SAFETY DATA SHEET

Date of issue/Date of revision

: 8 August 2024

Version

: 1.02





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

1.1 Product identifier	
Product name	: SIGMAGUARD CSF 650 HARDENER CLEAR
Product code	: 000001099226
Other means of identification 00148999	ation
1.2 Relevant identified use	es of the substance or mixture and uses advised against
Product use	: Professional applications, Used by spraying.
Use of the substance/ mixture	: 🖬 ardener.; Coating.
Uses advised against	: Product is not intended, labelled or packaged for consumer use.
1.3 Details of the supplier	of the safety data sheet
PPG Côte d'Ivoire 15 BP 396, Abidjan 15 Cote D'Ivoire	

15 BP 396, Abidjan 15 Cote D'Ivoire Tel: 00225 21 75 04 10 Fax: 00225 21 27 16 28

1.4 Emergency telephone : ORFILA (INRS) 0033 (0)1 45 42 59 59 / 00225 21 75 04 10 number

SECTION 2: Hazards identification

 2.1 Classification of the substance or mixture

 Product definition
 : Mixture

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

 Flam. Lig. 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 SIGMAGUARD CSF 650 HAR	о́
SECTION 2: Hazards	
Hazard pictograms	
	: Danger
Hazard statements	 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.
Precautionary statements	
Prevention	: Wear protective gloves, protective clothing and eye or face protection. Keep away fro heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoi release to the environment.
Response	: Collect spillage. IF INHALED: Immediately call a POISON CENTER or doctor.
Storage	: Not applicable.
Disposal	 Dispose of contents and container in accordance with all local, regional, national and international regulations. P280, P210, P273, P391, P304 + P310, P501
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	<u>ients</u>
Containers to be fitted with child-resistant fastenings	: Not applicable.
Tactile warning of danger	: Not applicable.
2.3 Other hazards	
Product meets the criteria for PBT or vPvB	: This mixture does not contain any substances that are assessed to be a PBT or a vPv \mathbf{v}
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

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SECTION 3: Composition/information on ingredients

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.

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SIGMAGUARD CSF 650 HA	RDENER CLEAR					
SECTION 4: First ai	d 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 o 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 sympto	ms and effects, both acute and delayed					
Potential acute health effe	ects					
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.					
Over-exposure signs/sym	<u>ptoms</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 immed	liate medical attention and special treatment needed					
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.					
Specific treatments	: No specific treatment.					
SECTION 5: Firefig	nting measures					
5.1 Extinguishing media						
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.					

Unsuitable extinguishing : Do not use water jet. media

5.2 Special bazards arising from the substance or mixture

5.2 Special nazarus arising i	
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.

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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 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

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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	Exposure limit values					
benzyl alcohol	IPEL (-).					
	TWA: 5 ppm					
	STEL: 10 ppm					
butanone	EU OEL (Europe, 1/2022).					
	STEL: 900 mg/m ³ 15 minutes.					
	STEL: 300 ppm 15 minutes.					
	TWA: 600 mg/m ³ 8 hours.					
	TWA: 200 ppm 8 hours.					
procedures Standard EN (by inhalation t strategy) Euro application an biological age requirements	hould be made to monitoring standards, such as the following: European 689 (Workplace atmospheres - Guidance for the assessment of exposu to chemical agents for comparison with limit values and measurement ropean Standard EN 14042 (Workplace atmospheres - Guide for the nd use of procedures for the assessment of exposure to chemical and ents) European Standard EN 482 (Workplace atmospheres - General s for the performance of procedures for the measurement of chemical erence to national guidance documents for methods for the determination	ire				
	English (GB) Ivory Coast 6/14					

Conforms to Regulation (EC) 2020/878	No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU)
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	of hazardous substances will also be required.
8.2 Exposure controls	
Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Individual protection measu	
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	: Chemical splash goggles and face shield.
Skin protection	
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 p	physical and chemical properties
Appearance	
Physical state	: Liquid.
Colour	: Colourless.
Odour	: Aromatic.
Odour threshold	: Not available.
	English (GB)

