### **SAFETY DATA SHEET**

Date of issue/Date of revision

: 27 August 2024

Version

: 1.01



pPG

### SECTION 1: Identification of the substance/mixture and of the company/ undertaking 1.1 Product identifier Product name : SIGMAGUARD CSF 650 HARDENER GREEN

Product name	: SIGMAGUARD CSF 650 HARDENER GREEN
Product code	: 000001011160
Other means of identification	on
00140724; 00141885; 00151	142; 00191154; 00204681; 00314992
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	: 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
PPG Sénégal	
BP1107, Dakar Senegal	
Tel: 00221 33 832 3475	
Fax: 00221 33 832 0973	
e-mail address of person responsible for this SDS	: PS.ACEMEA@ppg.com
1.4 Emergency telephone	: ORFILA (INRS) 0033 (0)1 45 42 59 59 / 00221 33 832 3475

### **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, H311 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

number

Code : 000001011160 SIGMAGUARD CSF 650 HAR	5
SECTION 2: Hazards	
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. Avoir 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	nents
Containers to be fitted with child-resistant fastenings	: Not applicable.
Tactile warning of danger	: Not applicable.
2.3 Other hazards	
Product meets the criteria for PBT or vPvB	: This mixture does not contain any substances that are assessed to be a PBT or a vPv
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 : 0000010111 SIGMAGUARD CSF 650 HA		Da	ate of issue/Date of revisi	on : 27 August 2	2024
SECTION 3: Compo		tion on ii	ngredients		
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 - ≤18	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	-	[1]

 statements declared above.

 There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent

See Section 16 for the full text of the H

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**

1.1

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asures
: 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.
: 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.
: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
: If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.

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SECTION 4: First ai	d measures		
Protection of first-aiders	suspected that fumes are self-contained breathing	nvolving any personal risk or without still present, the rescuer should wea apparatus. It may be dangerous to th uscitation. Wash contaminated clothi ar gloves.	r an appropriate mask or le person providing aid to
	ns and effects, both acute a	nd delayed	
Potential acute health effe			
Eye contact Inhalation	<ul> <li>Causes serious eye dam</li> <li>Toxic if inhaled.</li> </ul>	age.	
Skin contact		oxic in contact with skin. Defatting to	the skin. May cause an
Ingestion	: Harmful if swallowed.		
Over-exposure signs/sym	<u>otoms</u>		
Eye contact	: Adverse symptoms may pain watering redness	include the following:	
Inhalation	: No specific data.		
Skin contact	: Adverse symptoms may pain or irritation redness dryness cracking blistering may occur	include the following:	
Ingestion	: Adverse symptoms may stomach pains	include the following:	
4.3 Indication of any immed	iate medical attention and s	pecial treatment needed	
Notes to physician		ecomposition products in a fire, symp v need to be kept under medical surve	
Specific treatments	: No specific treatment.		
SECTION 5: Firefight	iting measures		
5.1 Extinguishing media			
Suitable extinguishing	: Use dry chemical, CO <sub>2</sub> , v	vater spray (fog) or foam.	

Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) o
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.

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

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**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	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 spill product.
6.4 Reference to other sections	<ul> <li>See Section 1 for emergency contact information.</li> <li>See Section 8 for information on appropriate personal protective equipment.</li> <li>See Section 13 for additional waste treatment information.</li> </ul>

### **SECTION 7: Handling and storage**

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

### 7.1 Precautions for safe handling

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

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### **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	E	xposure limit values	
benzyl alcohol	IPEL (-).		
	TWA: 5 ppm		
hutanana	STEL: 10 ppm	2)	
butanone	EU OEL (Europe, 1/2022 STEL: 900 mg/m <sup>3</sup> 15 m	•	
	STEL: 300 ppm 15 min		
	TWA: 600 mg/m <sup>3</sup> 8 hou		
	TWA: 200 ppm 8 hours		
procedures Standard by inhalat strategy) application biological	e should be made to monitoring si EN 689 (Workplace atmospheres ion to chemical agents for compa European Standard EN 14042 (W n and use of procedures for the a agents) European Standard EN ents for the performance of proced	Guidance for the assessment rison with limit values and mean vorkplace atmospheres - Guide ssessment of exposure to chean 482 (Workplace atmospheres - Guide 482 (Workplace atmospheres - Guide AB2 (Workplace atmospheres - Guide)	nt of exposure asurement e for the mical and - General
	English (GB)	Senegal	6/14

