# **SAFETY DATA SHEET**

United Arab Emirates

#### Date of issue/Date of revision

: 8 October 2024

Version

: 2.01

SECTION 1: Identif undertaking	ication of the substance/mixture and of the company/
1.1 Product identifier	
Product name	: SIGMAZINC 102 HS HARDENER
Product code	: 00427248
Other means of identification Not available.	ition
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	: 🖉 oating.; Hardener.
Uses advised against	: Product is not intended, labelled or packaged for consumer use.
1.3 Details of the supplier	of the safety data sheet
Sigma Paint Saudi Arabia L PO Box 7509 Dammam 31472 Saudi Arabia Tel: 00966 138 47 31 00 Fax: 00966 138 47 17 34	.td.
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 <u>Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]</u>

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.



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# **SECTION 2: Hazards identification**

Hazard statements	<ul> <li>Flammable liquid and vapour.</li> <li>Causes severe skin burns and eye damage.</li> <li>May cause an allergic skin reaction.</li> <li>May cause respiratory irritation.</li> <li>Toxic to aquatic life with long lasting effects.</li> </ul>
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	: 🖉ollect spillage.
Storage	: Store in a well-ventilated place. Keep container tightly closed.
Disposal	<ul> <li>pispose 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>
Supplemental label elements	: Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.
Special packaging requiren	<u>nents</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	: 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]
Amides, from C18-unsatd. fatty acid dimers, tall-oil fatty acids and	CAS: 68953-09-3	≥10 - ≤25	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317	-	[1]
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SECTION 3: Compo	sition/informat	ion on ir	ngredients		
triethylenetetramine, reaction products with bisphenol A- epichlorohydrin polymer					
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7	≥10 - ≤25	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Dermal] = 1700 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1] [2]
2-methylpropan-1-ol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	≥10 - <20	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	-	[1] [2]
benzyl alcohol	REACH #: 01-2119492630-38 EC: 202-859-9 CAS: 100-51-6 Index: 603-057-00-5	≥10 - ≤25	Acute Tox. 4, H302 Eye Irrit. 2, H319 Skin Sens. 1B, H317	ATE [Oral] = 1200 mg/ kg	[1] [2]
2,4,6-tris (dimethylaminomethyl) phenol	REACH #: 01-2119560597-27 EC: 202-013-9 CAS: 90-72-2	≥5.0 - ≤10	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.

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. Type

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.

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## **SECTION 3: Composition/information on ingredients**

SUB codes represent substances without registered CAS Numbers.

### **SECTION 4: First aid measures**

4.1 Description of first aid n	neasures
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	<ul> <li>If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.</li> </ul>
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 healt	h effects
Eye contact	: Causes serious eye damage.
Inhalation	: May cause respiratory irritation.
Skin contact	: Causes severe burns. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: Corrosive to the digestive tract. Causes burns.
Over-exposure signs	/symptoms
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
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 in	nmediate medical attention and special treatment needed
Notes to physician	<ul> <li>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.</li> </ul>
Specific treatments	: No specific treatment.

# **SECTION 5: Firefighting measures**

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 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 halogenated compounds
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	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.

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# **SECTION 6: Accidental release measures**

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

: 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.
Materials such as cleaning rags, paper wipes and protective clothing, which are contaminated with the product may spontaneously self-ignite some hours later. To avoid the risks of fires, all contaminated materials should be stored in purpose-built containers or in metal containers with tight-fitting, self-closing lids. Contaminated materials should be removed from the workplace at the end of each working day and be stored outside.
: 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.
: 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	
xylene	Ministry of Labor (France, 9/2023) [xylènes, isomères mixtes,
	<b>purs]</b> Absorbed through skin.
	STEL 15 minutes: 442 mg/m³.
	STEL 15 minutes: 100 ppm.
	TWA 8 hours: 221 mg/m³.
	TWA 8 hours: 50 ppm.
2-methylpropan-1-ol	Ministry of Labor (France, 9/2023)
	TWA 8 hours: 50 ppm.
	TWA 8 hours: 150 mg/m³.
ethylbenzene	Ministry of Labor (France, 9/2023) Absorbed through skin.
	TWA 8 hours: 20 ppm.
	TWA 8 hours: 88.4 mg/m³.
	STEL 15 minutes: 442 mg/m <sup>3</sup> .
	STEL 15 minutes: 100 ppm.

