SAFETY DATA SHEET

Date of issue/Date of revision

: 1 February 2024

Version

: 4.03





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	: 00148999
Other means of identification	ation
Not available.	
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	: 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
Sigma Paints Egypt Villa#8, street 279 New Maadi, Cairo Egypt Tel: 00202 516 223 797	

: PS.ACEMEA@ppg.com

1.4 Emergency telephone : +20 2 6840902

Fax: 00202 516 38 04 e-mail address of person

number

responsible for this SDS

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

Code : 00148999	Date of issue/Date of revision : 1 February 2024
SIGMAGUARD CSF 650 HAR	ENER CLEAR
SECTION 2: Hazards	dentification
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 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	: 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 requiren	<u>nts</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
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

Date of issue/Date of revision

: 1 February 2024

Code : 00148999

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.

<u>Type</u>

[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

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		Date of issue/Date of revision	: 1 February 2024
IGMAGUARD CSF 650 HA	RDENER CLEAR		
SECTION 4: First ai	d measures		
Protection of first-aiders	suspected that fumes self-contained breath	ken involving any personal risk or without s are still present, the rescuer should wea ning apparatus. It may be dangerous to th resuscitation. Wash contaminated cloth r wear gloves.	r an appropriate mask or he person providing aid to
.2 Most important sympto Potential acute health effe		te and delayed	
Eye contact	: Causes serious eye	damage.	
Inhalation	: Toxic if inhaled.		
Skin contact		s. Toxic in contact with skin. Defatting to	the skin. May cause an
Ingestion	: Harmful if swallowed	l.	
<u>Over-exposure signs/sym</u>	<u>ptoms</u>		
Eye contact	: Adverse symptoms pain watering redness	may include the following:	
Inhalation	: No specific data.		
Skin contact	: Adverse symptoms pain or irritation redness dryness cracking blistering may occur	may include the following:	
Ingestion	: Adverse symptoms stomach pains	may include the following:	
.3 Indication of any immed	diate medical attention ar	nd special treatment needed	
Notes to physician		of decomposition products in a fire, symp may need to be kept under medical surve	
Specific treatments	: No specific treatmen	t.	

Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	: Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides metal oxide/oxides Formaldehyde.

Code	: 00148999	Date of issue/Date of revision

: 1 February 2024

SECTION 5: Firefighting measures

SIGMAGUARD CSF 650 HARDENER CLEAR

5.3 Advice for firefighters		
Special precautions for fire-fighters	omptly isolate the scene by removing all persons from the ere is a fire. No action shall be taken involving any person ining. Move containers from fire area if this can be done v ray to keep fire-exposed containers cool.	al risk or without suitable
Special protective equipment for fire-fighters	re-fighters should wear appropriate protective equipment a paratus (SCBA) with a full face-piece operated in positive r fire-fighters (including helmets, protective boots and glove andard EN 469 will provide a basic level of protection for cl	pressure mode. Clothing es) conforming to European

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

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 nar	e Exp	Exposure limit values				
b útanone			ium			
procedures St by sti ap bio re ac	erence should be made to monitoring stan indard EN 689 (Workplace atmospheres - 6 inhalation to chemical agents for compariso tegy) European Standard EN 14042 (Wor lication and use of procedures for the asse ogical agents) European Standard EN 482 uirements for the performance of procedur ints) Reference to national guidance docu azardous substances will also be required	Guidance for the assessment of expo on with limit values and measurement kplace atmospheres - Guide for the essment of exposure to chemical and 2 (Workplace atmospheres - General es for the measurement of chemical ments for methods for the determinat	sure t			
	English (GB)	Egypt 6/	14			

Code : 00148999	Date of issue/Date of revision : 1 February 2024
SIGMAGUARD CSF 650 HAF	•
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 measured	<u>ires</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 physic	al and chemical properties
<u>Appearance</u>	
Physical state	: Liquid.
Colour	: Various
Odour	: Aromatic. [Strong]
Odour threshold	: Not available.
Melting point/freezing point	