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	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 of other engineering controls to keep worker exposure to airborne contaminants below an 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 meas	<u>ures</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection <u>Skin protection</u>	: Chemical splash goggles and face shield.
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
Gloves	: nitrile neoprene
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	:
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### **SECTION 9: Physical and chemical properties**

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

### 9.1 Information on basic physical and chemical properties Appearance Physical state : Liquid. Colour : Øreen. Odour : Aromatic. [Strong]

English (GB)

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

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### **SECTION 9: Physical and chemical properties**

: Not available.
<ul> <li>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).</li> <li>Weighted average: -13.74°C (7.3°F)</li> </ul>
: >37.78°C
: Not available.
: Greatest known range: Lower: 1.3% Upper: 13% (benzyl alcohol)
: Closed cup: 52°C
: 426°C (798.8°F)
: Stable under recommended storage and handling conditions (see Section 7).
: Not applicable.
: Kinematic (40°C): <14 mm²/s
:
Result
Not soluble

### Partition coefficient: n-octanol/ : Not applicable. water

Vapour pressure	:	to an all so the second	Vapou	ur Press	sure at 20°C	Vapo	our press	sure at 50°C
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
		butanone	78.7564	10.5				
Evaporation rate	: (	).007 (benzyl alcoho	ol) compar	ed with	butyl acetate		ł	
Relative density	: (	0.96						
Vapour density		Highest known value I)	e: 3.7 (Air	= 1) (b	enzyl alcohol).	Weighte	ed averag	je: 3.32 (Air =
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	: F	Product does not pre	esent an o	xidizing	hazard.			
Particle characteristics								
Median particle size	: 1	Not applicable.						

### 9.2 Other information

No additional information.

# SECTION 10: Stability and reactivity10.1 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<br/>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.<br/>Refer to protective measures listed in sections 7 and 8.

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SECTION 10: Stabilit	y and reactivity			
10.5 Incompatible materials	: Keep away from the for oxidising agents, stron	Ilowing materials to prevent strong exoth g alkalis, strong acids.	nermic reactions:	
10.6 Hazardous decomposition products		ns, decomposition products may include n oxides Formaldehyde. metal oxide/o>		

### **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

### Acute toxicity

Product/ingredient	name	Result	Species	Dose	Exposure
2,2'-dimethyl-4,4'-methylene	ebis	LC50 Inhalation Dusts and	Rat	420 mg/m <sup>3</sup>	4 hours
(cyclohexylamine)		mists			
		LD50 Dermal	Rabbit	>0.2 g/kg	-
hanzyl alaahal		LD50 Oral	Rat	>0.32 g/kg	-
benzyl alcohol		LC50 Inhalation Dusts and mists	Rat	>4178 mg/m <sup>3</sup>	4 hours
		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(dimethylaminome	thyl)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	-
Conclusion/Summary	: There are	no data available on the mixtu	re itself.	4	<b> </b>
Irritation/Corrosion					
Conclusion/Summary					
Skin	: There are r	o data available on the mixtur	e itself.		
Eyes	: There are r	o data available on the mixtur	e itself.		
Respiratory	: There are r	o data available on the mixtur	e itself.		
Sensitisation					
Conclusion/Summary					
Skin	: There are	no data available on the mixtu	re itself.		
Respiratory	: There are	no data available on the mixtu	re itself.		
Mutagenicity					
Conclusion/Summary	: There are	no data available on the mixtu	re itself.		
<b>Carcinogenicity</b>					
Conclusion/Summary	: There are	no data available on the mixtu	re itself.		
Reproductive toxicity					
Conclusion/Summary	: There are	no data available on the mixtu	re itself.		
Teratogenicity					
Conclusion/Summary	: There are	no data available on the mixtu	re itself.		
Product/in	gredient name	Category	Route of exposur	• •	et organs
Information on likely routes of exposure	: Not availat	ble.	1		
Potential acute health effe	cts				
Inhalation	: Toxic if inh	aled			

English (GB)

ode : 000001011160	)	Date of issue/Date of revision : 27 August 2024
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SECTION 11: Toxicol	lo	gical information
Ingestion	1	Harmful if swallowed.
Skin contact	1	Causes severe burns. Toxic in contact with skin. Defatting to the skin. May cause an allergic skin reaction.
Eye contact	1	Causes serious eye damage.
Symptoms related to the ph	<u>ysi</u>	cal, chemical and toxicological characteristics
Inhalation	:	No specific data.
Ingestion	1	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
	cts	as well as chronic effects from short and long-term exposure
<u>Short term exposure</u>		
Potential immediate effects	1	Not available.
Potential delayed effects	:	Not available.
Long term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health effe	ecte	
Conclusion/Summary		Not available.
General	- 1	Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/o dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	:	No known significant effects or critical hazards.
Mutagenicity	:	No known significant effects or critical hazards.
Reproductive toxicity	:	No known significant effects or critical hazards.
Other information		Not available.

