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

# SAFETY DATA SHEET

**United Arab Emirates** 

Version

: 1.02

Date of issue/Date of revision : 8 August 2024 SECTION 1: Identification of the substance/mixture and of the company/

undertaking	ation of the substance/mixture and of the company/
1.1 Product identifier	
Product name	: SIGMAGUARD CSF 650 HARDENER CLEAR
Product code	: 000001099226
Other means of identificati 00148999	ion
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	: <mark>⊮</mark> ardener.; 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 Acute Tox. 4, H302 Acute Tox. 3, H311 Acute Tox. 3, H331 Skin Corr. 1A, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 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

Code : 000001099226	Date of issue/Date of revision : 8 August 2024
SIGMAGUARD CSF 650 HAR	DENER CLEAR
SECTION 2: Hazards	identification
Hazard pictograms	
	: Danger
Hazard statements	<ul> <li>Flammable liquid and vapour. Harmful if swallowed. Toxic in contact with skin or if inhaled. Causes severe skin burns and eye damage. May cause an allergic skin reaction. 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. Average release to the environment.
Response	: Collect spillage. IF INHALED: Immediately call a POISON CENTER or doctor.
Storage	: Not applicable.
Disposal	<ul> <li>Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> <li>P280, P210, P273, P391, P304 + P310, P501</li> </ul>
Hazardous ingredients	: 2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine) N-(3-(trimethoxysilyl)propyl)ethylenediamine
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	ents
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 vP $\ensuremath{PBT}$
Other hazards which do not result in classification	: Prolonged or repeated contact may dry skin and cause irritation.

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

#### 3.2 Mixtures

: Mixture

Code : 00000109922	-	Da	ate of issue/Date of revisi	on : 8 August 2	024
SIGMAGUARD CSF 650 HA		tion on ir	naredients		
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
2,2'-dimethyl-4,4'- methylenebis (cyclohexylamine)	REACH #: 01-2119497829-12 EC: 229-962-1 CAS: 6864-37-5 Index: 612-110-00-1	≥50 - ≤75	Acute Tox. 4, H302 Acute Tox. 3, H311 Acute Tox. 3, H331 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Chronic 2, H411	ATE [Oral] = 500 mg/ kg ATE [Dermal] = 300 mg/kg ATE [Inhalation (dusts and mists)] = 0.5 mg/l	[1]
benzyl alcohol	REACH #: 01-2119492630-38 EC: 202-859-9 CAS: 100-51-6 Index: 603-057-00-5	≥10 - ≤20	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]
butanone	REACH #: 01-2119457290-43 EC: 201-159-0 CAS: 78-93-3 Index: 606-002-00-3	≥5.0 - ≤10	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	-	[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]
N-(3-(trimethoxysilyl)propyl) ethylenediamine	EC: 217-164-6 CAS: 1760-24-3	≥1.0 - ≤5.0	Eye Dam. 1, H318 Skin Sens. 1B, H317 STOT SE 3, H335 See Section 16 for the full text of the H statements declared above.	-	[1]

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

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

# **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.

Conforms to Regulation (EC) 2020/878	No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU)
Code : 00000109922	6 Date of issue/Date of revision : 8 August 2024
SIGMAGUARD CSF 650 HAR	DENER CLEAR
SECTION 4: First aid	l measures
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 sympton	ns and effects, both acute and delayed
Potential acute health effect	<u>ets</u>
Eye contact	: Causes serious eye damage.
Inhalation	: Toxic if inhaled.
Skin contact	: Causes severe burns. Toxic in contact with skin. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: Harmful if swallowed.
<u>Over-exposure signs/symp</u>	<u>toms</u>
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: No specific data.
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 immedi	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.
<b>SECTION 5: Firefigh</b>	ting 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 from 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 metal oxide/oxides Formaldehyde.