Product/ingredient name	Exposure limit values
Viene	Abu Dhabi - OSHAD - Occupational air quality threshold limit         values (United Arab Emirates, 7/2016) [xylene (o, m & p isomers)]         A4.         STEL 15 minutes: 651 mg/m³.         STEL 15 minutes: 150 ppm.         TWA 8 hours: 434 mg/m³.         TWA 8 hours: 100 ppm.         Cabinet Decree (12) of 2006 Regarding Regulation Concerning         Protection of Air from Pollution (United Arab Emirates, 5/2006)         [xylene (all isomers)]         STEL 15 minutes: 150 ppm.         TWA 8 hours: 434 mg/m³.         STEL 15 minutes: 150 ppm.         TWA 8 hours: 434 mg/m³.         STEL 15 minutes: 150 ppm.         TWA 8 hours: 434 mg/m³.         STEL 15 minutes: 651 mg/m³.         TWA 8 hours: 100 ppm.         ACGIH TLV (United States, 7/2023) [p-xylene and mixtures         containing p-xylene] A4. Ototoxicant.         TWA 8 hours: 20 ppm.
2-methylpropan-1-ol ethylbenzene	<ul> <li>Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016)</li> <li>TWA 8 hours: 152 mg/m<sup>3</sup>.</li> <li>TWA 8 hours: 50 ppm.</li> <li>Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006)</li> <li>TWA 8 hours: 152 mg/m<sup>3</sup>.</li> <li>TWA 8 hours: 50 ppm.</li> <li>ACGIH TLV (United States, 7/2023)</li> <li>TWA 8 hours: 50 ppm.</li> <li>TWA 8 hours: 152 mg/m<sup>3</sup>.</li> <li>Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016) A3.</li> <li>STEL 15 minutes: 543 mg/m<sup>3</sup>.</li> <li>STEL 15 minutes: 125 ppm.</li> <li>TWA 8 hours: 100 ppm.</li> <li>TWA 8 hours: 434 mg/m<sup>3</sup>.</li> <li>Cabinet Decree (12) of 2006 Regarding Regulation Concerning</li> </ul>
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	<ul> <li>Protection of Air from Pollution (United Arab Emirates, 5/2006)</li> <li>STEL 15 minutes: 125 ppm.</li> <li>TWA 8 hours: 434 mg/m<sup>3</sup>.</li> <li>STEL 15 minutes: 543 mg/m<sup>3</sup>.</li> <li>TWA 8 hours: 100 ppm.</li> <li>ACGIH TLV (United States, 7/2023) A3. Ototoxicant.</li> <li>TWA 8 hours: 20 ppm.</li> </ul>
<b>xy</b> lene	<b>DOL BEI (South Africa, 3/2021) [xylenes]</b> BEI: 1.5 g/g creatinine, methylhippuric acid [in urine]. Sampling time: end of shift.
ethylbenzene	<b>DOL BEI (South Africa, 3/2021)</b> BEI: 0.15 g/g creatinine, sum of mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: end of shift.
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.
.2 Exposure controls	
Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation of 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	
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

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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.
<b>Respiratory protection</b>	
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

