SAFETY DATA SHEET

Date of issue/Date of revision

: 1 February 2024

Version

: 13.03





SECTION 1: Identification of the substance/mixture and of the company/ undertaking **1.1 Product identifier** : SIGMAGUARD CSF 650 HARDENER CLEAR **Product name** : 00148999

Not available.	ole.
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Other means of identification

1.2 Relevant identified uses of the substance or mixture and uses advised against

Product use	: Professional applications, Used by spraying.
Use of the substance/ mixture	: Coating.
Uses advised against	: Product is not intended, labelled or packaged for consumer use.

1.3 Details of the supplier of the safety data sheet

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

Product code

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. 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 : 00148999	Date of issue/Date of revision : 1 February	2024
SIGMAGUARD CSF 650 HAR		
SECTION 2: Hazards	entification	
Hazard pictograms		
Signal word	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 awa heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. 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 international regulations. P280, P210, P273, P391, P304 + P310, P501	and
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 requiren	<u>s</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 vPvl
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 : 00148999

Date of issue/Date of revision

: 1 February 2024

SIGMAGUARD CSF 650 HARDENER CLEAR

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)	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 Index: 603-069-00-0	≥1.0 - ≤5.0	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1C, H314 Eye Dam. 1, H318	ATE [Oral] = 1200 mg/ kg ATE [Dermal] = 1280 mg/kg	[1]
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.

Туре

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

SUB codes represent substances without registered CAS Numbers.

SECTION 4: First aid measures

4.1 Description of first	aid measures
Eye contact	: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
Inhalation	 Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	 Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
Ingestion	: If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.

Code : 00148999	Date of issue/Date of revision : 1 February 2024
SIGMAGUARD CSF 650 HAF	•
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.
Over-exposure signs/symp	o <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 immed	iate 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: Firefigh	ting measures
5.1 Extinguishing media	
Suitable extinguishing	: Use dry chemical, CO ₂ , water spray (fog) or foam.

media	
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.

Code	: 00148999	Date of issue/Date of revision	:
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SIGMAGUARD CSF 650 HARDENER CLEAR

1 February 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	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	: 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

Code : 00148999

Date of issue/Date of revision

: 1 February 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				
benzyl alcohol	IPEL (-).					
	TWA: 5 ppm					
	STEL: 10 ppm					
butanone	EU OEL (Europe, 1/202					
	STEL: 900 mg/m ³ 15 n					
	STEL: 300 ppm 15 mir					
	TWA: 600 mg/m ³ 8 ho					
	TWA: 200 ppm 8 hours	S.				
procedures Standard by inhala strategy) application biological requirem	e should be made to monitoring EN 689 (Workplace atmosphere tion to chemical agents for comp European Standard EN 14042 (on and use of procedures for the l agents) European Standard EN ents for the performance of proce Reference to national guidance d	es - Guidance for the assessme arison with limit values and mea Workplace atmospheres - Guid assessment of exposure to che I 482 (Workplace atmospheres edures for the measurement of	nt of exposure asurement e for the mical and - General chemical			
	English (GB)	Ivory Coast	6/14			

020/878						
Code : 00148999	Date of issue/Date of revision : 1 February 2024					
SIGMAGUARD CSF 650 HAF						
	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 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 measured	<u>lres</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	: 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 physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid.
Colour	: Various
Odour	: Aromatic. [Strong]
Odour threshold	: Not available.