4/14

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

Code : 000001099226

SIGMAGUARD CSF 650 HARDENER CLEAR

Date of issue/Date of revision

: 8 August 2024

# **SECTION 5: Firefighting measures**

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 o	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

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

Code : 000001099226

Date of issue/Date of revision

: 8 August 2024

SIGMAGUARD CSF 650 HARDENER CLEAR

# **SECTION 7: Handling and storage**

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
butanone	Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016).STEL: 885 mg/m³ 15 minutes.STEL: 300 ppm 15 minutes.TWA: 590 mg/m³ 8 hours.TWA: 200 ppm 8 hours.Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006).STEL: 300 ppm 15 minutes.TWA: 590 mg/m³ 8 hours.STEL: 300 ppm 15 minutes.TWA: 590 mg/m³ 8 hours.STEL: 885 mg/m³ 15 minutes.TWA: 200 ppm 8 hours.ACGIH TLV (United States, 7/2023). Absorbed through skin.Notes: Substances for which there is a Biological Exposure Index or IndicesSTEL: 150 ppm 15 minutes.
	English (GB) United Arab Emirates 6/14

Code : 00000109922	Date of issue/Date of revision : 8 August 2024				
SIGMAGUARD CSF 650 HAR	ENER CLEAR				
	TWA: 75 ppm 8 hours.				
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.				
3.2 Exposure controls					
Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation other engineering controls to keep worker exposure to airborne contaminants below ar 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	es a la construction de				
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.				

