# **SAFETY DATA SHEET**

Date of issue/Date of revision

: 22 September 2022 Version : 4.01



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

1.1 Product identifier		
Product name :	:	NOVAGUARD 840 HARDENER CLEAR
Product code :	:	00217574
Product type :	:	Liquid.
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

Sigma Paint Saudi Arabia Ltd. PO Box 7509, Dammam 3147 Saudi Arabia Tel: 00966 138 47 31 00 Fax: 00966 138 47 17 34	
e-mail address of person responsible for this SDS	: PS.ACEMEA@ppg.com
1.4 Emergency telephone number	: 00966 138473100 extn 1001

# **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] Acute Tox. 4, H302 Acute Tox. 3, H311 Acute Tox. 3, H331 Skin Corr. 1A, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 2, H411 The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements

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NOVAGUARD 840 HARDENE	R CLEAR
SECTION 2: Hazards	identification
Hazard pictograms	
Signal word	: Danger
Hazard statements	<ul> <li>Harmful if swallowed.</li> <li>Toxic in contact with skin or if inhaled.</li> <li>Causes severe skin burns and eye damage.</li> <li>May cause an allergic skin reaction.</li> <li>Toxic to aquatic life with long lasting effects.</li> </ul>
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.
Storage	: Not applicable.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
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	ents
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.

# **SECTION 3: Composition/information on ingredients**

3.2 Mixtures

: Mixture

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NOVAGUARD 840 HARDEN	IER CLEAR				
SECTION 3: Compo	osition/informat	tion on ir	ngredients		
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	≥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	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 - ≤16	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]
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	ATE [Inhalation (vapours)] = 11 mg/l	[1]
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 - ≤3.7	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1C, H314 Eye Dam. 1, H318 See Section 16 for the full text of the H statements declared	ATE [Oral] = 1200 mg/ kg ATE [Dermal] = 1280 mg/kg	[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.

Type

**[7]** Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

#### SUB codes represent substances without registered CAS Numbers.

# **SECTION 4: First aid measures**

4.1 Description of first aid m	neasures
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	<ul> <li>If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.</li> </ul>
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.

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SECTION 4: Fir	st aid measures			
4.2 Most important sy	ymptoms and effects, both a	cute and delayed		
Potential acute heal	<u>th effects</u>			
Eye contact	: Causes serious e	ye damage.		
Inhalation	: Toxic if inhaled.			
Skin contact	: Causes severe bu	Irns. Toxic in contact with skin. May cause	an allergic skin reaction	
Ingestion	: Harmful if swallow	ved.		
Over-exposure sign	<u>s/symptoms</u>			
Eye contact	: Adverse sympton pain watering redness	ns may include the following:		
Inhalation	: No specific data.			
Skin contact	: Adverse sympton pain or irritation redness blistering may occ	ns may include the following: cur		
Ingestion		ns may include the following:		

#### 4.3 Indication of any immediate 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: Firefighting 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 fr	om the substance or mixture
Hazards from the substance or mixture	: In a fire or if heated, a pressure increase will occur and the container may burst. 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.
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.
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.

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# **SECTION 6: Accidental release measures**

6.1 Personal precautions, pro	ote	ctive 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	со	ntainment 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

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. 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.
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.

Conforms to Regulation (EC	No. 1907/2006 (REACH), Annex	I	
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SECTION 7: Handlin	g and storage		
7.2 Conditions for safe storage, including any incompatibilities	cool and well-ventilated area, a food and drink. Store locked u for use. Containers that have to prevent leakage. Do not sto	mperatures: 0 to 35°C (32 to 95 original container protected fro away from incompatible materia p. Keep container tightly closed been opened must be carefully ore in unlabelled containers. Us ination. See Section 10 for inco	m direct sunlight in a dry, ls (see Section 10) and d and sealed until ready resealed and kept upright e appropriate containment
7.3 Specific end use(s)			
See Section 1.2 for Identified	Ses.		
Recommendations	: Not available.		
Industrial sector specific	: Not available.		