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SECTION 9: Physical ar										
Melting point/freezing point	:	May start to solidify at the following temperature: $-7.1^{\circ}C$ (19.2°F) This is based on data for the following ingredient: 2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine). Weighted average: $-13.77^{\circ}C$ (7.2°F)								
Initial boiling point and boiling range	;	>37.78°C								
Flammability	:	Not available.								
Upper/lower flammability or explosive limits	:	Greatest known rang	Greatest known range: Lower: 1.3% Upper: 13% (benzyl alcohol)							
Flash point	:	Closed cup: 52°C								
Auto-ignition temperature	:	Ingredient name		°C	°F	M	ethod			
		2,2'-dimethyl-4,4'-methyle (cyclohexylamine)	nebis	275	527					
Decomposition temperature	:	Stable under recommended storage and handling conditions (see Section 7).								
pH Viscosity			Not applicable. Kinematic (40°C): >21 mm²/s							
Viscosity Solubility(ies)	1	Kinemalic (40 C). 2	1 11111 /5							
Media	-	Result								
cold water		Not soluble								
Partition coefficient: n-octanol/ water	:									
Vapour pressure	:		Vapour Pressure at 20°C			Vapo	Vapour pressure at 50°C			
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method		
		butanone	78.7564	10.5						
Evaporation rate		0.007 (benzyl alcohol) compar	ed with b	utvl acetate					
Relative density		0.96	, , ,		,					
Vapour density	:	Highest known value: 1)	: 3.7 (Air	= 1) (be	nzyl alcohol).	Weighte	d averag	je: 3.35 (A		
Explosive properties	:	The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.								
	:	Product does not pre	sent an o	xidizing l	nazard.					
Oxidising properties										
Oxidising properties Particle characteristics										

No additional information.

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SECTION 10: Stability and reactivity				
10.1 Reactivity	:	No specific test data related to reactivity av	vailable for this product or its ing	edients.
10.2 Chemical stability	:	The product is stable.		
10.3 Possibility of hazardous reactions	:	Under normal conditions of storage and us	se, hazardous reactions will not c	occur.
10.4 Conditions to avoid	:	When exposed to high temperatures may Refer to protective measures listed in sect		on products.
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SECTION 10: Stability and reactivity

10.5 Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
10.6 Hazardous decomposition products	: Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides 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 ³	4 hours
(cyclohexylamine)	mists		-	
	LD50 Dermal	Rabbit	>0.2 g/kg	-
	LD50 Oral	Rat	>0.32 g/kg	-
benzyl alcohol	LC50 Inhalation Dusts and mists	Rat	>4178 mg/m ³	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(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	-

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

Irritation/Corrosion			
Conclusion/Summary			
Skin	: There are no data available on the mixture itself.		
Eyes	: There are no data available on the mixture itself.		
Respiratory	: There are no data available on the mixture itself.		
Sensitisation			
Conclusion/Summary			
Skin	: There are no data available on the mixture itself.		
Respiratory	: There are no data available on the mixture itself.		
Mutagenicity			
Conclusion/Summary	: There are no data available on the mixture itself.		
Carcinogenicity			
Conclusion/Summary	: There are no data available on the mixture itself.		
Reproductive toxicity			
Conclusion/Summary	: There are no data available on the mixture itself.		
Teratogenicity			
Conclusion/Summary	: There are no data available on the mixture itself.		
Product/in	gredient name Category Route of exposure		
Information on likely	: Not available.		

Information on likely routes of exposure

Potential acute health effects

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Target organs

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SECTION 11: Toxicol	ogical information
Inhalation	: Toxic if inhaled.
Ingestion	: Harmful if swallowed.
Skin contact	: Causes severe burns. Toxic in contact with skin. Defatting to the skin. May cause a allergic skin reaction.
Eye contact	: Causes serious eye damage.
Symptoms related to the ph	vsical, chemical and toxicological characteristics
Inhalation	: No specific data.
Ingestion	: Adverse symptoms may include the following: stomach pains
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur
Eye contact	: Adverse symptoms may include the following: pain watering redness
	cts as well as chronic effects from short and long-term exposure
Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure Potential immediate	: Not available.
effects	A NUMBER OF A DESCRIPTION
Potential delayed effects	
Potential chronic health effe Not available.	<u>CIS</u>
Conclusion/Summary	: Not available.
General	: 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.