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 Code : 000001099226

SIGMAGUARD CSF 650 HARDENER CLEAR

Date of issue/Date of revision

: 8 August 2024

**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 Appearance Physical state i Liquid. Colour				•						
Physical state       : Liquid.         Colour       : Colourless.         Odour       : Aromatic.         Odourtreshold       : Not available.         Metting point/freezing point       : May start to solidify at the following temperature: -7.1°C (19.2°F) This is based on data for the following ingredient: 2.2°-dimethyl-4.4°-methylenebis(cyclohexylamine). Weighted average: -13.77°C (7.2°F)         Initial boiling point and boiling range       : >37.78°C         Flammability       : Greatest known range: Lower: 1.3% Upper: 13% (benzyl alcohol) explosive limits         Flammability       : Greatest known range: Lower: 1.3% Upper: 13% (benzyl alcohol) explosive limits         Flammability       : Closed cup: 52°C         Auto-ignition temperature       : Stable under recommended storage and handling conditions (see Section 7). ph         pH       : Not applicable.         Viscosity       : Kinematic (40°C): >21 mm <sup>2</sup> /s         Solubility(ies)       :         Media       Result         Cold water       Not soluble         Partition coefficient: n-octanol/       : Not applicable.         Vapour pressure       : Ingredient name       Yapour Pressure at 20°C       Vapour pressure at 50°C         Vapour pressure       : 0.007 (benzyl alcohol) compared with butyl acetate       Relative density       : 0.06         Vapour density	9.1 Information on basic physica	l a	nd chemical propert	ies						
Colour       : Colourless.         Odour       : Aromatic.         Odour threshold       : Not available.         Meiting point/freezing point       : May start to solidify at the following temperature: -7.1°C (19.2°F) This is based on data for the following ingredient: 2,2°-dimethyl-4,4'-methylenebis(cyclohexylamine). Weighted average: -13.77°C (7.2°F)         Initial boiling point and boiling range       :>37.78°C         Joiling range       ::Greatest known range: Lower: 1.3% Upper: 13% (benzyl alcohol)         Upper/lower flammability or explosive limits       :Greatest known range: Lower: 1.3% Upper: 13% (benzyl alcohol)         Flash point       : Closed cup: 52°C         Auto-ignition temperature       : Stable under recommended storage and handling conditions (see Section 7).         pH       : Not applicable.         Viscosity       : Kinematic (40°C): >21 mm²/s         Solubility(ies)       :         Media       Result         cold water       Not soluble         Partition coefficient: n-octanol/       : Not applicable.         Vapour pressure       :         Ingredient name       Vapour Pressure at 20°C       Vapour pressure at 50°C         Vapour pressure       :       : 0.007 (benzyl alcohol) compared with butyl acetate         Relative density       : 0.96       : 0.96       Vapour or dust with air is pos	<u>Appearance</u>									
Odour       : Aromatic.         Odour threshold       : Not available,         Meiting point/freezing point       : May start to solidify at the following temperature: -7.1°C (19.2°F) This is based on data for the following ingredient: 2,2-dimethyl-4,4-methylenebis(cyclohexylamine). Weighted average: -13.77°C (7.2°F)         Initial boiling point and boiling range       : >37.78°C         Flammability       : Not available.         Upper/lower flammability or explosive limits       : Greatest known range: Lower: 1.3% Upper: 13% (benzyl alcohol) explosive limits         Flash point       : Closed cup: 52°C         Auto-ignition temperature       : Closed cup: 52°C         Auto-ignition temperature       : Stable under recommended storage and handling conditions (see Section 7).         pH       : Not applicable.         Viscosity       : Kinematic (40°C): >21 mm²/s         Solubility(ies)       :         Media       Result         cold water       Not soluble         Partition coefficient: n-octanol//       : Not applicable.         Vapour pressure       :         Vapour pressure       : 0.007 (benzyl alcohol) compared with butyl acetate         Relative density       : 0.98         Vapour or dust with air is possible.       : 1)         Oxid ising properties       : The product itself is not explosive, but the formation	Physical state	1	Liquid.							
Odour threshold       : Not available.         Melting point/freezing point       : May start to solidify at the following temperature: -7.1°C (19.2°F) This is based on data for the following ingredient 2,2°-dimethyl-4,4°-methylenebis(cyclohexylamine). Weighted average: -13.77°C (7.2°F)         Initial boiling point and boiling range       : >37.78°C         Flammability       : Not available.         Upperflower flammability or explosive limits       : Greatest known range: Lower: 1.3% Upper: 13% (benzyl alcohol)         Flash point       : Closed cup: 52°C         Auto-ignition temperature       : May applicable.         Uscaled average:       : Stable under recommended storage and handling conditions (see Section 7).         pH       : Not applicable.         Viscosity       : Kinematic (40°C): >21 mm²/s         Solubility(ies)       :         Vapour pressure       : Not applicable.         Vapour pressure       : Not applicable.         Vapour pressure       : Not applicable.         Vapour pressure       : Ingredient name       Vapour Pressure at 20°C       Vapour pressure at 50°C         Vapour pressure       : Not applicable.       : Highest known value: 3.7 (Air = 1) (benzyl alcohol). Weighted average: 3.35 (Air = 1)         Vapour density       : 0.96       : 0.96       Vapour or dust with air is possible.         Vapour density	Colour	1	Colourless.							
Metting point/freezing point       : May start to solidify at the following temperature: -7.1°C (19.2°F) This is based on data for the following ingredient: 2.2'-dimethyl-4.4'-methylenebis(cyclohexylamine). Weighted average: -13.7°C (7.2°F)         Initial boiling point and boiling range       : >37.78°C         Flammability       : Not available.         Upper/lower flammability or explosive limits       : Greatest known range: Lower: 1.3% Upper: 13% (benzyl alcohol)         Plantability       : Oldsed cup: 52°C         Auto-ignition temperature       : Closed cup: 52°C         Decomposition temperature       : Stable under recommended storage and handling conditions (see Section 7).         PH       : Not applicable.         Viscosity       : Kinematic (40°C): >21 mm²/s         Solubility(ies)       :         Media       Result         Codd water       Not soluble         Partition coefficient: n-octanol/       : Not applicable.         Vapour pressure       :       Ingredient name         Vapour pressure <td>Odour</td> <td>:</td> <td colspan="7">Aromatic.</td>	Odour	:	Aromatic.							
