

Date of issue/Date of revision

: 12 September 2022 Version



: 11.02

Denmark

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

1.1	Prod	luct ic	lentifier

Product name	:	NOVAGUARD 615/650 HARDENER
Product code	:	00330614
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 responsible for this SDS : Product.Stewardship.EMEA@ppg.com

1.4 Emergency telephone number

#### National advisory body/Poison Centre

- Telephone number
- : Poison Information Centre; emergency telephone, public + 45 82 12 12 12 (health sector +45 35 31 55 55)

## **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. 4, H312 Skin Corr. 1B, 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.

English (GB)

Denmark

1/17

Code	: 00330614	Date of issue/Date of revision	: 12 September 2022
NOVAGUARD 615/650 HARDENER			

## **SECTION 2: Hazards identification**

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

#### 2.2 Label elements Hazard pictograms

:		×
	$\mathbf{V}$	$\mathbf{V}$

Signal word	: Danger	
Hazard statements	<ul> <li>Harmful if swallowed or in contact with skin.</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.	
	P280, P273, P391, P304 + P310, P301 + P310, P501	
Hazardous ingredients	Fropylidynetrimethanol, propoxylated, reaction products with ammonia 3-aminomethyl-3,5,5-trimethylcyclohexylamine Epoxy Amine Resin 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	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.	

Code : 00330614 NOVAGUARD 615/650 HARDENER Date of issue/Date of revision

: 12 September 2022

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

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	% by weight	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Propylidynetrimethanol, propoxylated, reaction products with ammonia	REACH #: 01-2119556886-20 EC: 500-105-6 CAS: 39423-51-3	≥50 - ≤75	Acute Tox. 4, H302 Acute Tox. 4, H312 Eye Dam. 1, H318 Aquatic Chronic 2, H411	ATE [Oral] = 500 mg/ kg ATE [Dermal] = 1100 mg/kg	[1]
3-aminomethyl- 3,5,5-trimethylcyclohexylamine	REACH #: 01-2119514687-32 EC: 220-666-8 CAS: 2855-13-2 Index: 612-067-00-9	≥10 - ≤25	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317	ATE [Oral] = 1030 mg/ kg Skin Sens. 1, H317: C ≥ 0.001%	[1]
benzyl alcohol	REACH #: 01-2119492630-38 EC: 202-859-9 CAS: 100-51-6 Index: 603-057-00-5	≥10 - ≤25	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]
Epoxy Amine Resin	CAS: SUB114180	≥5.0 - ≤10	Eye Irrit. 2, H319 Skin Sens. 1, H317	-	[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 - ≤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]
salicylic acid	REACH #: 01-2119486984-17 EC: 200-712-3 CAS: 69-72-7 Index: 607-732-00-5	≥1.0 - <3.0	Acute Tox. 4, H302 Eye Dam. 1, H318 Repr. 2, H361d	ATE [Oral] = 891 mg/ kg	[1]
			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.

Туре

**M** Substance classified with a health or environmental hazard

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

SUB codes represent substances without registered CAS Numbers.

Code	: 00330614	Date of issue/Date of revision	: 12 September 2022
NOVAGUAR	D 615/650 HARDENER		

# **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	<ul> <li>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.</li> </ul>
Skin contact	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.</li> </ul>
Ingestion	: If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
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 symptoms and effects, both acute and delayed**

Potential acute health	effects
Eye contact	: Causes serious eye damage.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes severe burns. Harmful in contact with skin. May cause an allergic skin reaction.
Ingestion	: Harmful if swallowed.
Over-exposure signs/s	<u>ymptoms</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 imi	nediate medical attention and special treatment needed
Notes to physician	<ul> <li>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.</li> </ul>

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 from the substance or mixture

English (GB)	Denmark	4/17

Code : 00330614	Date of issue/Date of revision	: 12 September 2022
NOVAGUARD 615/650 HARDENER		

# SECTION 5: Firefighting measures

	-
:	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.
:	Decomposition products may include the following materials: carbon oxides nitrogen oxides
:	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.
:	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	otec	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	co	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.