Date of issue/Date of revision

: 1 February 2024

Code

SIGMAGUARD CSF 650 HARDENER CLEAR

: 00148999

SECTION 9: Physical and chemical properties

	May start to solidify at the following temperature: -7.1°C (19.2°F) This is based on data for the following ingredient: 2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine). Weighted average: -13.74°C (7.3°F)
Initial boiling point and boiling range	: >37.78°C
Flammability	: Not available.
Upper/lower flammability or explosive limits	: Greatest known range: Lower: 1.3% Upper: 13% (benzyl alcohol)
Flash point	: Closed cup: 52°C
Auto-ignition temperature Decomposition temperature pH Viscosity	 426°C (798.8°F) Stable under recommended storage and handling conditions (see Section 7). Not applicable. insoluble in water. Kinematic (40°C): <14 mm²/s
Solubility(ies)	:
Media	Result
cold water	Not soluble

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

Vapour pressure		:	Vapour Pressure at 20°C			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 alcoho	ol) compar	ed with	butyl acetate		!	
Relative density	:	0.96						
Vapour density	:	: Highest known value: 3.7 (Air = 1) (benzyl alcohol). Weighted average: 3.32 (Air = 1)						
Explosive properties	:	The product itself is vapour or dust with a	•		the formation	of an exp	olosible m	nixture of
Oxidising properties		Product does not pro	esent an o	xidizing	hazard.			
Particle characteristics								
Median particle size		Not applicable.						

9.2 Other information

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No additional information.

SECTION 10: Stabil	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 1 2020/878	Regulation (EC) No	. 1907/2006 (REACH), Annex II, as amended by Commissio	n Regulation (EU)
	: 00148999 D CSF 650 HARDEI	NER CLEAR	Date of issue/Date of revision	: 1 February 2024
SECTION	10: Stability a	and reactivity		
10.5 Incompa	tible materials :		following materials to prevent strong exot ong 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		Ū	
	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)	LD50 Dermal	Rabbit	>2000 mg/kg	-
ethylenediamine				
	LD50 Oral	Rat	2413 mg/kg	-

Conclusion/Summary

: There are no data available on the mixture itself.

Eyes : There Respiratory : There Sensitisation : There Conclusion/Summary : There Skin : There	Skin - Visible necrosis e are no data available on the e are no data available on the e are no data available on the e are no data available on the	mixture itself		4 hours	7 days
Skin: ThereEyes: ThereRespiratory: ThereSensitisation: ThereConclusion/Summary: ThereSkin: There	e are no data available on the e are no data available on the	mixture itself			
Eyes : There Respiratory : There Sensitisation : There Conclusion/Summary : There Skin : There	e are no data available on the e are no data available on the	mixture itself			
Respiratory : There Sensitisation : There Conclusion/Summary : There Skin : There	e are no data available on the	mixture itself			
Sensitisation Conclusion/Summary Skin : There			-		
Conclusion/Summary Skin : Ther	e are no data available on the		_		
Skin : Ther	e are no data available on the		-		
•	e are no data available on the		-		
Respiratory : Ther		e mixiure ilsei	t.		
	e are no data available on the	e mixture itsel	f.		
Mutagenicity					
Conclusion/Summary : Ther	e are no data available on the	e mixture itsel	f.		
Carcinogenicity					
Conclusion/Summary : Ther	e are no data available on the	e mixture itsel	f.		
Reproductive toxicity					
Conclusion/Summary : Ther	e are no data available on the	e mixture itsel	f.		
<u>Teratogenicity</u>					
Conclusion/Summary : Ther	e are no data available on the	e mixture itsel	f.		