data for the following ingredient: 2.2'-dimethyl-4.4'-methylenebis(cyclohexylamine). Weighted average: -13.77°C (7.2°F)         Initial boiling range       : >37.78°C         Flammability       : Not available.         Upper/lower flammability or explosive limits       : Greatest known range: Lower: 1.3% Upper: 13% (benzyl alcohol)         Flash point       : Closed cup: 52°C         Auto-ignition temperature       : Ingredient name       °C       °F         0.2.2'-dimethyl-4.4'-methylenebis       275       527         Decomposition temperature       : Stable under recommended storage and handling conditions (see Section 7).         pH       : Not applicable.         Viscosity       : Kinematic (40°C): >21 mm²/s         Solubility(les)       :         Media       Result         cold water       Not soluble         Partition coefficient: n-octanol/       : Not applicable.         Wapour pressure       :         ingredient name       Yapour Pressure at 20°C       Vapour pressure at 50°C         Evaporation rate       : 0.007 (benzyl alcohol) compared with bulyl acetate         Relative density       : 0.96         Vapour density       : 0.96         Vapour density       : 10         Explosive properties       : The product itself is not explosive, but the forma	Odour threshold	1	lot available.							
boiling range       Flammability       : Not available.         Upper/lower flammability or explosive limits       : Greatest known range: Lower: 1.3% Upper: 13% (benzyl alcohol)         Flash point       : Closed cup: 52°C         Auto-ignition temperature       : Ingredient name       °C       °F       Method         2.2-dimethyl-4.4-methylenebis       276       527	Melting point/freezing point	:	data for the following	ingredien	t: 2,2'-di					
Upper/lower flammability or explosive limits       : Greatest known range: Lower: 1.3% Upper: 13% (benzyl alcohol)         Flash point       : Closed cup: 52°C         Auto-ignition temperature       : Ingredient name       °C       °F         2.2-dimethyl-4.4-methylenebis       275       527         Decomposition temperature       : Stable under recommended storage and handling conditions (see Section 7).         pH       : Not applicable.         Viscosity       : Kinematic (40°C): >21 mm²/s         Solubility(ies)       :         Media       Result         cold water       Not soluble         Partition coefficient: n-octanol/       : Not applicable.         vapour pressure       :         Ingredient name       Vapour Pressure at 20°C       Vapour pressure at 50°C         mm Hg       kPa       Method       Hg         butanone       78.7564       10.5       1         Evaporation rate       : 0.007 (benzyl alcohol) compared with butyl acetate       Relative density       0.96         Vapour density       : Highest known value: 3.7 (Air = 1) (benzyl alcohol). Weighted average: 3.35 (Air = 1)       1)         Explosive properties       : The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.         Oxid	•••	:	>37.78°C							
explosive limits       Flash point       : Closed cup: 52°C         Auto-ignition temperature       : Ingredient name       °C       °F       Method         2.2-dimethyl-4.4-methylenebis       275       527	Flammability	:	Not available.	Not available.						
Auto-ignition temperature       :       Ingredient name       °C       °F       Method         2.2'-dimethyl-4.4'-methylenebis       275       527		:	Greatest known rang	e: Lower:	1.3% U	lpper: 13%	(benzyl a	lcohol)		
Decomposition temperature (cyclohexylamine)       275       527         Decomposition temperature pH       : Stable under recommended storage and handling conditions (see Section 7).         pH       : Not applicable.         Viscosity       : Kinematic (40°C): >21 mm²/s         Solubility(ies)       :         Media       Result         cold water       Not soluble         Partition coefficient: n-octanol/ water       Not applicable.         Vapour pressure       :         Ingredient name       Vapour Pressure at 20°C       Vapour pressure at 50°C         water       Vapour pressure at 20°C       Vapour pressure at 50°C         Vapour pressure       :       Ingredient name       Method         butanone       78.7564       10.5       u       u         Evaporation rate       :       0.007 (benzyl alcohol) compared with butyl acetate         Relative density       :       0.96       Vapour density       :       1)         Explosive properties       :       The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.       Oxidising properties       :         Oxidising properties       :       Product does not present an oxidizing hazard.         Particle characteristics       Median	Flash point	:	Closed cup: 52°C							
2.2-dimethyl-4.4-methylenebis (cyclohexylamine)       275       527         Decomposition temperature pH       : Stable under recommended storage and handling conditions (see Section 7).         PH       : Not applicable.         Viscosity       : Kinematic (40°C): >21 mm²/s         Solubility(ies)       :         Media       Result         cold water       Not soluble         Partition coefficient: n-octanol/ water       Not applicable.         Vapour pressure       :         Ingredient name       Vapour Pressure at 20°C       Vapour pressure at 50°C         water       Vapour pressure       :         Vapour pressure       :       Ingredient name         butanone       78.7564       10.5       u         Evaporation rate       :       0.007 (benzyl alcohol) compared with butyl acetate         Relative density       :       0.96         Vapour density       :       Highest known value: 3.7 (Air = 1) (benzyl alcohol). Weighted average: 3.35 (Air = 1)         Explosive properties       :       The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.         Oxidising properties       :       Product does not present an oxidizing hazard.         Particle characteristics       Median particle size <td>Auto-ignition temperature</td> <td>:</td> <td>Ingredient name</td> <td></td> <td>°C</td> <td>°F</td> <td></td> <td colspan="3">Method</td>	Auto-ignition temperature	:	Ingredient name		°C	°F		Method		
pH       : Not applicable.         Viscosity       : Kinematic (40°C): >21 mm²/s         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       Wethod         butanone       78.7564       10.5       Immedia         Evaporation rate       :       0.007 (benzyl alcohol) compared with butyl acetate         Relative density       :       0.96         Vapour density       :       1)       (benzyl alcohol). Weighted average: 3.35 (Air : 1)         Explosive properties       :       :       1)         Explosive properties       :       :         Oxidising properties       :       Product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.         Oxidising properties       :       Product does not present an oxidizing hazard.         Particle characteristics       Median particle size       :         Median particle size       :       Not applicable.			2,2'-dimethyl-4,4'-methyle	enebis	275	527				
pH       : Not applicable.         Viscosity       : Kinematic (40°C): >21 mm²/s         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         water       Vapour pressure       :       Ingredient name       Method       mm Hg       kPa       Method         butanone       78.7564       10.5	Decomposition temperature	÷	Stable under recomm	nended st	orade ar	nd handling	condition	ns (see Sec	tion 7).	