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.

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

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### **SECTION 11: Toxicological information**

### 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	OECD 301D Ready Biodegradability - Closed Bottle Test	4 % - Not readily - 28 day	/s -	-
Conclusion/Summary	: There are no data	a 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	: Not available.
coefficient (Koc)	
Mobility	: Not available.

### 12.5 Results of PBT and vPvB assessment

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

### 12.6 Endocrine disrupting properties

Not available.

### 12.7 Other adverse effects

No known significant effects or critical hazards.

English (GB)

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

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### **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

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

### Packaging

Methods of disposal

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

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

### **SECTION 14: Transport information**

	ADR/RID	IMDG	IATA
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.
14.3 Transport hazard class(es)	8 (6.1)	8 (6.1)	8 (6.1)
14.4 Packing group	11	II	Π
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.

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ADR/RID	≤5 kg.	ubstance mark is not required when transported in	sizes of ≤5 L or
Tunnel code	: (E)		
IMDG		required when transported in sizes of ≤5 L or ≤5 kg	
ΙΑΤΑ	: The environmentally hazardous su regulations.	ubstance mark may appear if required by other trar	nsportation
14.6 Special pr user		<b>ser's premises:</b> always transport in closed contain Ensure that persons transporting the product know or spillage.	
14.7 Transport according to IN instruments			
<b>SECTION</b> 1	15: Regulatory information	1	
15.1 Safety, he	alth and environmental regulations/l	egislation specific for the substance or mixture	
EU Regulation	n (EC) No. 1907/2006 (REACH)		
Annex XIV -	List of substances subject to author	<u>isation</u>	
<u>Annex XIV</u>			
None of the o	components are listed.		
Substances	of very high concern		
	components are listed.		
None of the o			
Annex XVII -	<b>Restrictions</b> : Not applicable.		
Annex XVII - on the manu	facture,		
Annex XVII - on the manu placing on th	facture, he market		
Annex XVII - on the manu	facture, ne market ertain		
Annex XVII - on the manu placing on th and use of c	facture, ne market ertain substances,		
Annex XVII - on the manu placing on th and use of c dangerous s mixtures and	facture, ne market ertain substances,		
Annex XVII - on the manu placing on th and use of c dangerous s mixtures and	facture, ne market ertain ubstances, d articles I and international regulations.		
Annex XVII - on the manu placing on th and use of c dangerous s mixtures and <u>Other national</u> Explosive pres	facture, ne market ertain ubstances, d articles I and international regulations.		

### **SECTION 16: Other information**

Indicates information	that has changed from previously issued version.
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>

SIGMAGUARD CSF 650 HARD SECTION 16: Other in Full text of abbreviated H statements	Information: H225Highly flammaH226Flammable liqH302Harmful if swaH311Toxic in contacH312Harmful in contacH314Causes severeH317May cause anH318Causes seriou	ct with skin. Itact with skin. e skin burns and eye damage. allergic skin reaction. s eye damage. s eye irritation. d.	
Full text of abbreviated H	: H225 Highly flamma H226 Flammable liq H302 Harmful if swa H311 Toxic in contac H312 Harmful in con H314 Causes severe H317 May cause an H318 Causes seriou H319 Causes seriou H331 Toxic if inhaled	uid and vapour. llowed. ct with skin. tact with skin. e skin burns and eye damage. allergic skin reaction. s eye damage. s eye irritation. d.	
	H226Flammable liqH302Harmful if swaH311Toxic in contactH312Harmful in contactH314Causes severeH317May cause anH318Causes seriouH319Causes seriouH331Toxic if inhaled	uid and vapour. llowed. ct with skin. tact with skin. e skin burns and eye damage. allergic skin reaction. s eye damage. s eye irritation. d.	
	H335 May cause res H336 May cause dro H411 Toxic to aquat EUH066 Repeated exp	spiratory irritation. owsiness or dizziness. ic life with long lasting effects. osure may cause skin dryness or cracl	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 3 • Category 1A • Category 1C 1 1B
History			
Date of issue/ Date of revision	: 27 August 2024		
Date of previous issue	: 24 July 2024		
Prepared by	: EHS		
Version	: 1.01		

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