Initial boiling point and boiling range: >37.78°CFlammability: Not detedUpper/lower flammability or explosive limits: Not availFlash point: Closed ofAuto-ignition temperature: Ingredi\$\overline{C}-diazad\$\overline{C}-diazadDecomposition temperature: Stable unpH: Not applViscosity: Dynamic Kinemat KinematViscosity: 2 100 sSolubility(ies):MediaResultPartition coefficient: n-octanol/ water: Not applVapour pressure: Ingredi							
Odour: Amine-lilOdour threshold: Not availMelting point/freezing point: Not deterInitial boiling point and: >37.78°Cboiling range: Not deterFlammability: Not deterUpper/lower flammability or: Not availexplosive limits: Closed orAuto-ignition temperature: IngredipH: Not applViscosity: Stable unViscosity: DynamicKinemat: Solubility(ies)MediaResultPartition coefficient: n-octanol/: Not applVapour pressure: IngrediIngredi: Not solu							
Odour threshold: Not availMelting point/freezing point: Not deteInitial boiling point and: >37.78°Cboiling range: Not deteFlammability: Not deteUpper/lower flammability or: Not availexplosive limits: Closed ofFlash point: Closed ofAuto-ignition temperature: IngredipH: Not applViscosity: DynamicViscosity: > 100 stSolubility(ies):MediaResultPartition coefficient: n-octanol/: Not applVapour pressure: IngrediIngredi: Not solu	ilable.						
Melting point/freezing point       : Not dete         Initial boiling point and       : >37.78°C         boiling range       : Not dete         Flammability       : Not dete         Upper/lower flammability or       : Not avail         explosive limits       : Closed of         Flash point       : Closed of         Auto-ignition temperature       : Ingredi         pH       : Not appl         Viscosity       : Dynamic         Kinemat       : Stable up         Viscosity       : Dynamic         Kinemat       : Solubility(ies)         Media       Result         Fold water       Not solu         Partition coefficient: n-octanol/       : Not appl         Vapour pressure       : Ingredi	ike.						
Initial boiling point and boiling range: >37.78°CFlammability: Not deteUpper/lower flammability or explosive limits: Not availFlash point: Closed ofAuto-ignition temperature: IngrediPd: Not applViscosity: Not applViscosity: > 100 sSolubility(ies):MediaResultPartition coefficient: n-octanol/ water: Not applVapour pressure: IngrediIngredi: Not applIngredi: Not appl	ilable.						
boiling rangeFlammability: Not deteUpper/lower flammability or: Not availexplosive limits: Closed ofFlash point: Closed ofAuto-ignition temperature: IngrediJecomposition temperature: Stable unpH: Not applViscosity: DynamicViscosity: > 100 stableMediaResultvoid waterNot soluPartition coefficient: n-octanol/: Not applVapour pressure: Ingredi	lot determined.						
Upper/lower flammability or explosive limitsNot avail explosive limitsFlash point:Closed of IngrediAuto-ignition temperature:IngrediØecomposition temperature:Stable unpH:Not applViscosity:Øynamic Kinemat Kinemat KinematViscosity:>MediaResultØold waterNot soluPartition coefficient: n-octanol/ water:Not appl:Ingredi	С						
explosive limits         Flash point       : Closed of Auto-ignition temperature         Auto-ignition temperature       : Ingredi         Øf-diazad         Decomposition temperature       : Stable up         pH       : Not appl         Viscosity       : Øfynamic         Kinemat       Kinemat         Viscosity       : > 100 s         Solubility(ies)       :         Media       Result         Øold water       Not solu         Partition coefficient: n-octanol/       : Not appl         Vapour pressure       : Ingredi	ermined. The	ere are no	data ava	ailable on the i	mixture it	self.	
Auto-ignition temperature       Ingredi         Decomposition temperature       Stable up         pH       Not appl         Viscosity       Dynamic         Viscosity       Your appl         Viscosity       > 100 s         Solubility(ies)       Solubility(ies)         Media       Result         Partition coefficient: n-octanol/       Not appl         Vapour pressure       Ingredi	ilable.						
Decomposition temperature       Stable un         pH       Not appl         Viscosity       Øynamic Kinemat Kinemat Viscosity         Viscosity       > 100 s         Solubility(ies)       Solubility(ies)         Media       Result         Øold water       Not solu         Partition coefficient: n-octanol/       Not appl         Vapour pressure       Ingredi	cup: 30°C						
Decomposition temperature       :       Stable up         pH       :       Not appl         Viscosity       :       Øynamic         Viscosity       :       Øynamic         Viscosity       :       >         Solubility(ies)       :       >         Media       Result       Not solu         Partition coefficient: n-octanol/       :       Not appl         water       Vapour pressure       :       Ingredi	ient name		°C	°F	1	Nethod	
pH       : Not appl         Viscosity       : Dynamic Kinemat Kinemat         Viscosity       : > 100 s         Solubility(ies)       :         Media       Result         Pold water       Not solu         Partition coefficient: n-octanol/ : Not appl water       Vot appl         Vapour pressure       :	octanethylened	diamin	337.78	640			
Viscosity       :       Dynamic Kinemat Kinemat Kinemat Viscosity         Viscosity       :       > 100 s         Solubility(ies)       :       .         Media       Result         Øold water       Not solu         Partition coefficient: n-octanol/       :         Vapour pressure       :	inder recom	mended st	torage a	nd handling co	onditions	(see Sec	tion 7).
Kinemat         Viscosity       : > 100 s         Solubility(ies)       :         Media       Result         Øold water       Not solu         Partition coefficient: n-octanol/       : Not appl         water       Vapour pressure       :	licable. insol	luble in wa	ter.				
Viscosity       : > 100 s         Solubility(ies)       :         Media       Result         Øold water       Not solu         Partition coefficient: n-octanol/ :       Not appl         water       Vapour pressure       :	c (room tem tic (room ter tic (40°C): >	, nperature)					
Solubility(ies)       :         Media       Result         Øold water       Not solu         Partition coefficient: n-octanol/       :       Not appl         water       Vapour pressure       :       Ingredi	(ISO 6mm)						
Kold water     Not solution       Partition coefficient: n-octanol/     :       Water     Vapour pressure     :	,						
Partition coefficient: n-octanol/ : Not appl water Vapour pressure : Ingredi							
water Vapour pressure : Ingredi	uble						
Ingredi	licable.						
	. ,	Vapor	ur Press	ure at 20°C	Vapour pressure at 50°C		
<mark>2∕</mark> methylp	ient name	mm Hg	kPa	Method	mm Hg	kPa	Method
	propan-1-ol	<12.00102	<1.6	DIN EN 13016-2			
Relative density : 0.95					·		

