SAFETY DATA SHEET

Date of issue/Date of revision

: 20 February 2024 Version



PPG

: 4.03

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

1.1 Product identifier	
Product name	: SIGMAGUARD CSF 650 HARDENER GREEN
Product code	: 00140724
Other means of identifica Not available.	tion
1.2 Relevant identified use	s 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	of the safety data sheet
Sigma Paints Egypt Villa#8, street 279 New Maadi, Cairo	

New Maadi, Cairo	
Egypt	
Tel: 00202 516 223 797	
Fax: 00202 516 38 04	
e-mail address of person	: PS.ACEMEA@ppg.com
responsible for this SDS	

1.4 Emergency telephone : +20 2 6840902 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, 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 : 00140724 SIGMAGUARD CSF 650 HAR	Date of issue/Date of revision : 20 February 202
SECTION 2: Hazards	
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 fro 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>ents</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

: 20 February 2024

Code : 00140724

SIGMAGUARD CSF 650 HARDENER GREEN

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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Code : 00140724		Date of issue/Date of revision	: 20 February 2024
SIGMAGUARD CSF 650 HAP	RDENER GREEN		
SECTION 4: First aid	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.	ar an appropriate mask or he person providing aid to
4.2 Most important symptor Potential acute health effe		te and delayed	
Eye contact	: Causes serious eye	damage.	
Inhalation	: Toxic if inhaled.	-	
Skin contact	: Causes severe burns allergic skin reaction	s. Toxic in contact with skin. Defatting to	o the skin. May cause an
Ingestion	: Harmful if swallowed	l.	
Over-exposure signs/symp	otoms		
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:	
4.3 Indication of any immed	iate medical attention ar	nd special treatment needed	
Notes to physician		of decomposition products in a fire, symp may need to be kept under medical surv	, ,
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	: 00140724	Date of issue/Date of revision	:

SIGMAGUARD CSF 650 HARDENER GREEN

20 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 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 : 00140724

Date of issue/Date of revision

: 20 February 2024

SIGMAGUARD CSF 650 HARDENER GREEN

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	osure limit values	
Dutanone	-		
procedures St by str ap bio re- ag	erence should be made to monitoring stan ndard EN 689 (Workplace atmospheres - nhalation to chemical agents for comparise tegy) European Standard EN 14042 (Wor lication and use of procedures for the asse ogical agents) European Standard EN 483 uirements for the performance of procedur nts) Reference to national guidance docu azardous substances will also be required	Guidance for the assessment on with limit values and measu kplace atmospheres - Guide t essment of exposure to chemi 2 (Workplace atmospheres - C es for the measurement of ch ments for methods for the det	of exposure urement for the ical and General memical
	English (GB)	Egypt	6/14

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Code : 00140724	Date of issue/Date of revision : 20 February 2024
SIGMAGUARD CSF 650 HAR	
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	ies
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	

Code : 00140724

SIGMAGUARD CSF 650 HARDENER GREEN

Date of issue/Date of revision

: 20 February 2024

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 Solubility(ies)	 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
Media	Result
cold water	Not soluble

Partition coefficient: n-octanol/ : Not applicable water

VV C		
×/-	 	

INOL	applicable.	

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		I	
Relative density	:	0.96						
Vapour density	:	Highest known value 1)	e: 3.7 (Air	= 1) (b	enzyl alcohol).	Weight	ed averaç	ge: 3.32 (Air =
Explosive properties	:	The product itself is a vapour or dust with a	-		the formation	of an ex _l	olosible n	nixture of
Oxidising properties	:	Product does not pre	esent an o	xidizing	hazard.			
Particle characteristics								
Median particle size	:	Not applicable.						

9.2 Other information

Г

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.	

English ((GB)
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Code	: 00140724	Date of issue/Date of revision	: 20 February 2024
SIGMAGUA	ARD CSF 650 HARDENER GREEN		
SECTIO	N 10: Stability and reactive	vity	
10.5 Incom		om the following materials to prevent strong exot nts, 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)	LD50 Dermal	Rabbit	>2000 mg/kg	-
ethylenediamine				
	LD50 Oral	Rat	2413 mg/kg	-

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

Product/ingredient name			Result	Species	Score	Exposure	Observatio
2,4,6-tris(dimethylaminom	ethyl)phe	enol	Skin - Visible necrosis Rabbit	-	4 hours	7 days	
Conclusion/Summary							
Skin	: Th	ere are	no data available on the	mixture itself	:		
Eyes	: Th	ere are	no data available on the	mixture itself			
Respiratory	: Th	ere are	no data available on the	mixture itself			
Sensitisation							
Conclusion/Summary							
Skin	: Tł	nere are	no data available on the	e mixture itsel	f.		
Respiratory	: Tł	nere are	no data available on the	e mixture itsel	f.		
<u>Mutagenicity</u>							
Conclusion/Summary	: Tł	nere are	no data available on the	e mixture itsel	f.		
Carcinogenicity							
Conclusion/Summary	: Tł	nere are	no data available on the	e mixture itsel	f.		
Reproductive toxicity							
Conclusion/Summary	: Tł	nere are	no data available on the	e mixture itsel	f.		
Teratogenicity							
Conclusion/Summary	: Tł	nere are	no data available on the	e mixture itsel	f.		
Specific target organ tox	citv (sin	ale exp	osure)				

Code : 00140724 Date of issue/Date of revision : 20 February 2024 SIGMAGUARD CSF 650 HARDENER GREEN SECTION 11: Toxicological information **Route of Product/ingredient name** Category **Target organs** exposure butanone Narcotic effects Category 3 N-(3-(trimethoxysilyl)propyl)ethylenediamine Category 3 Respiratory tract irritation Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Information on likely routes of exposure

Not available.

