamin).	Method mpared with Weighted
Viscosity Solubility(ies) Media cold water Partition coefficient: n-octanol vater /apour pressure Evaporation rate Relative density /apour density Explosive properties	 60 - 100 s (Result Not soluble / : Not applica : Ingredient 2-methylpropa : Highest knot butyl acetat : 0.95 : Highest knot average: 3. : The product vapour or d 	ISO 6mm) ble. t name an-1-ol vapou mm Hg an-1 ol vapou value: 0.84 (eth e vwn value: 5.04 (A 4 (Air = 1) t itself is not explose ust with air is possi	kPa <1.6 hylbenze ir = 1) (3 sive, but ible.	Method DIN EN 13016-2 ene) Weight 3,6-diazaoct the formatic	mm Hg ted avera anethyler	kPa ge: 0.52co nediamin).	Method mpared with Weighted
Viscosity Solubility(ies) Media cold water Partition coefficient: n-octanol vater /apour pressure Evaporation rate Relative density /apour density Explosive properties Dxidising properties	 60 - 100 s (Result Not soluble / : Not applica : Ingredient 2-methylpropa : Highest knot butyl acetat : 0.95 : Highest knot average: 3. : The product vapour or d 	ISO 6mm) ble. t name Vapor mm Hg an-1-ol <12.00102 own value: 0.84 (eth e own value: 5.04 (A 4 (Air = 1) t itself is not explose	kPa <1.6 hylbenze ir = 1) (3 sive, but ible.	Method DIN EN 13016-2 ene) Weight 3,6-diazaoct the formatic	mm Hg ted avera anethyler	kPa ge: 0.52co nediamin).	Method mpared with Weighted
Viscosity Solubility(ies) Media cold water Partition coefficient: n-octanol water	 60 - 100 s (Result Not soluble / : Not applica : Ingredient 2-methylpropa : Highest knot butyl acetat : 0.95 : Highest knot average: 3. : The product vapour or d 	ISO 6mm) ble. t name an-1-ol vapou mm Hg an-1 ol vapou value: 0.84 (eth e vwn value: 5.04 (A 4 (Air = 1) t itself is not explose ust with air is possi	kPa <1.6 hylbenze ir = 1) (3 sive, but ible.	Method DIN EN 13016-2 ene) Weight 3,6-diazaoct the formatic	mm Hg ted avera anethyler	kPa ge: 0.52co nediamin).	Method mpared with Weighted

No additional information.

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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
Fatty acids, C18-unsatd., dimers,	LD50 Dermal	Rat	>2000 mg/kg	-
oligomeric reaction products with tall-oil				
fatty acids and triethylenetetramine				
	LD50 Oral	Rat	>2000 mg/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
2-methylpropan-1-ol	LC50 Inhalation Vapour	Rat	24.6 mg/l	4 hours
	LD50 Dermal	Rabbit	2460 mg/kg	-
	LD50 Oral	Rat	2830 mg/kg	-
benzyl alcohol	LC50 Inhalation Dusts and	Rat	>4178 mg/m ³	4 hours
	mists		, C	
	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1.23 g/kg	-
2,4,6-tris(dimethylaminomethyl)phenol	LD50 Dermal	Rabbit	1.28 g/kg	-
	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	-
3-aminopropyldimethylamine	LD50 Dermal	Rabbit	>1000 mg/kg	-
	LD50 Oral	Rat	410 mg/kg	-

Conclusion/Summary :

: There are no data available on the mixture itself.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Fatty 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	-
2,4,6-tris(dimethylaminomethyl)phenol	Skin - Visible necrosis	Rabbit	-	4 hours	7 days

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Conclusion/Summary

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

Respiratory **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 toxic	ity (single exposure)

Product/ingredient name Category **Route of Target organs** exposure Respiratory tract irritation xylene Category 3 -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

Prod	luct/ingredient name	Result	
xylene ethylbenzene		ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1	
Information on likely routes of exposure	: Not available.		
Potential acute health e	<u>effects</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 r	eaction.
Eye contact	: Causes serious eye damage.		
Symptoms related to th	ne physical, chemical and toxicological	<u>characteristics</u>	
Inhalation	: Adverse symptoms may include t respiratory tract irritation coughing	he following:	
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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</u>	as well as chronic effects from short and long-term exposure
Short term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
<u>Long term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health effe	ct	<u>s</u>
Not available.		
Conclusion/Summary	:	Not available.
General	:	Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	:	No known significant effects or critical hazards.
Mutagenicity	:	No known significant effects or critical hazards.
Reproductive toxicity	:	No known significant effects or critical hazards.
Other information	:	Not available.

Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapour/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

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SECTION 12: Ecological information

Product/ingredient name	Result	Species	Exposure
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	EC10 1.78 mg/l	Algae	72 hours
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
2,4,6-tris(dimethylaminomethyl)phenol	Acute LC50 175 mg/l	Fish	96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh	Daphnia -	-
	water	Ceriodaphnia dubia	
3-aminopropyldimethylamine	Acute LC50 122 mg/l	Fish	96 hours

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

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
ethylbenzene	-	79 % - Readily - 10 days	-	-
3-aminopropyldimethylamine	OECD 301D	69 % - Readily - 20 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
benzyl alcohol	-	-	Readily
ethylbenzene	-	-	Readily
3-aminopropyldimethylamine	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential	
xylene	3.12	7.4 to 18.5	Low	
2-methylpropan-1-ol	1	-	Low	
benzyl alcohol	0.87	-	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	
3-aminopropyldimethylamine	-0.352	-	Low	

12.4 Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	
Mobility	: Not available.