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SECTION 9: Physica	I and chemical properties	
Explosive properties	: The product itself is not explosive, but the formation vapour or dust with air is possible.	n of an explosible mixture of
Oxidising properties	: Product does not present an oxidizing hazard.	
Particle characteristics		
Median particle size	: Not applicable.	
9.2 Other information		
No additional information.		

# **SECTION 10: Stability and reactivity**

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

# **SECTION 11: Toxicological information**

#### **11.1 Information on 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	-
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	>5 mg/l	4 hours
	mists		-	
	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	1200 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	-

**Conclusion/Summary** : There are no data a

: There are no data available on the mixture itself.

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# **SECTION 11: Toxicological information**

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
✓atty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	Eyes - Severe irritant	Rabbit	-	-	-
	Skin - Irritant	Human	-	-	-
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-

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

# Product/ingredient nameCategory<br/>exposureRoute of<br/>exposureTarget organsxylene<br/>2-methylpropan-1-olCategory 3<br/>Category 3<br/>Category 3-<br/>Category 3<br/>Category 3Respiratory tract irritation<br/>Respiratory tract irritation<br/>Narcotic effects

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

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

#### **Aspiration hazard**

Produc	ct/ingredient name	Result	
xylene ethylbenzene		ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1	
Information on likely routes of exposure	: Not available.		
Potential acute health eff	<u>ects</u>		
Inhalation	: May cause respiratory irritation.		
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SECTION 11: Toxicol	ogical information	
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	vsical, 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	cts as well as chronic effects from short and long-term exposure	
Short term exposure Potential immediate effects	: Not available.	
Potential delayed effects	: Not available.	
Long term exposure		
Potential immediate effects	: Not available.	
Potential delayed effects	: Not available.	
Potential chronic health effe	<u>cts</u>	
Not available.		
Conclusion/Summary	: Not available.	
General	<ul> <li>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.</li> </ul>	
Carcinogenicity	: No known significant effects or critical hazards.	
Mutagenicity	: No known significant effects or critical hazards.	
Reproductive toxicity	: No known significant effects or critical hazards.	
Other information	Not available.	

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

#### **11.2 Information on other hazards**

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

Not available.

#### **11.2.2 Other information**

Not available.

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# **SECTION 12: Ecological information**

#### **12.1 Toxicity**

Product/ingredient name	Result	Species	Exposure
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	EC10 1.78 mg/l	Algae	72 hours
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
2,4,6-tris(dimethylaminomethyl)phenol	Acute LC50 >100 mg/l	Daphnia	48 hours
	Acute LC50 >100 mg/l	Fish	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
₹,4,6-tris (dimethylaminomethyl)phenol	OECD 301D Ready Biodegradability - Closed Bottle Test	4 % - Not readily - 28 days	-	-
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
benzyl alcohol	-	-	Readily
2,4,6-tris(dimethylaminomethyl)phenol	-	-	Not readily
ethylbenzene	-	-	Readily

#### **12.3 Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
<b>x</b> ylene	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

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.

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## SECTION 12: Ecological information

#### **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.

Hazardous waste : Yes.