Code : 0033061	4	Date of issue/Date of re	vision	: 12 September 2022
NOVAGUARD 615/650 H	IARDENER			

# **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. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. 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.
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 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**

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**

Code : 00330614

Date of issue/Date of revision

: 12 September 2022

NOVAGUARD 615/650 HARDENER

# **SECTION 8: Exposure controls/personal protection**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
Propylidynetrimethanol,	DNEL	Long term Dermal	1.6 mg/kg bw/day	Workers	Systemic
propoxylated, reaction		-			-
products with ammonia					
	DNEL	Long term Inhalation	14.1 mg/m <sup>3</sup>	Workers	Systemic
3-aminomethyl-	DNEL	Short term Inhalation	0.073 mg/m³	Workers	Local
3,5,5-trimethylcyclohexylamine			0.070	) A / a who a wa	Lasal
	DNEL DNEL	Long term Inhalation	0.073 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Oral	0.526 mg/kg bw/day	General population	
benzyl alcohol	DNEL	Long term Oral	4 mg/kg bw/day	General population	
	DNEL	Long term Dermal Long term Inhalation	4 mg/kg bw/day 5.4 mg/m³	General population General population	
	DNEL	Long term Dermal	8 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Oral	20 mg/kg bw/day	General population	
	DNEL	Short term Dermal	20 mg/kg bw/day	General population	
	DNEL	Long term Inhalation	22 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	27 mg/m <sup>3</sup>	General population	
	DNEL	Short term Dermal	40 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	110 mg/m <sup>3</sup>	Workers	Systemic
2,4,6-tris	DNEL	Long term Oral	0.075 mg/kg bw/day	General population	
(dimethylaminomethyl)phenol		5		- 11	,
	DNEL	Short term Dermal	0.075 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.075 mg/kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	0.13 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	0.13 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Dermal	0.15 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	0.53 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Dermal	0.6 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	2.1 mg/m <sup>3</sup>	Workers	Systemic
salicylic acid	DNEL	Long term Oral	1 mg/kg bw/day	General population	
	DNEL	Long term Dermal	1 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	2.3 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Oral	4 mg/kg bw/day	General population	
	DNEL	Long term Inhalation	4 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	5 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Inhalation	5 mg/m³	Workers	Systemic

#### **PNECs**

PNECs - Not available.

8.2 Exposure controls       Appropriate engineering controls       : If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.         Individual protection measures       : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.         Eye/face protection       : Chemical splash goggles and face shield. Use eye protection according to EN 166.         Skin protection       :	English (GB)	Denmark	7/17
Appropriate engineering controls: If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.Individual protection measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.Eye/face protection: Chemical splash goggles and face shield. Use eye protection according to EN 166.	Hand protection	:	
Appropriate engineering controls: If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.Individual protection measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.	Skin protection		
Appropriate engineering controls: If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.Individual protection measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety	Eye/face protection	: Chemical splash goggles and face shield. Use eye protection a	ccording to EN 166.
Appropriate engineering controls : If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.		: Wash hands, forearms and face thoroughly after handling chem eating, smoking and using the lavatory and at the end of the wor Appropriate techniques should be used to remove potentially con Contaminated work clothing should not be allowed out of the wo contaminated clothing before reusing. Ensure that eyewash state	king period. ntaminated clothing. rkplace. Wash
Appropriate engineering controls : If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to	Individual protection meas	ures	
		local exhaust ventilation or other engineering controls to keep we	orker exposure to

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU	J)
2020/878	

Code : 00330614 Date of issue/Date of revision

: 12 September 2022

**NOVAGUARD 615/650 HARDENER** 

# **SECTION 8: Exposure controls/personal protection**

		Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
Gloves	:	butyl rubber
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection		Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	:	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 respirator complying with an approved standard if a risk assessment indicates this is necessary. Wear a respirator conforming to EN140. Filter type: organic vapour (Type A) and particulate filter P3
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