# **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

solutions

#### **Occupational exposure limits**

Product/ingredier	nt name	Exposure limit values
benzyl alcohol		IPEL (-). TWA: 5 ppm STEL: 10 ppm
Recommended monitoring procedures	atmosphere or bi the ventilation or protective equipr following: Europ assessment of er values and meas atmospheres - G exposure to cher atmospheres - G measurement of	ntains ingredients with exposure limits, personal, workplace ological monitoring may be required to determine the effectiveness of other control measures and/or the necessity to use respiratory nent. Reference should be made to monitoring standards, such as the ean Standard EN 689 (Workplace atmospheres - Guidance for the xposure by inhalation to chemical agents for comparison with limit surement strategy) European Standard EN 14042 (Workplace uide for the application and use of procedures for the assessment of nical and biological agents) European Standard EN 482 (Workplace eneral requirements for the performance of procedures for the chemical agents) Reference to national guidance documents for determination of hazardous substances will also be required.
8.2 Exposure controls		
Appropriate engineering controls		equate ventilation. Use process enclosures, local exhaust ventilation or g controls to keep worker exposure to airborne contaminants below any r statutory limits.
Individual protection measur	res	
Hygiene measures	eating, smoking a Appropriate tech Contaminated we contaminated clo	earms and face thoroughly after handling chemical products, before and using the lavatory and at the end of the working period. niques should be used to remove potentially contaminated clothing. ork clothing should not be allowed out of the workplace. Wash othing before reusing. Ensure that eyewash stations and safety the to the workstation location.
Eye/face protection Skin protection	: Chemical splash	goggles and face shield.

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SECTION 8: Exposi	ure controls/pe	ersonal protection	
	worn at all time necessary. Co during use that noted that the t glove manufac protection time frequently repe (breakthrough When only brie (breakthrough The user must product is the r as included in t	tant, impervious gloves complying with an appro- es when handling chemical products if a risk ass onsidering the parameters specified by the gloves the gloves are still retaining their protective pro- time to breakthrough for any glove material may turers. In the case of mixtures, consisting of se of the gloves cannot be accurately estimated. eated contact may occur, a glove with a protection time greater than 480 minutes according to EN of contact is expected, a glove with a protection time greater than 30 minutes according to EN 3 check that the final choice of type of glove sele most appropriate and takes into account the par the user's risk assessment.	essment indicates this is manufacturer, check perties. It should be be different for different veral substances, the When prolonged or on class of 6 374) is recommended. class of 2 or higher 74) is recommended. cted for handling this
Gloves	: nitrile neopren	e	
Body protection		ctive equipment for the body should be selected the risks involved and should be approved by a roduct.	
Other skin protection	based on the ta	otwear and any additional skin protection measu ask being performed and the risks involved and re handling this product.	
Respiratory protection	hazards of the are exposed to certified respira	ection must be based on known or anticipated exproduct and the safe working limits of the select occoncentrations above the exposure limit, they rators. Use a properly fitted, air-purifying or air-feed standard if a risk assessment indicates this i	ted respirator. If workers nust use appropriate, ed respirator complying
Environmental exposure controls	they comply wit cases, fume so	n ventilation or work process equipment should th the requirements of environmental protection crubbers, filters or engineering modifications to t ary to reduce emissions to acceptable levels.	legislation. In some

#### 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

	English (G	3)	Saudi Ar	abia 7/13
Decomposition temperature pH	: insoluble in water.	storage and		
Decomposition tomporature	<ul> <li>Ż'-dimethyl-4,4'-methylenebis (cyclohexylamine)</li> <li>Stable under recommended</li> </ul>	275	527	litions (coo Section 7)
Auto-ignition temperature	: Ingredient name	°C	°F	Method
Flammability (solid, gas) Upper/lower flammability or explosive limits	: liquid : Greatest known range: Lowe	er: 1.3% Upp	ber: 13% (ben	zyl alcohol)
Initial boiling point and boiling range	: >37.78°C			
Melting point/freezing point	: May start to solidify at the fo data for the following ingredi Weighted average: -8.64°C	ent: 2,2'-dim		
Odour threshold	: Not available.			
Odour	: Amine-like. [Strong]			
Colour	: Colourless.			
Physical state	: Liquid.			
<u>Appearance</u>				