Viscosity       :       Kinematic (40°C): >21 mm²/s         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         water       Vapour pressure       :         Vapour pressure       :       Ingredient name       Vapour Pressure at 20°C       Vapour pressure at 50°C         water       Vapour pressure       :       :       Not applicable.         Vapour pressure       :       :       :       Method       mm Hg       kPa       Method         butanone       78.7564       10.5		÷			51 S. 9 S S.			(		
Solubility(ies)       :         Media       Result         cold water       Not soluble         Partition coefficient: n-octanol/       :       Not applicable.         vater       Vapour pressure at 20°C       Vapour pressure at 50°C         Ingredient name       Vapour Pressure at 20°C       Vapour pressure at 50°C         ingredient name       Ingredient name       Imm Hg       KPa         butanone       78.7564       10.5       Imm       Imm         Evaporation rate       :       0.007 (benzyl alcohol) compared with butyl acetate         Relative density       :       0.96       Wapour density       :       10         Explosive properties       :       The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.       Oxidising properties       :       Product does not present an oxidizing hazard.         Particle characteristics       Median particle size       :       Not applicable.		÷	••	1 mm²/s						
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         Water       Vapour pressure       :       Ingredient name       Vapour Pressure at 20°C       Vapour pressure at 50°C         Water       Vapour pressure       :       Ingredient name       Vapour Pressure at 20°C       Vapour pressure at 50°C         Water       Vapour pressure       :       Ingredient name       Vapour Pressure at 20°C       Vapour pressure at 50°C         Ingredient name       Ingredient name       Vapour Pressure at 20°C       Vapour pressure at 50°C       Method         butanone       78.7564       10.5       Ingredient name       Method       Method         butanone       78.7564       10.5       Ingredient name       Not solution       Solution         Evaporation rate       :       0.007 (benzyl alcohol) compared with butyl acetate       Solution       Solution       Solution         Vapour density       :       0.96       Yapour density       Solution is solution       Solution       Solution       <	-	÷	( )							
Partition coefficient: n-octanol/ :       Not applicable.         Vapour pressure       :       Ingredient name       Vapour Pressure at 20°C       Vapour pressure at 50°C         Ingredient name       Relative       Relative density       0.007 (benzyl alcohol) compared with butyl acetate         Evaporation rate       :       0.007 (benzyl alcohol) compared with butyl acetate         Relative density       :       0.96         Vapour density       :       Highest known value: 3.7 (Air = 1) (benzyl alcohol). Weighted average: 3.35 (Air = 1)         Explosive properties       :       The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.         Oxidising properties       :       Product does not present an oxidizing hazard.         Particle characteristics       Median particle size       :       Not applicable.         9.2 Other information       :       Not applicable.       :	Media		Result							
water       Vapour pressure       Image: Ima	cold water		Not soluble							
Ingredient name       Trepositive of the product of the		:	Not applicable.							
Ingredient name       mm Hg       kPa       Method       mm       Hg       Method         butanone       78.7564       10.5       10.5       10.5       10.5       10.5         Evaporation rate Relative density       :       0.007 (benzyl alcohol) compared with butyl acetate       :       0.96         Vapour density       :       Highest known value: 3.7 (Air = 1) (benzyl alcohol). Weighted average: 3.35 (Air = 1)         Explosive properties       :       The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.         Oxidising properties       :       Product does not present an oxidizing hazard.         Particle characteristics       :       Not applicable.         9.2 Other information       :       Not applicable.	Vapour pressure	:			r Press	ure at 20°C	C Va	pour pres	sure at 50°C	
Evaporation rate       image: constraint of the state         Relative density       :       0.007 (benzyl alcohol) compared with butyl acetate         Relative density       :       0.96         Vapour density       :       Highest known value: 3.7 (Air = 1) (benzyl alcohol). Weighted average: 3.35 (Air = 1)         Explosive properties       :       The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.         Oxidising properties       :       Product does not present an oxidizing hazard.         Particle characteristics       :       Not applicable.         9.2 Other information       :       Not applicable.			Ingredient name			1	mm	· ·	-	
Relative density       : 0.96         Vapour density       : Highest known value: 3.7 (Air = 1) (benzyl alcohol). Weighted average: 3.35 (Air = 1)         Explosive properties       : The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.         Oxidising properties       : Product does not present an oxidizing hazard.         Particle characteristics       : Not applicable.         9.2 Other information       : Not applicable.			butanone	78.7564	10.5					
Relative density       : 0.96         Vapour density       : Highest known value: 3.7 (Air = 1) (benzyl alcohol). Weighted average: 3.35 (Air = 1)         Explosive properties       : The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.         Oxidising properties       : Product does not present an oxidizing hazard.         Particle characteristics       : Not applicable.         0.2 Other information       : Not applicable.						ļ., , , ,				
Vapour density: Highest known value: 3.7 (Air = 1) (benzyl alcohol). Weighted average: 3.35 (Air = 1)Explosive properties: The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.Oxidising properties: Product does not present an oxidizing hazard.Particle characteristicsMedian particle sizeNot applicable.		÷		l) compar	ed with t	outyl acetat	е			
1)Explosive properties0xidising propertiesParticle characteristicsMedian particle size9.2 Other information		÷			- 1) (h-			htad avana		
Explosive properties: The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.Oxidising properties: Product does not present an oxidizing hazard.Particle characteristics: Not applicable.9.2 Other information: Not applicable.	vapour density	÷		: 3.7 (All	= 1) (be	enzyi alcono	bi). vveigi	nted avera	je: 3.35 (Alf -	
Particle characteristics         Median particle size       : Not applicable.         9.2 Other information	Explosive properties	:	The product itself is r			the formation	on of an e	explosible n	nixture of	
Median particle size       : Not applicable.         9.2 Other information	Oxidising properties	:	Product does not pre	sent an o	kidizing	hazard.				
9.2 Other information	Particle characteristics				-					
	Median particle size	:	Not applicable.							
	9.2 Other information									

