SAFETY DATA SHEET

Date of issue/Date of revision

: 7 November 2021

Version : 12



United

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

1.1 Product identifier

Product name	: NOVAGUARD 200/840/890 HARDENER
Product code	: 00330663

Other means of identification

Not available.

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

1.3 Details of the supplier of the safety data sheet

PPG Coatings Belgium BV/SRL Tweemontstraat 104 B-2100 Deurne Belgium Telephone +32-33606311 Fax +32-33606435

- e-mail address of person
- : Product.Stewardship.EMEA@ppg.com

responsible for this SDS

National contact

PPG Architectural Coatings UK Ltd, Huddersfield Road, Birstall, West Yorkshire WF17 9XA, Tel: +44 (0) 1924 354000

1.4 Emergency telephone number

Supplier

+31 20 4075210

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

: Mixture **Product definition** Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] Acute Tox. 4, H302 Acute Tox. 3, H311

Acute Tox. 3, H331 Skin Corr. 1A, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 2, H411

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SECTION 2: Hazards identification

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

Signal word

Hazard pictograms



Hazard statements	 Farmful 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. Avoid release to the environment.
Response	: Collect spillage. IF INHALED: Immediately call a POISON CENTER or doctor. IF SWALLOWED: Immediately call a POISON CENTER or doctor. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
Storage	: Not applicable.
Disposal	: Not applicable.
	₱280, P273, P391, P304 + P310, P301 + P310, P303 + P361 + P353
Hazardous ingredients	 2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine) N-(3-(trimethoxysilyl)propyl)ethylenediamine 2,4,6-tris(dimethylaminomethyl)phenol
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	ients
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 vPvB.
Other hazards which do not result in classification	: None known.

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Туре

[1]

[1]

[1]

[1]

SECTION 3: Composition/information on ingredients

3.2 Mixtures :	Mixture		Classifietien
Product/ingredient name	Identifiers	% by weight	<u>Classification</u> Regulation (EC) No. 1272/2008 [CLP]
2'-dimethyl-4,4'-methylenebis (cyclohexylamine)	EC: 229-962-1 CAS: 6864-37-5 Index: 612-110-00-1	≥75 - ≤90	Acute Tox. 4, H302 Acute Tox. 3, H311 Acute Tox. 3, H331 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Chronic 2, H411
benzyl alcohol	REACH #: 01-2119492630-38 EC: 202-859-9 CAS: 100-51-6 Index: 603-057-00-5	≥10 - ≤15	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Irrit. 2, H319
N-(3-(trimethoxysilyl)propyl) ethylenediamine	EC: 217-164-6 CAS: 1760-24-3	≥1.0 - ≤5.0	Acute Tox. 4, H332 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412
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 - ≤3.5	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1B, H317
			See Section 16 for the full text of the H statements declared above.

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

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

[6] Additional disclosure due to company policy

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

SUB codes represent substances without registered CAS Numbers.

SECTION 4: First aid measures

4.1 Description of first aid measures

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

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SECTION 4: First aid	d measures
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
4.2 Most important sympton	ns and effects, both acute and delayed
Potential acute health effect	<u>ets</u>
Eye contact	: Causes serious eye damage.
Inhalation	: Toxic if inhaled.
Skin contact	: Causes severe burns. Toxic in contact with skin. May cause an allergic skin reaction.
Ingestion	: Harmful if swallowed.
Over-exposure signs/symp	<u>otoms</u>
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains
4.3 Indication of any immedi	iate medical attention and special treatment needed
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.
SECTION 5: Firefigh	ting measures
5.1 Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
5.2 Special hazards arising f	from the substance or mixture
Hazards from the	: In a fire or if heated, a pressure increase will occur and the container may burst. This
substance or mixture	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	: Decomposition products may include the following materials: carbon oxides

carbon oxides nitrogen oxides metal oxide/oxides Formaldehyde.

5.3 Advice for firefighters

products

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SECTION 5: Firefighting measure	es	

Special precautions for	: Promptly isolate the scene by removing all persons from the vicinity of the incident if
fire-fighters	there is a fire. No action shall be taken involving any personal risk or without suitable
	training.
Special protective	: Fire-fighters should wear appropriate protective equipment and self-contained breathing
equipment for fire-fighters	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	otective 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. 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. 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. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spill product.
6.4 Reference to other sections	 See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapour of mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.	Protective measures	ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be
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SECTION 7: Handli	ng and storage
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 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. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept uprigh to prevent leakage. Do not store in unlabelled containers. Use appropriate containmer to avoid environmental contamination. See Section 10 for incompatible materials befor 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

No exposure limit value known.