# **SECTION 9: Physical and chemical properties**

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

#### 9.1 Information on basic physical and chemical properties

English (GB)	Denmark 8/17
Auto-ignition temperature	:
Flash point	: Closed cup: 114°C
Upper/lower flammability or explosive limits	: Greatest known range: Lower: 1.3% Upper: 13% (benzyl alcohol)
Flammability	: Not available.
Initial boiling point and boiling range	: >37.78°C
Melting point/freezing point	: May start to solidify at the following temperature: 8°C (46.4°F) This is based on data for the following ingredient: 3-aminomethyl-3,5,5-trimethylcyclohexylamine. Weighted average: -14.18°C (6.5°F)
Odour threshold	: Not available.
Odour	: Amine-like.
Colour	: Clear.
Physical state	: Liquid.
<u>Appearance</u>	

Code: 00330614Date of issue/Date of revision: 12 September 2022NOVAGUARD 615/650 HARDENER

# **SECTION 9: Physical and chemical properties**

		Ingredient name		°C	°F		Method		
		Propylidynetrimethanol, propylidynetrimethanol, products with an		320	608		EU A.15		
Decomposition temperature	:	Stable under recomm	mended st	orage a	nd handling c	onditio	ns (see Sec	tion 7).	
рН	1	Not applicable. insol	uble in wa	ter.					
Viscosity	:	Kinematic (40°C): >2	21 mm²/s						
Viscosity	:	30 - <40 s (ISO 6mn	n)						
Solubility(ies)	1								
Media		Result							
<mark>∕</mark> old water		Not soluble							
Partition coefficient: n-octanol/ water	:	Not applicable.							
Vapour pressure	:								
			Vapou	r Press	ure at 20°C	Va	pour press	our pressure at 50°(	
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
		Propylidynetrimethanol, propoxylated, reaction products with ammonia	5.12	0.68	EU A.4				
Evaporation rate	:	0.007 (benzyl alcoho	l) compar	ed with	butyl acetate				
•		0.007 (benzyl alcohc 0.98	ol) compar	ed with I	butyl acetate				
Relative density			, .			).			
Relative density Vapour density		0.98	e: 3.7 (Air not explos	= 1) (be ive, but	enzyl alcohol)		explosible n	nixture of	
Evaporation rate Relative density Vapour density Explosive properties Oxidising properties	::	0.98 Highest known value The product itself is	e: 3.7 (Air not explos air is possi	= 1) (be ive, but ble.	enzyl alcohol) the formatior		explosible n	nixture of	
Relative density Vapour density Explosive properties	::	0.98 Highest known value The product itself is vapour or dust with a	e: 3.7 (Air not explos air is possi	= 1) (be ive, but ble.	enzyl alcohol) the formatior		explosible n	nixture of	

#### 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.
10.5 Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.

English (GB)	Denmark	9/17
--------------	---------	------

Code	: 00330614	Date of issue/Date of revision	: 12 September 2022

NOVAGUARD 615/650 HARDENER

## **SECTION 10: Stability and reactivity**

10.6 Hazardous decomposition products

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

## **SECTION 11: Toxicological information**

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Propylidynetrimethanol, propoxylated, reaction products with ammonia	LD50 Dermal	Rabbit	0.4 g/kg	-
	LD50 Oral	Rat	0.22 g/kg	-
3-aminomethyl-	LC50 Inhalation Dusts and	Rat	>5.01 mg/l	4 hours
3,5,5-trimethylcyclohexylamine	mists			
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	1030 mg/kg	-
benzyl alcohol	LC50 Inhalation Dusts and	Rat	>4178 mg/m <sup>3</sup>	4 hours
•	mists		C C	
	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1.23 g/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	-
salicylic acid	LD50 Oral	Rat	0.891 g/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

#### **Conclusion/Summary**

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

: There are no data available on the mixture itself.

Respiratory

Skin Eyes

: There are no data available on the mixture itself.

