SAFETY DATA SHEET

Date of issue/Date of revision

: 27 August 2024

Version

: 1.01





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	: 000001011160
Other means of identification	on
00140724; 00141885; 00151	142; 00191154; 00204681; 00314992
1.2 Relevant identified uses	of the substance or mixture and uses advised against
Product use	: Professional applications, Used by spraying.
Use of the substance/ mixture	: F ardener.
Uses advised against	: Product is not intended, labelled or packaged for consumer use.
1.3 Details of the supplier of	the safety data sheet
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 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 There are the time for the product of the time (EQ) 4070 (2000)

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 : 000001011160	5
SIGMAGUARD CSF 650 HAR	
SECTION 2: Hazards	identification
Hazard pictograms	
	: Danger
Hazard statements	 Flammable liquid and vapour. Harmful if swallowed. Toxic in contact with skin or if inhaled. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.
Precautionary statements	
Prevention	: Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment.
Response	: Collect spillage. IF INHALED: Immediately call a POISON CENTER or doctor.
Storage	: Not applicable.
Disposal	 Dispose of contents and container in accordance with all local, regional, national and international regulations. P280, P210, P273, P391, P304 + P310, P501
Hazardous ingredients	: 2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine) N-(3-(trimethoxysilyl)propyl)ethylenediamine
Supplemental label elements	: Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.
Special packaging requirem	nents
Containers to be fitted with child-resistant fastenings	: Not applicable.
Tactile warning of danger	: Not applicable.
2.3 Other hazards	
Product meets the criteria for PBT or vPvB	: This mixture does not contain any substances that are assessed to be a PBT or a vPv
Other hazards which do not result in classification	: Prolonged or repeated contact may dry skin and cause irritation.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

: Mixture

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SIGMAGUARD CSF 650 HARDENER GREEN SECTION 3: Composition/information on ingredients					
SECTION 3: Compo	sition/informat		ngreaients		<u> </u>
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
2,2'-dimethyl-4,4'- methylenebis (cyclohexylamine)	REACH #: 01-2119497829-12 EC: 229-962-1 CAS: 6864-37-5 Index: 612-110-00-1	≥50 - ≤75	Acute Tox. 4, H302 Acute Tox. 3, H311 Acute Tox. 3, H331 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Chronic 2, H411	ATE [Oral] = 500 mg/ kg ATE [Dermal] = 300 mg/kg ATE [Inhalation (dusts and mists)] = 0.5 mg/l	[1]
benzyl alcohol	REACH #: 01-2119492630-38 EC: 202-859-9 CAS: 100-51-6 Index: 603-057-00-5	≥10 - ≤18	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Irrit. 2, H319	ATE [Oral] = 1230 mg/ kg ATE [Inhalation (dusts and mists)] = 1.5 mg/l	[1] [2
butanone	REACH #: 01-2119457290-43 EC: 201-159-0 CAS: 78-93-3 Index: 606-002-00-3	≥5.0 - ≤10	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	-	[1] [2
2,4,6-tris (dimethylaminomethyl) phenol	REACH #: 01-2119560597-27 EC: 202-013-9 CAS: 90-72-2	≥1.0 - ≤5.0	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1C, H314 Eye Dam. 1, H318	ATE [Oral] = 1200 mg/ kg ATE [Dermal] = 1280 mg/kg	[1]
N-(3-(trimethoxysilyl)propyl) ethylenediamine	EC: 217-164-6 CAS: 1760-24-3	≥1.0 - ≤5.0	Eye Dam. 1, H318 Skin Sens. 1B, H317 STOT SE 3, H335 See Section 16 for the full text of the H statements declared above.	-	[1]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