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

English (GB)

Code

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SECTION 11: Toxicological information

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	OECD 301D Ready Biodegradability - Closed Bottle Test	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	: 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)

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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
of this product, solutions and any by-products should at all times comply with the
requirements of environmental protection and waste disposal legislation and any
regional local authority requirements. Dispose of surplus and non-recyclable products
via a licensed waste disposal contractor. Waste should not be disposed of untreated to
the sewer unless fully compliant with the requirements of all authorities with jurisdiction.Hazardous waste: 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	taken when h Empty contai residues may Do not cut, w	and its container must be disposed of in a safe way. Care should be nandling 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. yeld or grind used containers unless they have been cleaned thoroughly yoid dispersal of spilt material and runoff and contact with soil, waterways, ewers.	

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	Ш	11	Ш
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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SIGMAGUARD CSF 650 HARDENER CLEAR				
SECTION 1	4: Transport information	1		
Additional info	rmation			
ADR/RID	≤5 kg.	-		
Tunnel code	: (E)			
IMDG	•	ot required when transported in sizes of ≤ 5 L	•	
ΙΑΤΑ	: The environmentally hazardous regulations.	substance mark may appear if required by	other transportation	
14.6 Special pr user		user's premises: always transport in close e. Ensure that persons transporting the prode ent or spillage.		
14.7 Transport according to IN instruments				
SECTION 1	5: Regulatory informatio	n		
15.1 Safety, he	alth and environmental regulations	s/legislation specific for the substance or	mixture	
EU Regulation	<u>n (EC) No. 1907/2006 (REACH)</u>			
Annex XIV -	List of substances subject to autho	<u>orisation</u>		
Annex XIV				
None of the o	components are listed.			
<u>Substances</u>	<u>of very high concern</u>			
None of the o	components are listed.			
Annex XVII - on the manu placing on th and use of c dangerous s	ne market ertain			
mixtures and				
Other nationa	l and international regulations.			
Explosive pre	cursors : Not applicable.			
Ozone deplet Not listed.	ing substances (1005/2009/EU)			
	safety : No Chemical Safet	ty Assessment has been carried out.		

SECTION 16: Other information

Indicates information	that has changed from previously issued version.
Abbreviations and acronyms	 ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

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SECTION 16: Other	information		
Full text of abbreviated H statements	H226Flammable liquiH302Harmful if swalleH311Toxic in contactH312Harmful in contactH314Causes severeH317May cause an aH318Causes seriousH319Causes seriousH331Toxic if inhaled.H332Harmful if inhaled.H335May cause respH336May cause drowH411Toxic to aquaticEUH066Repeated expose	owed. with skin. act with skin. skin burns and eye damage. Ilergic skin reaction. eye damage. eye irritation. ed. iratory irritation. vsiness or dizziness. Ife with long lasting effects. sure may cause skin dryness or crace	sking.
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) AQUA SERIOUS EYE DAMAGE/EYE IR SERIOUS EYE DAMAGE/EYE IR FLAMMABLE LIQUIDS - Category FLAMMABLE LIQUIDS - Category SKIN CORROSION/IRRITATION SKIN CORROSION/IRRITATION SKIN SENSITISATION - Category SPECIFIC TARGET ORGAN TO EXPOSURE - Category 3	RITATION - Category 1 RITATION - Category 2 / 2 / 3 - Category 1A - Category 1C / 1 / 1B
<u>History</u>			
Date of issue/ Date of revision	: 8 August 2024		
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Prepared by	: EHS		
Version	: 1.02		
Disclaimor			

<u>Disclaimer</u>

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