12.5 Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

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No known significant effects or critical hazards.

SECTION 13: Disposal considerations

: Yes.

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

13.1 Waste treatment methods

Product

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

Hazardous waste

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
Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product 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 internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

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	Ш	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

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SECTION 1	4: Transpoi	rt information		
ADR/RID	≤5 kg.	mentally hazardous su	bstance mark is not required when trans	oorted in sizes of ≤5 L or
Tunnel code	: (D/E)			
IMDG IATA		•	equired when transported in sizes of ≤5 L bstance mark may appear if required by	•
14.6 Special pre user	ecautions for :		er's premises: always transport in close insure that persons transporting the prod or spillage.	
14.7 Transport according to IM		Not applicable.		
instruments				
instruments		ory information		
instruments SECTION 1	5: Regulato	•	gislation specific for the substance or	mixture
instruments SECTION 1 15.1 Safety, hea	5: Regulato	mental regulations/le	gislation specific for the substance or	mixture
instruments SECTION 1 15.1 Safety, hea <u>EU Regulation</u>	5: Regulato alth and environ (EC) No. 1907/2	mental regulations/le		mixture
instruments SECTION 1 15.1 Safety, hea <u>EU Regulation</u>	5: Regulato alth and environ (EC) No. 1907/2	mental regulations/le		mixture
instruments SECTION 1 15.1 Safety, hea EU Regulation Annex XIV - I Annex XIV	5: Regulato alth and environ (EC) No. 1907/2	mental regulations/le 2006 (REACH) es subject to authoris		mixture
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instruments SECTION 1 15.1 Safety, hea EU Regulation Annex XIV - I Annex XIV None of the c Substances	5: Regulato alth and environ (EC) No. 1907/2 List of substance components are li	mental regulations/le 2006 (REACH) es subject to authoris sted. <u>ncern</u>		mixture
instruments SECTION 1 15.1 Safety, hea EU Regulation Annex XIV - I Annex XIV None of the c Substances None of the c Annex XVII -	5: Regulato	mental regulations/le 2006 (REACH) es subject to authoris sted. <u>ncern</u>		r mixture
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instruments SECTION 1 15.1 Safety, hea EU Regulation Annex XIV - I Annex XIV None of the co Substances None of the co Annex XVII - on the manuf placing on the and use of co dangerous substances	5: Regulato	mental regulations/le 2006 (REACH) es subject to authoris sted. ncern sted.		mixture
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instruments SECTION 1 15.1 Safety, hea EU Regulation Annex XIV - I Annex XIV - I Annex XIV None of the c Substances None of the c Annex XVII - on the manuf placing on the and use of ce dangerous si mixtures and Other national	5: Regulato	mental regulations/le 2006 (REACH) es subject to authoris sted. <u>ncern</u> sted. Not applicable.		mixture
instruments SECTION 1 15.1 Safety, hea EU Regulation Annex XIV - I Annex XIV None of the co Substances None of the co Annex XVII - on the manuf placing on the and use of co dangerous si mixtures and Other national	5: Regulato	mental regulations/le 2006 (REACH) es subject to authoris sted. ncern sted. Not applicable.		mixture
instruments SECTION 1 15.1 Safety, hea EU Regulation Annex XIV - I Annex XIV None of the co Substances None of the co Annex XVII - on the manuf placing on the and use of co dangerous si mixtures and Other national	5: Regulato	mental regulations/le 2006 (REACH) es subject to authoris sted. ncern sted. Not applicable.		mixture

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
Full toxt of abbroviated H	

Full text of abbreviated H statements

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SECTION 16: Other i	nformation		
	H226Flammable liquid atH302Harmful if swalloweH304May be fatal if swalH312Harmful in contact yH314Causes severe skinH315Causes skin irritationH317May cause an allergyH318Causes serious eyeH319Causes serious eyeH332Harmful if inhaled.H335May cause drowsin	May cause respiratory irritation. May cause drowsiness or dizziness.	
	H400Very toxic to aquatiH410Very toxic to aquatiH411Toxic to aquatic life	e to organs through prolonged or repeated exposure. c life. c life with long lasting effects. e with long lasting effects. life with long lasting effects.	
Full text of classifications [CLP/GHS]	Aquatic Acute 1SAquatic Chronic 1L0Aquatic Chronic 2L0Aquatic Chronic 3L0Aquatic Chronic 3L0Asp. Tox. 1AEye Dam. 1SEye Irrit. 2SFlam. Liq. 2FFlam. Liq. 3FSkin Corr. 1BSSkin Corr. 1CSSkin Sens. 1SSkin Sens. 1ASSTOT RE 2SSTOT SE 3S	CUTE TOXICITY - Category 4 HORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 ONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 ONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 ONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 SPIRATION HAZARD - Category 1 ERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 ERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 LAMMABLE LIQUIDS - Category 2 LAMMABLE LIQUIDS - Category 3 KIN CORROSION/IRRITATION - Category 1B KIN CORROSION/IRRITATION - Category 1C KIN CORROSION/IRRITATION - Category 2 KIN SENSITISATION - Category 1 KIN SENSITISATION - Category 1 KIN SENSITISATION - Category 1 APECIFIC TARGET ORGAN TOXICITY - REPEATED XPOSURE - Category 3	
<u>History</u> Date of issue/ Date of revision	: 5 January 2024		
Date of previous issue	: No previous validation		
Prepared by	: EHS		
Version	: 1		
Disclaimer			

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