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

Code : 000001099226

Date of issue/Date of revision

: 8 August 2024

- SIGMAGUARD CSF 650 HARDENER CLEAR SECTION 10: Stability and reactivity : No specific test data related to reactivity available for this product or its ingredients. **10.1 Reactivity 10.2 Chemical stability** : The product is stable. : Under normal conditions of storage and use, hazardous reactions will not occur. 10.3 Possibility of hazardous reactions 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 : Depending on conditions, decomposition products may include the following materials:
  - decomposition products
- carbon oxides nitrogen oxides Formaldehyde. metal oxide/oxides

# SECTION 11: Toxicological information

# 11.1 Information on toxicological effects

## **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
2,2'-dimethyl-4,4'-methylenebis	LC50 Inhalation Dusts and	Rat	420 mg/m <sup>3</sup>	4 hours
(cyclohexylamine)	mists		-	
	LD50 Dermal	Rabbit	>0.2 g/kg	-
	LD50 Oral	Rat	>0.32 g/kg	-
benzyl alcohol	LC50 Inhalation Dusts and	Rat	>4178 mg/m <sup>3</sup>	4 hours
-	mists		_	
	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1.23 g/kg	-
butanone	LD50 Dermal	Rabbit	6480 mg/kg	-
	LD50 Oral	Rat	2737 mg/kg	-
2,4,6-tris(dimethylaminomethyl)phenol	LD50 Dermal	Rat	1280 mg/kg	-
	LD50 Oral	Rat	1200 mg/kg	-
N-(3-(trimethoxysilyl)propyl) ethylenediamine	LD50 Dermal	Rabbit	>2000 mg/kg	-
-	LD50 Oral	Rat	2413 mg/kg	-

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

Irritation/Corrosion	
<b>Conclusion/Summary</b>	
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	
<b>Conclusion/Summary</b>	
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.
<b>Carcinogenicity</b>	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.