### Sensitisation

Product/ingredient name	Route of exposure	Species	Result
aminomethyl-3,5,5-trimethylcyclohexylamine	skin	Guinea pig	Sensitising

Conclusion/Summary	
Skin	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
<b>Mutagenicity</b>	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
<b>Carcinogenicity</b>	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
Reproductive toxicity	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
<b>Teratogenicity</b>	
Conclusion/Summary	: There are no data available on the mixture itself.
Specific target organ toxi	

English (GB)	Denmark	10/17

Code : 00330614 NOVAGUARD 615/650 HARD	Date of issue/Date of revision : 12 September 2022 ENER
SECTION 11: Toxico	logical information
Not available.	
Specific target organ toxicit	v (repeated exposure)
Not available.	
Aspiration hazard	
Not available.	
Information on likely routes of exposure	: Not available.
Potential acute health effect	t <u>s</u>
Inhalation	: No known significant effects or critical hazards.
Ingestion	: Harmful if swallowed.
Skin contact	: Causes severe burns. Harmful in contact with skin. May cause an allergic skin reaction
Eye contact	: Causes serious eye damage.
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	<ul> <li>Adverse symptoms may include the following: pain watering redness</li> </ul>
Delayed and immediate effe	ects as well as chronic effects from short and long-term exposure
Short term exposure	
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>ects</u>
Conclusion/Summary	: Not available.
General	<ul> <li>Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.</li> </ul>
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.

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.

English (GB)	Denmark	11/17

Code	: 00330614	Date of issue/Date of revision	: 12 September 2022
NOVAGUARI	D 615/650 HARDENER		

# **SECTION 11: Toxicological information**

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 salicylic acid	Acute LC50 175 mg/l Acute EC50 1147.57 mg/l Fresh water Chronic NOEC 5.6 mg/l Fresh water	Fish Daphnia - Daphnia Iongispina - Neonate Daphnia - Daphnia magna - Neonate	96 hours 48 hours 21 days

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

#### 12.2 Persistence and degradability

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

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
benzyl alcohol	-	-	Readily

#### **12.3 Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Propylidynetrimethanol, propoxylated, reaction products with ammonia	-1.13	-	low
3-aminomethyl-3,5,5-trimethylcyclohexylamine	0.99 0.87	-	low
benzyl alcohol 2,4,6-tris(dimethylaminomethyl)phenol	0.219	-	low low
salicylic acid	2.21 to 2.26	-	low

# 12.4 Mobility in soilSoil/water partition<br/>coefficient (Koc): Not available.Mobility: Not available.

#### 12.5 Results of PBT and vPvB assessment

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

#### **12.6 Endocrine disrupting properties**

Not available.

#### 12.7 Other adverse effects

No known significant effects or critical hazards.

Code	: 00330614	Date of issue/Date of revision	: 12 September 2022

**NOVAGUARD 615/650 HARDENER** 

# **SECTION 13: Disposal considerations**

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

#### 13.1 Waste treatment methods

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

#### European waste catalogue (EWC)

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

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

Type of packaging		
Container		
Special precautions	taken wher Empty cont	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. Avoid dispersal of spilt d runoff and contact with soil, waterways, drains and sewers.

# 14. Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	UN3066	UN3066	UN3066	UN3066
14.2 UN proper shipping name	PAINT	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	8	8	8	8
14.4 Packing group	Ш	=	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.	(Polyoxy propylene diamine)	Not applicable.

#### Additional information

**ADR/RID** 

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

**Tunnel code** : (E)

Denmark	13/17
	Denmark

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation	(EU)
2020/878	

<mark>Code</mark> NOVAGUAF	: 00330614 RD 615/650 HARDE	Date of issue/Date of revision         : 12 September 2022           NER
14. Trai	nsport infor	mation
ADN	: The enviro ≤5 kg.	pnmentally hazardous substance mark is not required when transported in sizes of $\leq$ 5 L or
IMDG	: The marin	e pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.
ΙΑΤΑ	: The enviro regulation	onmentally hazardous substance mark may appear if required by other transportation s.
14.6 Specia user	I precautions for	: <b>Transport within user's premises:</b> 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 Maritin bulk accord instruments	-	: Not applicable.