 Code
 <th::00148999</th>
 Date of issue/Date of revision
 : 1 February 2024

 SIGMAGUARD CSF 650 HARDENER CLEAR

 : 1 February 2024

SECTION 11: Toxicological information

Product/in	gredient name	Category	Route of exposure	Target organs		
vutanone		Category 3	-	Narcotic effects		
N-(3-(trimethoxysilyl)propyl))ethylenediamine	Category 3	-	Respiratory tract irritation		
Specific target organ toxic	<u>city (repeated expos</u>	ure)				
Not available.						
Aspiration hazard						
Not available.						
Information on likely routes of exposure	: Not available.					
Potential acute health effe	<u>cts</u>					
Inhalation	: Toxic if inhaled.					
Ingestion	: Harmful if swall	owed.				
Skin contact	: Causes severe allergic skin rea		ith skin. Defatting	g to the skin. May cause an		
Eye contact	: Causes serious					
Symptoms related to the p		· · · · · · · · · · · · · · · · · · ·	eristics			
Inhalation	: No specific data					
Ingestion	: Adverse sympto stomach pains	Adverse symptoms may include the following: tomach pains				
Skin contact	: Adverse sympto pain or irritation redness dryness cracking blistering may c		ving:			
Eye contact	: Adverse sympto pain watering redness	oms may include the follow	ving:			
Delayed and immediate ef	<u>fects as well as chro</u>	onic effects from short a	nd long-term ex	<u>posure</u>		
Short term exposure						
Potential immediate effects	: Not available.					
Potential delayed effect	s : Not available.					
Long term exposure						
Potential immediate effects	: Not available.					
Potential delayed effect	s : Not available.					
Potential chronic health ef Not available.	ffects					
Conclusion/Summary	: Not available.					
General	: Prolonged or re	e sensitized, a severe alle		to irritation, cracking and/or occur when subsequently		
Carcinogenicity	: No known signi	ficant effects or critical ha	zards.			
Mutagenicity	: No known signi	ficant effects or critical ha	zards.			
Demos de effere fantation	• No known signi	ficant effects or critical ha	zards.			
Reproductive toxicity	. No known sign					

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 N-(3-(trimethoxysilyl)propyl)ethylenediamine	Acute LC50 175 mg/l	Fish	96 hours
	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

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 : Yes.

European waste catalogue (EWC)

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

Packaging

Methods of disposal

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

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

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	II
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.

Code : 00148999		Date of issue/Date of revision	: 1 February 2024	
SIGMAGUARD CSF 650 HARD	ENER CLEAR			
SECTION 14: Transpo	ort information			
Additional information				
≤5 kg.	nmentally hazardous s	substance mark is not required when trar	nsported in sizes of ≤5 L or	
Tunnel code : (D/E)				
	•	required when transported in sizes of ≤5	•	
IATA : The enviro regulations		substance mark may appear if required b	y other transportation	
14.6 Special precautions for user		user's premises: always transport in close Ensure that persons transporting the pro- the or spillage.		
14.7 Transport in bulk according to IMO instruments	: Not applicable.			
SECTION 15: Regulat	ory information	n		
15.1 Safety, health and enviro	nmental regulations/	legislation specific for the substance	or mixture	
EU Regulation (EC) No. 1907	2006 (REACH)			
Annex XIV - List of substan	ces subject to autho	<u>risation</u>		
Annex XIV				
None of the components are	listed.			
Substances of very high co	ncern			
None of the components are	listed.			
Annex XVII - Restrictions	: Not applicable.			
on the manufacture,				
placing on the market				
and use of contain				
and use of certain dangerous substances,				

mixtures and articles

Other national and international regulations. : Not applicable. Explosive precursors

Ozone depleting substances (1005/2009/EU)

Not listed.

15.2 Chemical safety

assessment

: No Chemical Safety 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
Full text of abbreviated H	Ŭ

Code : 00148999		Date of issue/Date of revision : 1 February 2024
SIGMAGUARD CSF 650 HAF	DENER CLEAR	
SECTION 16: Other	information	
		le liquid and vapour.
Full text of classifications [CLP/GHS]	H226Flammable liquidH302Harmful if swalldH311Toxic in contactH312Harmful in contaH314Causes severe sH317May cause an alH318Causes seriousH319Causes seriousH331Toxic if inhaled.H332Harmful if inhaleH335May cause respiH336May cause drowH411Toxic to aquatic	id and vapour. bwed. with skin. act with skin. skin burns and eye damage. Ilergic skin reaction. eye damage. eye irritation.
History		EXPOSURE - Category 3
Date of issue/ Date of revision	: 1 February 2024	
Date of previous issue	: 28 November 2022	
Prepared by	: EHS	
Version	: 4.03	
Disalaiman		

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