	6	Dete of to our "	Data of months in the	
Code : 00000109922 SIGMAGUARD CSF 650 HAF	Date of issue/	Date of revision	: 8 August 2024	
SECTION 11: Toxico		n		
Reproductive toxicity	nogical informatio	/11		
Conclusion/Summary	: There are no data ava	ailable on the mixtur	e itself	
<u>Teratogenicity</u>				
Conclusion/Summary	: There are no data ava	ailable on the mixtur	e itself	
-			1	Townshows
Producting	predient name	Category	Route of exposure	Target organs
Information on likely routes of exposure	: Not available.			
Potential acute health effect	<u>ets</u>			
Inhalation	: Toxic if inhaled.			
Ingestion	: Harmful if swallowed.			
Skin contact	: Causes severe burns, allergic skin reaction.	. Toxic in contact w	ith skin. Defatting to	the skin. May cause an
Eye contact	: Causes serious eye d	amage.		
Symptoms related to the p	hysical, chemical and tox	cicological charact	<u>eristics</u>	
Inhalation	: No specific data.			
Ingestion	: Adverse symptoms m stomach pains	ay include the follov	ving:	
Skin contact	: Adverse symptoms m pain or irritation redness dryness cracking blistering may occur	ay include the follov	ving:	
Eye contact	: Adverse symptoms m pain watering redness	ay include the follov	ving:	
Delayed and immediate eff	ects as well as chronic e	ffects from short a	nd long-term expos	<u>ure</u>
Short term exposure				
Potential immediate effects	: Not available.			
Potential delayed effects	Not available.			
Long term exposure Potential immediate effects	: Not available.			
Potential delayed effects	• Not available			
Potential chronic health ef				
Not available.	<u> «</u>			
Conclusion/Summary	: Not available.			
General	: Prolonged or repeated dermatitis. Once sense exposed to very low let	sitized, a severe alle		ritation, cracking and/or cur when subsequently
Carcinogenicity	: No known significant	effects or critical haz	zards.	
Mutagenicity	: No known significant	effects or critical haz	zards.	
Reproductive toxicity	: No known significant	effects or critical haz	zards.	
Other information	: Not available.			

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

Code : 000001099226

Date of issue/Date of revision

: 8 August 2024

SIGMAGUARD CSF 650 HARDENER CLEAR

# **SECTION 11: Toxicological information**

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. Trimethoxysilanes are capable of forming methanol if hydrolyzed or ingested. If swallowed, methanol may be harmful or fatal or cause blindness. Contains a substance that may emit formaldehyde if stored beyond its shelf life and/or during cure at curing temperatures greater than 60C/140F. Avoid contact with skin and clothing. Exposure to amine vapor has been reported to cause transient corneal edema described as blue haze, halo effect, foggy or blurred vision for several hours. This condition is typically temporary and does not cause permanent visual effects. When the proper eye protection specified in Section 8 is worn, exposure is significantly reduced and the condition has not been observed.

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

#### 11.2.1 Endocrine disrupting properties

Not available.

#### 11.2.2 Other information

Not available.

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
2,4,6-tris(dimethylaminomethyl)phenol	Acute LC50 >100 mg/l Acute LC50 >100 mg/l	Daphnia Fish	48 hours 96 hours
N-(3-(trimethoxysilyl)propyl)ethylenediamine	EC50 597 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
2,4,6-tris (dimethylaminomethyl)phenol		4 % - Not readily - 28 days	-	-

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

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
benzyl alcohol 2,4,6-tris(dimethylaminomethyl)phenol	-	-	Readily Not readily

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine)	1.8	-	Low
benzyl alcohol	0.87	-	Low
butanone	0.3	-	Low
2,4,6-tris(dimethylaminomethyl)phenol	0.219	-	Low

#### 12.4 Mobility in soil

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

#### 12.5 Results of PBT and vPvB assessment

English (GB) United Arab Emirates

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

Code : 000001099226

SIGMAGUARD CSF 650 HARDENER CLEAR

Date of issue/Date of revision : 8 A

: 8 August 2024

**SECTION 12: Ecological information** 

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

#### 12.6 Endocrine disrupting properties

Not available.