European waste catalogue (EWC)

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

#### 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 Empty conta residues ma Do not cut, v	al 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. ainers or liners may retain some product residues. Vapour from product by create a highly flammable or explosive atmosphere inside the container. weld or grind used containers unless they have been cleaned thoroughly void dispersal of spilt material and runoff and contact with soil, waterways, newers	

# **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, FLAMMABLE, CORROSIVE	PAINT, FLAMMABLE, CORROSIVE	PAINT, FLAMMABLE, CORROSIVE
14.3 Transport hazard class(es)	3 (8)	3 (8)	3 (8)
14.4 Packing group	III	III	Ш
14.5 Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
		English (GB) United Ara	b Emirates 14/16

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SECTION 14: Tra		on	
	-	-	Not applicable
Marine pollutant substances	Not applicable.	(Polyamide)	Not applicable.
·			I
Additional information ADR/RID : The	onvironmontally bozard	ouo aubatanao mark ia nat ragi	ured when transported in sizes of CE L or
ADR/RID . 111e ≤5 k	-	ous substance mark is not requ	uired when transported in sizes of ≤5 L or
Tunnel code : (D/E	-		
•		s not required when transported	d in sizes of ≤5 L or ≤5 kg.
	•		ar if required by other transportation
	lations.	2 11	
14.6 Special precautions	s for : Transport wit	hin user's premises: alwavs ti	ransport in closed containers that are
user	upright and se	cure. Ensure that persons trans	sporting the product know what to do in the
	event of an ac	cident or spillage.	
14.7 Transport in bulk	: Not applicable		
according to IMO	. Not applicable		
instruments			
SECTION 15: Reg	ulatory informa	tion	
	-		
EU Regulation (EC) No		ons/legislation specific for th	te substance or mixture
Annex XIV - List of su		uthorisation	
Annex XIV			
	ate are listed		
None of the componer			
Substances of very h			
None of the componer			
Annex XVII - Restriction	ons : Not applicable		
on the manufacture, placing on the market	F		
and use of certain	•		
dangerous substance	es,		
mixtures and articles			
Other national and inte			
Explosive precursors	: Not applicable.		
Ozone depleting subs	<u>tances (1005/2009/EU)</u>		
Not listed.			
15.2 Chemical safety	: No Chemical S	afety Assessment has been ca	rried out.
assessment			
SECTION 16: Oth	er information		
Indicates information	that has changed from	previously issued version.	
Abbreviations and	: ATE = Acute 1		
acronyms	CLP = Classifi		g Regulation [Regulation (EC) No.
	1272/2008]	ed No Effect I evel	

EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

DNEL = Derived No Effect Level

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SECTION 16: Other i	
Full text of abbreviated H	
statements	<ul> <li>H225 Highly flammable liquid and vapour.</li> <li>H226 Flammable liquid and vapour.</li> <li>H302 Harmful if swallowed.</li> <li>H304 May be fatal if swallowed and enters airways.</li> <li>H312 Harmful in contact with skin.</li> <li>H314 Causes severe skin burns and eye damage.</li> <li>H315 Causes skin irritation.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H318 Causes serious eye damage.</li> <li>H319 Causes serious eye irritation.</li> <li>H332 Harmful if inhaled.</li> <li>H335 May cause respiratory irritation.</li> <li>H336 May cause drowsiness or dizziness.</li> <li>H373 May cause damage to organs through prolonged or repeated exposure.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> </ul>
Full text of classifications [CLP/GHS]	H412Harmful to aquatic life with long lasting effects.: Acute Tox. 4ACUTE TOXICITY - Category 4Aquatic Chronic 2LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2Aquatic Chronic 3LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2Asp. Tox. 1ASPIRATION HAZARD - Category 1Eye Dam. 1SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2Flam. Liq. 2FLAMMABLE LIQUIDS - Category 2Flam. Liq. 3FLAMMABLE LIQUIDS - Category 3Skin Corr. 1BSKIN CORROSION/IRRITATION - Category 1BSkin Corr. 1CSKIN CORROSION/IRRITATION - Category 2Skin Sens. 1SKIN SENSITISATION - Category 1Skin Sens. 1ASKIN SENSITISATION - Category 1ASkin Sens. 1BSKIN SENSITISATION - Category 1BSTOT RE 2SPECIFIC TARGET ORGAN TOXICITY - REPEATEDEXPOSURE - Category 2STOT SE 3STOT SE 3SPECIFIC TARGET ORGAN TOXICITY - SINGLEEXPOSURE - Category 3
<u>History</u> Date of issue/ Date of revision	: 8 October 2024
Date of previous issue	: 22 May 2021
Prepared by	: EHS
Version Disclaimer	: 2.01

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