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
2,2'-dimethyl-4,4'- methylenebis (cyclohexylamine)	DNEL	Long term Dermal	0.06 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	0.6 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	0.96 mg/m ³	Workers	Local
benzyl alcohol	DNEL	Long term Oral	4 mg/kg bw/day	General population	Systemic
-	DNEL	Long term Dermal	4 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	5.4 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	8 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Oral	20 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	20 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	22 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	27 mg/m ³	General population	Systemic
	DNEL	Short term Dermal	40 mg/kg bw/day	Workers	Systemic
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SECTION 8: Exposure controls/personal protection

	DNEL	Short term Inhalation	110 mg/m³	Workers	Systemic
N-(3-(trimethoxysilyl)propyl)	DNEL	Long term Oral	2.5 mg/kg bw/day	General population	Systemic
ethylenediamine					-
	DNEL	Long term Dermal	2.5 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	5 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	5 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	8.7 mg/m ³	General population	Systemic
	DNEL	Short term Dermal	17 mg/kg bw/day	General population	
	DNEL	Long term Inhalation	35.3 mg/m ³	Workers	Systemic
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PNECs

PNECs - Not available.

English (GB)	United Kingdom (UK) 7/1	5
Respiratory protection	: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respir complying with an approved standard if a risk assessment indicates this is necessa Wear a respirator conforming to EN140. Filter type: organic vapour (Type A) and particulate filter P3	
Other skin protection	Appropriate footwear and any additional skin protection measures should be select based on the task being performed and the risks involved and should be approved a specialist before handling this product.	
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 befor handling this product. 	
Gloves	: nitrile neoprene	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should worn at all times when handling chemical products if a risk assessment indicates the is necessary. Considering the parameters specified by the glove manufacturer, che 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 differ 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 u as included in the user's risk assessment.	iis eck rent e d.
Skin protection		
Eye/face protection	: Chemical splash goggles and face shield. Use eye protection according to EN 166	
Individual protection meas Hygiene measures	 Wash hands, forearms and face thoroughly after handling chemical products, befor 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. 	
Individual weater tion weater	any recommended or statutory limits.	
Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilati or other engineering controls to keep worker exposure to airborne contaminants be	
8.2 Exposure controls		

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2015/830							
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SECTION 8: Exposure controls	s/personal protection						

controis/p rsonal protection

: Emissions from ventilation or work process equipment should be checked to ensure **Environmental exposure** they comply with the requirements of environmental protection legislation. In some controls cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance								
Physical state	:	Liquid.						
Colour	:	Colourless.						
Odour	:	Amine-like. [Strong]						
Odour threshold	:	Not available.						
рН	:	insoluble in water.						
Melting point/freezing point	:	May start to solidify at the following temperature: $-7.1^{\circ}C$ (19.2°F) This is based on data for the following ingredient: 2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine). Weighted average: $-8.53^{\circ}C$ (16.6°F)						
Initial boiling point and boiling range	:	>37.78°C						
Flash point	:	Closed cup: 105°C						
Evaporation rate	:	0.007 (benzyl alcoho	ol) compai	ed with	butyl acetate			
Flammability (solid, gas)	:	liquid	, .		-			
Upper/lower flammability or explosive limits	:	Greatest known rang	ge: Lower	1.3% L	Jpper: 13% (b	enzyl alc	ohol)	
Vapour pressure	:		Vapor	ur Press	sure at 20°C	Vapour pressure at 50°		
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
		✓-(3-(trimethoxysilyl) propyl)ethylenediamine	0.3000246	0.04				
Vapour density	:	Highest known value	e: 3.7 (Air	= 1) (b	enzyl alcohol).			
Relative density	:	0.97						
Solubility(ies)	:	Insoluble in the follow	wing mate	rials: co	ld water.			
Partition coefficient: n-octanol/ water	:	Not applicable.						
Auto-ignition temperature	:	426°C (798.8°F)						
Decomposition temperature	1	Stable under recomm	mended s	torage a	nd handling co	onditions	(see Sec	tion 7).

- 2 Kinematic (40°C): <14 mm²/s
 - The product itself is not explosive, but the formation of an explosible mixture of 2 vapour or dust with air is possible.
- **Oxidising properties**

Explosive properties

Viscosity

9.2 Other information

No additional information.