SECTION 4: First aid measures

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

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SIGMAGUARD CSF 650 HAF	RDENER GREEN			
SECTION 4: First aid	d measures			
Protection of first-aiders	suspected that fumes self-contained breath	ten involving any personal risk or without are still present, the rescuer should wea ing apparatus. It may be dangerous to th resuscitation. Wash contaminated clothi wear gloves.	r an appropriate mask or e person providing aid to	
4.2 Most important symptor Potential acute health effe		te and delayed		
Eye contact	: Causes serious eye o	damage.		
Inhalation	: Toxic if inhaled.			
Skin contact	: Causes severe burns allergic skin reaction.	5. Toxic in contact with skin. Defatting to	the skin. May cause an	
Ingestion	: Harmful if swallowed.			
Over-exposure signs/symp	<u>otoms</u>			
Eye contact	: Adverse symptoms r pain watering redness	may include the following:		
Inhalation	: No specific data.			
Skin contact	: Adverse symptoms r pain or irritation redness dryness cracking blistering may occur	may include the following:		
Ingestion	: Adverse symptoms r stomach pains	nay include the following:		
I.3 Indication of any immed	iate medical attention an	id special treatment needed		
Notes to physician		of decomposition products in a fire, symptomay need to be kept under medical surve		
Specific treatments	: No specific treatment	t		
SECTION 5: Firefigh	ting measures			
5.1 Extinguishing media				
		, <i>,</i> , , , , , , , , , , , , , , , , ,		

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.

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SECTION 5: Firefighting measures

5.3 Advice for firefighters		
Special precautions for fire-fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, pro	tective equipment and emergency procedures
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
6.3 Methods and material for o	containment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.
6.4 Reference to other sections	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

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SECTION 7: Handling and storage

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
7.2 Conditions for safe storage, including any incompatibilities	: Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

See Section 1.2 for Identified uses.

SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

Occupational exposure limits

Product/ingredient na	e Exp	Exposure limit values		
butanone		es.		
procedures S b s a b r a a b r a	Ference should be made to monitoring standard EN 689 (Workplace atmospheres - nhalation to chemical agents for comparis ategy) European Standard EN 14042 (Wo plication and use of procedures for the ass logical agents) European Standard EN 48 uirements for the performance of procedure ents) Reference to national guidance docu- nazardous substances will also be required	Guidance for the assessment of on with limit values and measu inkplace atmospheres - Guide for essment of exposure to chemic 2 (Workplace atmospheres - G res for the measurement of che uments for methods for the deter	of exposure rement or the cal and General emical	
	English (GB)	Egypt	6/14	

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8.2 Exposure controls		
Appropriate engineering controls	othe reco vapo vent	only with adequate ventilation. Use process enclosures, local exhaust ventilation or r engineering controls to keep worker exposure to airborne contaminants below an mmended or statutory limits. The engineering controls also need to keep gas, our or dust concentrations below any lower explosive limits. Use explosion-proof ilation equipment.
Individual protection measured	<u>ures</u>	
Hygiene measures	eatii App Con cont	th hands, forearms and face thoroughly after handling chemical products, before ng, smoking and using the lavatory and at the end of the working period. Topriate techniques should be used to remove potentially contaminated clothing. taminated work clothing should not be allowed out of the workplace. Wash aminated clothing before reusing. Ensure that eyewash stations and safety vers are close to the workstation location.
Eye/face protection	: Che	mical splash goggles and face shield.
Skin protection		
Hand protection	worn necc duri note glov prot freq (bre (bre The proc as in	mical-resistant, impervious gloves complying with an approved standard should be a at all times when handling chemical products if a risk assessment indicates this is essary. Considering the parameters specified by the glove manufacturer, check ing use that the gloves are still retaining their protective properties. It should be d that the time to breakthrough for any glove material may be different for different e manufacturers. In the case of mixtures, consisting of several substances, the ection time of the gloves cannot be accurately estimated. When prolonged or uently repeated contact may occur, a glove with a protection class of 6 akthrough time greater than 480 minutes according to EN 374) is recommended. In only brief contact is expected, a glove with a protection class of 2 or higher akthrough time greater than 30 minutes according to EN 374) is recommended. user must check that the final choice of type of glove selected for handling this uct is the most appropriate and takes into account the particular conditions of use, included in the user's risk assessment.
Gloves		e neoprene
Body protection	perf han stati shoi	onal protective equipment for the body should be selected based on the task being ormed and the risks involved and should be approved by a specialist before dling this product. When there is a risk of ignition from static electricity, wear anti- c protective clothing. For the greatest protection from static discharges, clothing and include anti-static overalls, boots and gloves. Refer to European Standard EN of further information on material and design requirements and test methods.
Other skin protection	base	opriate footwear and any additional skin protection measures should be selected ed on the task being performed and the risks involved and should be approved by a sialist before handling this product.
Respiratory protection	:	
Environmental exposure controls	they case	ssions from ventilation or work process equipment should be checked to ensure comply with the requirements of environmental protection legislation. In some s, fume scrubbers, filters or engineering modifications to the process equipment 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	: <mark>Ø</mark> reen.
Odour	: Aromatic. [Strong]
Odour threshold	: Not available.
Melting point/freezing point	1 · · · · · · · · · · · · · · · · · · ·