Conforms to Regulation (	EC) No. 19	07/2006 (REACH), A	nnex II						
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SECTION 9: Physi	cal and	chemicalpro	perties						
Viscosity	:	Kinematic (40°C): >2	21 mm²/s						
Viscosity	:	< 30 s (ISO 6mm)							
Solubility(ies)	:								
Media		Result							
old water		Not soluble							
Partition coefficient: n-o	octanol/ :	Not applicable.							
Vapour pressure	:		Vapou	ır Pres	sure at 20°C	Vap	our pres	sure at 50°C	
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
		Y-(3-(trimethoxysilyl) propyl)ethylenediamine	0.3000246	0.04					
Evaporation rate			0.007 (benzyl alcohol) compared with butyl acetate						
Relative density		0.97							
Vapour density		Highest known value	•	, ,	• •				
Explosive properties	:	Product does not pro		•					
Oxidising properties	:	Product does not pro	esent an o	xidizinę	g hazard.				
Particle characteristics		Net en elle elle							
Median particle size		Not applicable.							
9.2 Other information									
No additional information									
SECTION 10: Stat	ility and	d reactivity							
10.1 Reactivity	: No	specific test data rela	ated to rea	ctivity a	available for this	s produc	t or its ing	gredients.	
10.2 Chemical stability	: Th	e product is stable.							
10.3 Possibility of hazardous reactions	: Un	der normal conditions	s of storag	e and ι	use, hazardous	reaction	s will not	occur.	

11.1 Information on toxicological effects Acute toxicity

**SECTION 11: Toxicological information** 

**10.4 Conditions to avoid** 

**10.5 Incompatible materials** 

decomposition products

**10.6 Hazardous** 

Refer to protective measures listed in sections 7 and 8.

oxidising agents, strong alkalis, strong acids.

: When exposed to high temperatures may produce hazardous decomposition products.

: Depending on conditions, decomposition products may include the following materials:

: Keep away from the following materials to prevent strong exothermic reactions:

carbon oxides nitrogen oxides Formaldehyde. metal oxide/oxides

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# **SECTION 11: Toxicological information**

Product/ingredient name	Result	Species	Dose	Exposure
2,2'-dimethyl-4,4'-methylenebis (cyclohexylamine)	LC50 Inhalation Dusts and mists	Rat	420 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	>0.2 g/kg	-
	LD50 Oral	Rat	>0.32 g/kg	-
benzyl alcohol	LC50 Inhalation Dusts and mists	Rat	>4178 mg/m <sup>3</sup>	4 hours
	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.

#### Irritation/Corrosion

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

	E	nglish (GB)	Saudi Arabia	9/13
Eye contact	: Causes serious eye d	amage.		
Skin contact	: Causes severe burns	. Toxic in contact with	skin. May cause an allergic sk	in reaction.
Ingestion	: Harmful if swallowed.			
Inhalation	: Toxic if inhaled.			
Potential acute health eff	<u>fects</u>			
Information on likely routes of exposure	: Not available.			
Aspiration hazard Not available.				
<u>Specific target organ tox</u> Not available.	<u>xicity (repeated exposure)</u>			
Not available.				
Specific target organ tox				
Conclusion/Summary	: There are no data ava	ailable on the mixture it	self	
Conclusion/Summary <u>Teratogenicity</u>	: There are no data ava	allable on the mixture it	Seit.	
Reproductive toxicity	- <b>-</b>	9.11		
Conclusion/Summary	: There are no data ava	ailable on the mixture it	self.	
Carcinogenicity				
Conclusion/Summary	: There are no data ava	ailable on the mixture it	self.	
Mutagenicity				
Respiratory	: There are no data ava	ailable on the mixture it	self.	
Skin	: There are no data ava	ailable on the mixture it	self.	
Conclusion/Summary				
<u>Sensitisation</u>				
Eyes Respiratory	: There are no data ava			
Skin Evos	: There are no data ava	ilable on the mixture its		
Conclusion/Summary	. These are no date and		- 1 <b>f</b>	
Conclusion/Summers				