English (GB)

Code : 00148999

Date of issue/Date of revision :

: 1 February 2024

SIGMAGUARD CSF 650 HARDENER CLEAR

SECTION 9: Physical and chemical properties

с. с. _с		May start to solidify at the following temperature: -7.1°C (19.2°F) This is based on lata for the following ingredient: 2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine). Veighted average: -13.74°C (7.3°F)		
Initial boiling point and boiling range	:	>37.78°C		
Flammability	1	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	: -	426°C (798.8°F)		
Decomposition temperature	1	Stable under recommended storage and handling conditions (see Section 7).		
рН	1	Not applicable. insoluble in water.		
Viscosity	1	Kinematic (40°C): <14 mm²/s		
Solubility(ies)	1			
Media		Result		
cold water		Not soluble		

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

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Vapour pressure		Vapour Pressure at 20°C			Vapour pressure at 50°C			
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
		putanone	78.7564	10.5				
Evaporation rate	:	0.007 (benzyl alcoho	l) compar	ed with	butyl acetate		-	
Relative density	:	0.96						
Vapour density	:	Highest known value 1)	: 3.7 (Air	= 1) (b	enzyl alcohol).	Weighte	ed averag	ge: 3.32 (Air =
Explosive properties	:	The product itself is r vapour or dust with a			the formation	of an exp	losible m	nixture of
Oxidising properties	:	Product does not pre	sent an o	xidizing	hazard.			
Particle characteristics								
Median particle size	:	Not applicable.						

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity					
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.				
10.2 Chemical stability	: The product is stable.				
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.				
10.4 Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.				

Conforms to 2020/878	Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878								
Code	: 00148999	Date of issue/Date of revision	: 1 February 2024						
SIGMAGUA	RD CSF 650 HARDENER CLEAR								
SECTION	N 10: Stability and reactivit	у							
10.5 Incomp		the following materials to prevent strong exot strong alkalis, strong acids.	hermic reactions:						

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 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	Rat	>4178 mg/m ³	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	Rabbit	1.28 g/kg	-
	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.

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Irritation/Corrosion						
Product/ingredient name		Result	Result Species		Exposure	Observation
2,4,6-tris(dimethylaminom	ethyl)phenol	Skin - Visible necrosis	Rabbit	-	4 hours	7 days
Conclusion/Summary				1		
Skin	: There a	re no data available on the	mixture itself			
Eyes	: There a	re no data available on the	mixture itself			
Respiratory	: There a	re no data available on the	mixture itself			
Sensitisation						
Conclusion/Summary						
Skin	: There	are no data available on the	mixture itsel	f.		
Respiratory	: There	are no data available on the	mixture itse	f.		
Mutagenicity						
Conclusion/Summary	: There	are no data available on the	mixture itsel	f.		
Carcinogenicity						
Conclusion/Summary	: There	are no data available on the	mixture itsel	f.		
Reproductive toxicity						
Conclusion/Summary	: There	are no data available on the	mixture itse	f.		
Teratogenicity						

Conclusion/Summary : There are no data available on the mixture itself. Specific target organ toxicity (single exposure)

SECTION 11: Toxicological information

Product/ing	Category	Route of exposure	Target organs	
♥utanone N-(3-(trimethoxysilyl)propyl)e	ethylenediamine	Category 3 Category 3	-	Narcotic effects Respiratory tract irritation
Specific target organ toxic	ity (repeated exposure)	1		
Not available.				
Aspiration hazard				
Not available.				
Information on likely routes of exposure	: Not available.			
Potential acute health effect	<u>ets</u>			
Inhalation	: Toxic if inhaled.			
Ingestion	: Harmful if swallowe	ed.		
Skin contact	: Causes severe bur allergic skin reactio		ith skin. Defatting	g to the skin. May cause an
Eye contact	: Causes serious eye	e damage.		
Symptoms related to the pl	<u>hysical, chemical and t</u>	toxicological charact	<u>eristics</u>	
Inhalation	: No specific data.			
Ingestion	: Adverse symptoms stomach pains	may include the follow	ving:	
Skin contact	: Adverse symptoms pain or irritation redness dryness cracking blistering may occu	may include the follov	ving:	
Eye contact	: Adverse symptoms pain watering redness	may include the follov	ving:	
Delayed and immediate eff	<u>ects as well as chronic</u>	effects from short a	nd long-term ex	posure
<u>Short term exposure</u>				
Potential immediate effects	: Not available.			
Potential delayed effects	Not available.			
Long term exposure				
Potential immediate effects	: Not available.			
Potential delayed effects	S : Not available.			
Potential chronic health eff	f <u>ects</u>			
Not available.				
Conclusion/Summary	: Not available.			
General		ensitized, a severe alle		to irritation, cracking and/or occur when subsequently
Carcinogenicity	: No known significa	nt effects or critical ha	zards.	
Mutagenicity	: No known significa	nt effects or critical ha	zards.	
Reproductive toxicity	: No known significa	nt effects or critical ha	zards.	