: Product does not present an oxidizing hazard.

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.
10.5 Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
10.6 Hazardous decomposition products	: Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides Formaldehyde. metal oxide/oxides

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2,2'-dimethyl-4,4'-methylenebis	LC50 Inhalation Dusts and	Rat	420 mg/m ³	4 hours
(cyclohexylamine)	mists		U U	
	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		C C	
	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1.23 g/kg	-
N-(3-(trimethoxysilyl)propyl) ethylenediamine	LD50 Oral	Rat	2413 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	-

Conclusion/Summary

: There are no data available on the mixture itself.

Acute toxicity estimates

Route	ATE value
Øral	583.19 mg/kg
Dermal	374.21 mg/kg
Inhalation (vapours)	317.46 mg/l
Inhalation (dusts and mists)	0.6 mg/l

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2,4,6-tris(dimethylaminomethyl)phenol	Skin - Visible necrosis	Rabbit	-	4 hours	7 days
Conclusion/Summary					

Skin

Eyes

: There are no data available on the mixture itself.

- : There are no data available on the mixture itself.
- Respiratory : There are no data available on the mixture itself.

Sensitisation

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SECTION 11: Toxicological information

exposure exposure Z4.6-tris(dimethylaminomethyl)phenol skin Guinea pig Sensitising Conclusion/Summary Skin Guinea pig Sensitising Skin : There are no data available on the mixture itself. Respiratory : There are no data available on the mixture itself. Conclusion/Summary : There are no data available on the mixture itself. Carcinogenicity Conclusion/Summary : There are no data available on the mixture itself. Reproductive toxicity Conclusion/Summary : There are no data available on the mixture itself. Interatogenicity Conclusion/Summary : There are no data available on the mixture itself. Specific target organ toxicity (single exposure) Not available. Specific target organ toxicity (repeated exposure) Not available. Not available. Information on likely : Not available. Inhalation : Toxic if inhaled. Ingestion : Harmful if swallowed. Skin 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	ult
Skin : There are no data available on the mixture itself. Respiratory : There are no data available on the mixture itself. Mutagenicity : Conclusion/Summary : There are no data available on the mixture itself. Carcinogenicity : There are no data available on the mixture itself. Conclusion/Summary : There are no data available on the mixture itself. Reproductive toxicity : There are no data available on the mixture itself. Conclusion/Summary : There are no data available on the mixture itself. Conclusion/Summary : There are no data available on the mixture itself. Conclusion/Summary : There are no data available on the mixture itself. Specific target organ toxicity (single exposure) Not available. Not available. : Specific target organ toxicity (repeated exposure) Not available. Not available. : Information on likely : Not available. Information : Toxic if inhaled. Ingestion : Toxic if inhaled. Ingestion : Causes severe burns. Toxic in contact with skin. May cause an allergic skin re Eye contact : Causes serious eye damage. Symptoms related to the physical, chemical and toxicological characteristics <th></th>	
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Mutagenicity Conclusion/Summary : There are no data available on the mixture itself. Carcinogenicity Conclusion/Summary : There are no data available on the mixture itself. Reproductive toxicity Conclusion/Summary : There are no data available on the mixture itself. Teratogenicity Conclusion/Summary : There are no data available on the mixture itself. Specific target organ toxicity (single exposure) Not available. Specific target organ toxicity (repeated exposure) Not available. Specific target organ toxicity (repeated exposure) Not available. Specific target organ toxicity (repeated exposure) Not available. Information on likely : Not available. routes of exposure Potential acute health effects Inhalation : Toxic if inhaled. Ingestion : Harmful if swallowed. Skin contact : Causes severe burns. Toxic in contact with skin. May cause an allergic skin re Eye contact : Causes severe burns. Toxic in contact with skin. May cause an allergic skin re Eye contact : Causes severe burns. Toxic in contact with skin. May cause an allergic skin re Eye contact : No specific data. Ingestion : No specific data. Ingestion : Adverse symptoms may include the following: stomach pains Skin contact : Adverse symptoms may include the following: pain or irritation redness blistering may occur Eye contact : Adverse symptoms may include the following: pain or irritation redness	
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redness blistering may occur Eye contact : Adverse symptoms may include the following: pain	
Eye contact : Adverse symptoms may include the following: pain	
pain	
watering	
redness	
Delayed and immediate effects as well as chronic effects from short and long-term exposure	
Short term exposure	
Potential immediate : Not available. effects	
Potential delayed effects : Not available.	
Long term exposure	

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SECTION 11: Toxico	lo	gical information
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health eff	ect	<u>s</u>
Not available.		
Conclusion/Summary	:	Not available.
General	:	Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	1	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.