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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	 426°C (798.8°F) Stable under recommended storage and handling conditions (see Section 7). Not applicable.
Viscosity	: Kinematic (40°C): <14 mm²/s
Solubility(ies)	:
Media	Result
cold water	Not soluble

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

	:		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 1)	e: 3.7 (Air	= 1) (b	enzyl alcohol).	Weighte	ed averaç	ge: 3.32 (Air
Explosive properties	:	The product itself is vapour or dust with a	•		the formation	of an exp	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

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 Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878				
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SECTION 10: Stability and reactivity				
10.5 Incompatible materials : Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.				
10.6 Hazardous decomposition products : Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides Formaldehyde. metal oxide/oxides				
SECTION 11: Toxicological information				

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 Dus	sts and Rat	420 mg/m ³	4 hours
(cyclohexylamine)	mists	Dabbit		
	LD50 Dermal LD50 Oral	Rabbit Rat	>0.2 g/kg >0.32 g/kg	-
benzyl alcohol	LC50 Inhalation Dus		>4178 mg/m ³	4 hours
	mists			
	LD50 Dermal LD50 Oral	Rabbit	2000 mg/kg	-
butanone	LD50 Oral LD50 Dermal	Rat Rabbit	1.23 g/kg 6480 mg/kg	-
	LD50 Oral	Rat	2737 mg/kg	-
2,4,6-tris(dimethylaminomethyl)phenol	LD50 Dermal	Rat	1280 mg/kg	-
	LD50 Oral	Rat	1200 mg/kg	-
N-(3-(trimethoxysilyl)propyl) ethylenediamine	LD50 Dermal	Rabbit	>2000 mg/kg	-
engenediamine	LD50 Oral	Rat	2413 mg/kg	-
Conclusion/Summary : There	are no data available on t	he mixture itself.		I
Irritation/Corrosion				
Conclusion/Summary				
Skin : There	: There are no data available on the mixture itself.			
Eyes : There	are no data available on tł	ne mixture itself.		
Respiratory : There	are no data available on tl	ne mixture itself.		
Sensitisation				
Conclusion/Summary				
Skin : There	are no data available on t	he mixture itself.		
Respiratory : There	are no data available on t	he mixture itself.		
<u>Mutagenicity</u>				
Conclusion/Summary : There	are no data available on t	he mixture itself.		
Carcinogenicity				
Conclusion/Summary : There	are no data available on t	he mixture itself.		
Reproductive toxicity				
Conclusion/Summary : There	are no data available on t	he mixture itself.		
<u>Teratogenicity</u>				
Conclusion/Summary : There	are no data available on t	he mixture itself.		
Product/ingredient n	ame Ca	ategory Route	of Targ	jet organs
		exposu	re	
Information on likely : Not a	/ailable.	1	I	

routes of exposure

Potential acute health effects

Inhalation

: Toxic if inhaled.