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# **SECTION 11: Toxicological information**

Symptoms related to the ph	ysical, 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 blistering may occur
Eye contact	: Adverse symptoms may include the following: pain watering redness
Delayed and immediate effe	cts as well as chronic effects from short and long-term exposure
<u>Short term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
<u>Long term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health effe	<u>acts</u>
Not available.	
<b>Conclusion/Summary</b>	: Not available.
General	: Once sensitized, a severe allergic reaction may occur when subsequently 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	

**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.

#### 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	
2,4,6-tris(dimethylaminomethyl)phenol	Acute LC50 175 mg/l	Fish	96 hours	
Conclusion/Summary : There are no data available on the mixture itself.				

: There are no data available on the mixture itself.

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# **SECTION 12: Ecological information**

#### 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
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.

# **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 designation		
waste paint and varnish containing organic solvents or other hazardous substances		
Ļ		
	on of waste should be avoided or minimised wherever possible. Waste ould be recycled. Incineration or landfill should only be considered when ot feasible.	
European waste catalogue (EWC)		
15 01 06	mixed packaging	
	: The generation packaging shore recycling is not	

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## **SECTION 13: Disposal considerations**

**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 material and runoff and contact with soil, waterways, drains and 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))	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	11	II
14.5 Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	(2,2'-dimethyl-4,4'- methylenebis (cyclohexylamine))	Not applicable.

#### Additional information

ADR/RID : The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.
 IMDG : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.
 IATA : The environmentally hazardous substance mark may appear if required by other transportation regulations.

**14.6 Special 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.

14.7 Transport in bulk	: Not applicable.
according to IMO	
instruments	

# **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Conforms to Regulation (EC	) No. 1907/2006 (REACH)	), Annex II	
Code : 00217574		Date of issue/Date of revision	: 22 September 2022
NOVAGUARD 840 HARDENI	ER CLEAR		
SECTION 15: Regula	atory information		
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.		
Other national and interna			
Ozone depleting substance	<u>ces (1005/2009/EU)</u>		
Not listed.			
15.2 Chemical safety assessment	: No Chemical Safety A	Assessment has been carried out.	
SECTION 16: Other	information		
Indicates information that	has changed from previou	isly issued version.	
Abbreviations and	: ATE = Acute Toxicity		
acronyms	1272/2008] DNEL = Derived No I EUH statement = CL	P-specific Hazard statement o Effect Concentration	ulation (EC) No.
Full text of abbreviated H statements	<ul> <li>H302 Harmful if swallowed.</li> <li>H311 Toxic in contact with skin.</li> <li>H312 Harmful in contact with skin.</li> <li>H314 Causes severe skin burns and eye damage.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H318 Causes serious eye damage.</li> <li>H319 Causes serious eye irritation.</li> <li>H331 Toxic if inhaled.</li> <li>H332 Harmful if inhaled.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> <li>H412 Harmful to aquatic life with long lasting effects.</li> </ul>		
Full text of classifications [CLP/GHS]	: Acute Tox. 3 Acute Tox. 4 Aquatic Chronic 2 Aquatic Chronic 3 Eye Dam. 1 Eye Irrit. 2 Skin Corr. 1A Skin Corr. 1C Skin Sens. 1	ACUTE TOXICITY - Category 3 ACUTE TOXICITY - Category 4 LONG-TERM (CHRONIC) AQUAT LONG-TERM (CHRONIC) AQUAT SERIOUS EYE DAMAGE/EYE IRR SERIOUS EYE DAMAGE/EYE IRR SKIN CORROSION/IRRITATION - SKIN CORROSION/IRRITATION - SKIN SENSITISATION - Category	IC HAZARD - Category 3 ITATION - Category 1 ITATION - Category 2 Category 1A Category 1C
<u>History</u>			
Date of issue/ Date of revision	: 22 September 2022		
Date of previous issue	: 7 November 2021		
Prepared by	: EHS		
Version	: 4.01		
<u>Disclaimer</u>			

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