: Not available.

Potential acute health effects

Inhalation : Toxic if inhaled.

- Ingestion : Harmful if swallowed.
- Skin contact : Causes severe burns. Toxic in contact with skin. Defatting to the skin. May cause an allergic skin reaction.
- **Eye contact** : Causes serious eye damage.
- Symptoms related to the physical, 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
- cracking

 blistering may occur

 Eye contact
 : Adverse symptoms may include the following:
 - pain watering redness
- Delayed and immediate effects as well as chronic effects from short and long-term exposure

		Frankisk (OD)	E au un t	0/4.4
Reproductive toxicity	4	No known significant effects or critical hazards.		
Mutagenicity	1	No known significant effects or critical hazards.		
Carcinogenicity	1	No known significant effects or critical hazards.		
General	:	Prolonged or repeated contact can defat the skin dermatitis. Once sensitized, a severe allergic real exposed to very low levels.		
Conclusion/Summary	:	Not available.		
Not available.				
Potential chronic health effe	ect	<u>S</u>		
Potential delayed effects	:	Not available.		
Potential immediate effects	:	Not available.		
Long term exposure				
Potential delayed effects	:	Not available.		
Potential immediate effects	:	Not available.		
<u>Short term exposure</u>				

English (GB)

Date of issue/Date of revision

: 20 February 2024

Code : 00140724

SIGMAGUARD CSF 650 HARDENER GREEN

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 GREEN

: 00140724

Date of issue/Date of revision

: 20 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

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 : 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	taken when h Empty contai residues may Do not cut, w	I and its container must be disposed of in a safe way. Care should be handling emptied containers that have not been cleaned or rinsed out. iners or liners may retain some product residues. Vapour from product y create a highly flammable or explosive atmosphere inside the container. weld or grind used containers unless they have been cleaned thoroughly void dispersal of spilt material and runoff and contact with soil, waterways, ewers.

SECTION 14: Transport information

	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN number or ID number	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	II	11
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 :	00140724	Date of issue/Date of revision	: 20 February 2024
SIGMAGUARD	CSF 650 HARDENER GREEN		
SECTION 1	4: Transport information	l	
Additional infor	mation		
ADR/RID	≤5 kg.	substance mark is not required when trans	ported in sizes of ≤5 L or
Tunnel code	: (D/E)		
IMDG	·	t 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 prouser	•	user's premises: always transport in close e. Ensure that persons transporting the prod nt or spillage.	
14.7 Transport according to IN instruments SECTION 1		n	
15.1 Safety, hea	alth and environmental regulations	/legislation specific for the substance or	r mixture
EU Regulation	(EC) No. 1907/2006 (REACH)		
Annex XIV -	_ist of substances subject to autho	<u>orisation</u>	
Annex XIV			
None of the o	components are listed.		
Substances	<u>of very high concern</u>		
None of the o	components are listed.		
Annex XVII -			
on the manu			
placing on th	ortain		
placing on th and use of c			
placing on th	ubstances,		
placing on th and use of c dangerous s mixtures and	ubstances,		
placing on th and use of c dangerous s mixtures and	ubstances, l articles l and international regulations.		
placing on th and use of co dangerous s mixtures and <u>Other nationa</u> Explosive pre	ubstances, l articles l and international regulations.		

15.2 Chemical safety

: No Chemical Safety Assessment has been carried out.

assessment

SECTION 16: Other information

Indicates information that I	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	

statements

Code : 00140724		Date of issue/Date of revision : 20 February 2024
SIGMAGUARD CSF 650 HAR	DENER GREEN	
SECTION 16: Other i	nformation	
SECTION 10: Other		
Full text of classifications [CLP/GHS]	H226Flammable liquH302Harmful if swallH311Toxic in contactH312Harmful in contactH312Harmful in contactH314Causes severeH317May cause an atH318Causes seriousH319Causes seriousH331Toxic if inhaledH332Harmful if inhaledH335May cause respH336May cause drowH411Toxic to aquatic	owed. with skin. act with skin. skin burns and eye damage. Illergic skin reaction. eye damage. eye irritation.
<u>History</u>		
Date of issue/ Date of revision	: 20 February 2024	
Date of previous issue	: 28 November 2022	
Prepared by	: EHS	
Version	: 4.03	
Dia dalara		

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