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SECTION 11: Toxicol	ogical information	
Ingestion	: Harmful if swallowed.	
Skin contact	: Causes severe burns. Toxic in contact with skin allergic skin reaction.	. Defatting to the skin. May cause an
Eye contact	: Causes serious eye damage.	
Symptoms related to the ph	sical, chemical and toxicological characteristic	<u>s</u>
Inhalation	: No specific data.	
Ingestion	: Adverse symptoms may include the following: stomach pains	
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur	
Eye contact	: Adverse symptoms may include the following: pain watering redness ts as well as chronic effects from short and lone	a-term exposure
Short term exposure	as as well as chronic effects from short and for	<u>g-term exposure</u>
Potential immediate effects	: Not available.	
Potential delayed effects	: Not available.	
Long term exposure		
Potential immediate effects	: Not available.	
Potential delayed effects	: Not available.	
Potential chronic health effe	<u>cts</u>	
Not available.		
Conclusion/Summary	: Not available.	
General	: Prolonged or repeated contact can defat the skir dermatitis. Once sensitized, a severe allergic re- exposed to very low levels.	
Carcinogenicity	: No known significant effects or critical hazards.	
Mutagenicity	: No known significant effects or critical hazards.	
Reproductive toxicity	: No known significant effects or critical hazards.	
Other information	: Not available.	

Prolonged or repeated contact may dry skin and cause irritation. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapour/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Trimethoxysilanes are capable of forming methanol if hydrolyzed or ingested. If swallowed, methanol may be harmful or fatal or cause blindness. Contains a substance that may emit formaldehyde if stored beyond its shelf life and/or during cure at curing temperatures greater than 60C/140F. Avoid contact with skin and clothing. Exposure to amine vapor has been reported to cause transient corneal edema described as blue haze, halo effect, foggy or blurred vision for several hours. This condition is typically temporary and does not cause permanent visual effects. When the proper eye protection specified in Section 8 is worn, exposure is significantly reduced and the condition has not been observed.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

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SECTION 11: Toxicological information

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure	
2,4,6-tris(dimethylaminomethyl)phenol N-(3-(trimethoxysilyl)propyl)ethylenediamine	Acute LC50 >100 mg/l Acute LC50 >100 mg/l EC50 597 mg/l	Daphnia Fish Fish	48 hours 96 hours 96 hours	
Conclusion/Summary : There are no data available on the mixture itself.				

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
2,4,6-tris (dimethylaminomethyl)phenol	OECD 301D Ready Biodegradability - Closed Bottle Test	4 % - Not readily - 28 day	s -	-
Conclusion/Summary : There are no data available on the mixture itself.				

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
benzyl alcohol 2,4,6-tris(dimethylaminomethyl)phenol	-	-	Readily Not readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine)	1.8	-	Low
benzyl alcohol	0.87	-	Low
butanone	0.3	-	Low
2,4,6-tris(dimethylaminomethyl)phenol	0.219	-	Low

12.4 Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	
Mobility	: Not available.

12.5 Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

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SECTION 13: Disposal considerations

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

13.1 Waste treatment methods

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

European waste catalogue (EWC)

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

Packaging

Methods of disposal

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

Type of packaging	European waste catalogue (EWC)		
Container	15 01 06	mixed packaging	
Special precautions	taken when Empty conta residues ma Do not cut, v	al 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. ainers or liners may retain some product residues. Vapour from product ay create a highly flammable or explosive atmosphere inside the container. weld or grind used containers unless they have been cleaned thoroughly wooid dispersal of spilt material and runoff and contact with soil, waterways, sewers.	

SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number or ID number	UN2922	UN2922	UN2922
14.2 UN proper shipping name	CORROSIVE LIQUID, TOXIC, N.O.S. (2,2'-dimethyl-4,4'- methylenebis (cyclohexylamine), 2,4,6-tris (dimethylaminomethyl)phenol)	CORROSIVE LIQUID, TOXIC, N.O.S.	Corrosive liquid, toxic, n.o.s.
14.3 Transport hazard class(es)	8 (6.1)	8 (6.1)	8 (6.1)
14.4 Packing group	11	II	Π
14.5 Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	(2,2'-dimethyl-4,4'- methylenebis (cyclohexylamine))	Not applicable.

2020/878	
	D00001011160 Date of issue/Date of revision : 27 August 2024
SIGMAGUARD	CSF 650 HARDENER GREEN
SECTION 1	4: Transport information
Additional infor	
ADR/RID	 The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.
Tunnel code	: (E)
IMDG IATA	 The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. The environmentally hazardous substance mark may appear if required by other transportation regulations.
14.6 Special pre user	cautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
14.7 Transport i according to IM instruments	
SECTION 1	5: Regulatory information
15.1 Safety, hea	Ith and environmental regulations/legislation specific for the substance or mixture
EU Regulation	(EC) No. 1907/2006 (REACH)
<u>Annex XIV - L</u>	ist of substances subject to authorisation
Annex XIV	
None of the c	omponents are listed.
Substances	of very high concern
None of the c	omponents are listed.
Annex XVII -	
on the manuf placing on th	
· · ·	
and use of ce	
and use of ce dangerous su	ibstances,
dangerous su mixtures and	
dangerous su mixtures and	articles and international regulations.
dangerous su mixtures and <u>Other national</u> Explosive pre <u>Ozone depleti</u>	articles and international regulations.
dangerous su mixtures and <u>Other national</u> Explosive pre	articles and international regulations. cursors : Not applicable.
dangerous su mixtures and <u>Other national</u> Explosive pre <u>Ozone depleti</u>	articles and international regulations. cursors : Not applicable. ng substances (1005/2009/EU)

Indicates information that	has changed from previously issued version.
Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	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	

Code : 00000101116	0	Date of issue/Date of revision	: 27 August 2024
SIGMAGUARD CSF 650 HAR	DENER GREEN		
SECTION 16: Other i	nformation		
SECTION 18. Other			
H226 Flammable H302 Harmful if s H311 Toxic in col H312 Harmful in H314 Causes sev H317 May cause H318 Causes ser H319 Causes ser H319 Causes ser H331 Toxic if inha H332 Harmful if in H335 May cause H336 May cause H411 Toxic to aq EUH066 Repeated e		ntact with skin. contact with skin. vere skin burns and eye damage. an allergic skin reaction. ious eye damage. ious eye irritation. aled. haled. respiratory irritation. drowsiness or dizziness. uatic life with long lasting effects. xposure may cause skin dryness or cracking.	
Full text of classifications [CLP/GHS]	: Acute Tox. 3 Acute Tox. 4 Aquatic Chronic 2 Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Skin Corr. 1A Skin Corr. 1C Skin Sens. 1 Skin Sens. 1B STOT SE 3	ACUTE TOXICITY - Category 3 ACUTE TOXICITY - Category 4 LONG-TERM (CHRONIC) AQUAT SERIOUS EYE DAMAGE/EYE IRF SERIOUS EYE DAMAGE/EYE IRF FLAMMABLE LIQUIDS - Category FLAMMABLE LIQUIDS - Category SKIN CORROSION/IRRITATION - SKIN CORROSION/IRRITATION - SKIN SENSITISATION - Category SKIN SENSITISATION - Category SPECIFIC TARGET ORGAN TOX EXPOSURE - Category 3	RITATION - Category 1 RITATION - Category 2 3 Category 1A Category 1C 1 1B
<u>History</u>			
Date of issue/ Date of revision	: 27 August 2024		
Date of previous issue	: 18 June 2024		
Prepared by	: EHS		
Version	: 1.01		
D ¹ 1 1			

<u>Disclaimer</u>

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