Date of issue/Date of revision

: 1 February 2024

Code : 00148999

SIGMAGUARD CSF 650 HARDENER CLEAR

SECTION 11: Toxicological information

Other information

: Not available.

Folonged 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
₹,4,6-tris(dimethylaminomethyl)phenol	Acute LC50 175 mg/l	Fish	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

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

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
benzyl alcohol	-	-	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

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

12.6 Endocrine disrupting properties

Not available.

Code

SIGMAGUARD CSF 650 HARDENER CLEAR

: 00148999

Date of issue/Date of revision

: 1 February 2024

SECTION 12: Ecological information

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

: Yes.

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

13.1 Waste treatment methods

Product

Methods of disposal

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

Hazardous waste

European waste catalogue (EWC)

ſ	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)		European waste catalogue (EWC)
Container	15 01 06 mixed packaging	
Special precautions	taken when h Empty contain residues may Do not cut, w	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. ners or liners may retain some product residues. Vapour from product or create a highly flammable or explosive atmosphere inside the container. reld or grind used containers unless they have been cleaned thoroughly roid 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	UN3470	UN3470	UN3470
14.2 UN proper shipping name	PAINT, CORROSIVE, FLAMMABLE	PAINT, CORROSIVE, FLAMMABLE	PAINT, CORROSIVE, FLAMMABLE
14.3 Transport hazard class(es)	8 (3)	8 (3)	8 (3)
14.4 Packing group	11	11	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.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878				
Code : 0	0148999	Date of issue/Date of revision : 1 February 2024		
SIGMAGUARD (SF 650 HARDENEF	CLEAR		
SECTION 1	4: Transport in	Iformation		
Additional inform	nation			
ADR/RID	ADR/RID : The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.			
Tunnel code	: (D/E)			
IMDG	: The marine pollutant mark is not required when transported in sizes of ≤ 5 L or ≤ 5 kg.			
ΙΑΤΑ	IATA : The environmentally hazardous substance mark may appear if required by other transportation regulations.			
14.6 Special pre user	upr	nsport within user's premises: always transport in closed containers that are ight and secure. Ensure that persons transporting the product know what to do in the ont of an accident or spillage.		
14.7 Transport i according to IM instruments		t applicable.		
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.
15.2 Chemical safety : No Chemical Safety Assessment has been carried out. assessment

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 			

Code : 00148999	D	ate of issue/Date of revision	: 1 February 2024
SIGMAGUARD CSF 650 HAF	RDENER CLEAR		-
SECTION 16: Other	information		
Full text of abbreviated H statements	 H225 Highly flammable H226 Flammable liquid H302 Harmful if swallow H311 Toxic in contact w H312 Harmful in contact H314 Causes severe sk H317 May cause an alle H318 Causes serious ey H319 Causes serious ey H311 Toxic if inhaled. H322 Harmful if inhaled. H335 May cause drowsi H411 Toxic to aquatic lif EUH066 Repeated exposure 	ved. vith skin. t with skin. kin burns and eye damage. ergic skin reaction. ye damage. ye irritation. atory irritation. iness or dizziness. fe with long lasting effects. re may cause skin dryness or crac	king.
Full text of classifications [CLP/GHS]	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
History			
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Prepared by	: EHS		
Version	: 13.03		
Disclaimer			

<u>Disclaimer</u>

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