#### 12.7 Other adverse effects

No known significant effects or critical hazards.

#### 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
	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	: The classification of the product may meet the criteria for a hazardous waste.

#### European waste catalogue (EWC)

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

#### Packaging

Methods of disposal

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

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

# **SECTION 14: Transport information**

	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN number or ID number	UN2922	UN2922	UN2922
14.2 UN proper shipping name	CORROSIVE LIQUID, TOXIC, N.O.S. (2,2'-dimethyl-4,4'- methylenebis (cyclohexylamine), 2,4,6-tris (dimethylaminomethyl)phenol)	CORROSIVE LIQUID, TOXIC, N.O.S.	Corrosive liquid, toxic, n.o.s.
	 Er	nglish (GB) United Arab Er	nirates 12/14

Code : 000001099226 SIGMAGUARD CSF 650 HARDENER CLEAR		Date of issue/Date of	Date of issue/Date of revision : 8 August 2024		
SECTION 14: Transport information					
14.3 Transport hazard class(es)	8 (6.1)	8 (6.1)	8 (6.1)		
14.4 Packing group	П	П	П		
14.5 Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.		
Marine pollutant substances	Not applicable.	(2,2'-dimethyl-4,4'- methylenebis (cyclohexylamine))	Not applicable.		
Sector S	ne environmentally hazardo 5 kg. 5) ne marine pollutant mark is	us substance mark is not required not required when transported in s us substance mark may appear if	-		

14.7 Transport in bulk according to IMO	: Not applicable.
instruments	

# **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH) Annex XIV - List of substances subject to authorisation **Annex XIV** None of the components are listed. Substances of very high concern None of the components are listed. Annex XVII - Restrictions : Not applicable. on the manufacture, 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. : No Chemical Safety Assessment has been carried out. 15.2 Chemical safety assessment

event of an accident or spillage.

Code : 00000109922 SIGMAGUARD CSF 650 HAP		Date of issue/Date of revision	: 8 August 2024
SECTION 16: Other			
		ly include version	
Indicates information that Abbreviations and			
acronyms	<ul> <li>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</li> </ul>		
Full text of abbreviated H statements	<ul> <li>H225 Highly flamm H226 Flammable li H302 Harmful if sw H311 Toxic in cont H312 Harmful in co H314 Causes seve H317 May cause a H318 Causes serio H319 Causes serio H319 Causes serio H331 Toxic if inhal H332 Harmful if inh H335 May cause d H316 May cause d H316 May cause d H411 Toxic to aqua</li> </ul>	hable liquid and vapour. iquid and vapour. vallowed. act with skin. ontact with skin. ere skin burns and eye damage. n allergic skin reaction. ous eye damage. ous eye irritation. ed.	king.
Full text of classifications [CLP/GHS]	: Acute Tox. 3 Acute Tox. 4 Aquatic Chronic 2 Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Skin Corr. 1A Skin Corr. 1C Skin Sens. 1 Skin Sens. 1B STOT SE 3	ACUTE TOXICITY - Category 3 ACUTE TOXICITY - Category 4 LONG-TERM (CHRONIC) AQUAT SERIOUS EYE DAMAGE/EYE IRF SERIOUS EYE DAMAGE/EYE IRF FLAMMABLE LIQUIDS - Category FLAMMABLE LIQUIDS - Category SKIN CORROSION/IRRITATION - SKIN CORROSION/IRRITATION - SKIN SENSITISATION - Category SKIN SENSITISATION - Category SPECIFIC TARGET ORGAN TOX EXPOSURE - Category 3	RITATION - Category 1 RITATION - Category 2 2 3 • Category 1A • Category 1C 1 1B
<u>History</u>		<u> </u>	
Date of issue/ Date of revision	: 8 August 2024		
Date of previous issue	: 31 July 2024		
Prepared by	: EHS		
Version	: 1.02		

#### **Disclaimer**

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by us, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.