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.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name		Result	Species	Exposure
2,4,6-tris(dimethylaminomethyl)phenc	I	Acute LC50 175 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
▶ Penzyl 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
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 Other adverse effects		No known significant effects or critical hazards.
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English	(GB)
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United Kingdom (UK)

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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

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 catalog	j <u>ue (EWC)</u>

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 should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt		

14. Transport information

•				
	ADR/RID	ADN	IMDG	IATA
14.1 UN number	UN2922	UN2922	UN2922	UN2922
14.2 UN proper shipping name	CORROSIVE LIQUID, TOXIC, N.O.S. (methanol)	CORROSIVE LIQUID, TOXIC, N.O.S. (methanol)	CORROSIVE LIQUID, TOXIC, N.O.S. (methanol)	CORROSIVE LIQUID, TOXIC, N.O.S. (methanol)
14.3 Transport hazard class(es)	8 (6.1)	8 (6.1)	8 (6.1)	8 (6.1)
14.4 Packing group	II	II	II	II
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	Not applicable.	(2,2'-dimethyl-4,4'- methylenebis (cyclohexylamine))	Not applicable.

Additional information

ADR/RID

: The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.

material and runoff and contact with soil, waterways, drains and sewers.

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14. Trai	nsport infor	mation
ADN	: The enviro ≤5 kg.	onmentally hazardous substance mark is not required when transported in sizes of \leq 5 L o
IMDG	: The marin	ne pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.
IATA	: The enviro regulation	onmentally hazardous substance mark may appear if required by other transportation is.
4.6 Specia Iser	l precautions 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.
4.7 Transp according t nstruments		: Not applicable.
SECTIO	N 15: Regulat	tory information
5.1 Safety,	health and enviro	onmental regulations/legislation specific for the substance or mixture
EU Regula	tion (EC) No. 1907	<u>7/2006 (REACH)</u>
<u>Annex XI</u>	V - List of substar	nces subject to authorisation
Annex)	<u>(IV</u>	
None of	the components ar	e listed.
<u>Substar</u>	nces of very high o	<u>concern</u>
None of	the components ar	e listed.
	/II - Restrictions	
	anufacture,	
	on the market	
	of certain	
	us substances, and articles	
	oleting substances	c (1005/2009/ELI)
Not listed		<u>s (1005/2009/E0)</u>
<u>Seveso Di</u>		
•		der the Seveso Directive.
<u>Danger</u>	<u>criteria</u>	
Catego	ry	
H2 E2		
5.2 Chemic ssessment	-	: No Chemical Safety Assessment has been carried out.
SECTIO	N 16: Other in	nformation
		as changed from previously issued version.

Abbreviations and acronyms

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SECTION 16: Other information

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

PBT = Persistent, Bioaccumulative and Toxic

vPvB = Very Persistent and Very Bioaccumulative

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

IMDG = International Maritime Dangerous Goods

IATA = International Air Transport Association

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification	
Acute Tox. 4, H302	Calculation method	
Acute Tox. 3, H311	Calculation method	
Acute Tox. 3, H331	Calculation method	
Skin Corr. 1A, H314	Calculation method	
Eye Dam. 1, H318	Calculation method	
Skin Sens. 1, H317	Calculation method	
Aquatic Chronic 2, H411	Calculation method	

Full text of abbreviated H statements

⊮ 302	Harmful if swallowed.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

Acute Tox. 3	ACUTE TOXICITY - Category 3
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Skin Corr. 1A	SKIN CORROSION/IRRITATION - Category 1A
Skin Corr. 1C	SKIN CORROSION/IRRITATION - Category 1C
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1B	SKIN SENSITISATION - Category 1B

<u>History</u>

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Date of previous issue	: 17 June 2019
Prepared by	: EHS
Version	: 12
<u>Disclaimer</u>	

English (GB)

Conforms to Regulation	(EC) No. 1907/2	006 (REACH), Annex II, a	as amended by Re	gulation (EU) No. 2015/830
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SECTION 16: Other information

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by us, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.