# **SECTION 15: Regulatory information**

15.1 Safety, health and enviro	nmental regulations/legislation specific for the substance or mixture	
EU Regulation (EC) No. 1907	/2006 (REACH)	
Annex XIV - List of substan	ces subject to authorisation	
Annex XIV		
None of the components are	e listed.	
Substances of very high c	oncern	
None of the components are	e listed.	
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.	
Ozone depleting substances	(1005/2009/EU)	
Not listed.		
This product is controlled und <u>Danger criteria</u>	er the Seveso Directive.	
Category		
E2		
<u>National regulations</u> Product registration number	: <b>P</b> R-4119771	
MAL-code	: 00-5	
Protection based on MAL	: According to the regulations on work involving coded products, the follow stipulations apply to the use of personal protective equipment:	wing
	<b>General:</b> Gloves must be worn for all work that may result in soiling. Apron/corprotective clothing must be worn when soiling is so great that regular work cloth not adequately protect skin against contact with the product. A face shield must in work involving spattering if a full mask is not required. In this case, other recommended use of eye protection is not required.	hes do
English (GB)	Denmark	14/17

Code : 00330614 NOVAGUARD 615/650 HARDENER Date of issue/Date of revision

: 12 September 2022

NOVAGUARD 615/650 HARDENER

# **SECTION 15: Regulatory information**

In all spraying operations in which there is return spray, the following must be worn: respiratory protection and arm protectors/apron/coveralls/protective clothing as appropriate or as instructed.

MAL-code: 00-5

	<b>Application:</b> When using scraper or knife, brush, roller etc. for pre- and post- treatments in a spray booth where the operator is outside the spray zone and when working in similar new* facilities of the combined-cabin, spray-cabin and spray-booth type where the operator is working inside the spray zone. When spraying in new* booths and cabins with non-atomizing guns. During downtimes, cleaning and repair in closed facilities, spray booths or cabins, if there is a risk of contact with wet paint or organic solvents. During non-atomising spraying in existing* facilities of the combined-cabin, spray-cabin and spray-booth type where the operator is working inside the spray zone. When using scraper or knife, brush, roller, etc, for pre- and post-treatments in cabins or booths of the existing* facility type, if the operator is inside the spray zone. When using scraper or knife, brush, roller, etc. for pre- and post-treatments outside a closed facility, spray booth or spray cabin.
	- Protective clothing must be worn.
	When spraying in existing* spray booths, if the operator is outside the spray zone.
	- Air-supplied full mask and protective clothing must be worn.
	During all spraying where atomisation occurs in cabins or spray booths where the operator is inside the spray zone and during spraying outside a closed facility, cabin or booth.
	- Air-supplied full mask, protective clothing and hood must be worn.
	<b>Drying:</b> Items for drying/drying ovens that are temporarily placed on such things as rack trolleys, etc, must be equipped with a mechanical exhaust system to prevent fumes from wet items from passing through workers' inhalation zone.
	<b>Polishing:</b> When polishing treated surfaces, a mask with dust filter must be worn. When machine grinding, eye protection must be worn. Work gloves must always be worn.
	<b>Caution</b> The regulations contain other stipulations in addition to the above.
	*See Regulations.
Restrictions on use	: Not to be used by professional users below 18 years of age. See the National Working Environment Authorities Executive Order regarding Young People At Work.
List of undesirable substances	: Listed
15.2 Chemical safety assessment	: No Chemical Safety Assessment has been carried out.

Code	: 00330614	Date of issue/Date of revision	: 12 September 2022

NOVAGUARD 615/650 HARDENER

## **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

#### Abbreviations and acronyms

ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

PNEC = Predicted No Effect Concentration

RRN = REACH Registration Number

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. 4, H312	Calculation method
Skin Corr. 1B, 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

H302	Harmful if swallowed.
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.
H332	Harmful if inhaled.
H361d	Suspected of damaging the unborn child.
H411	Toxic to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

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

#### <u>History</u>

Date of issue/ Date of revision	: 12 September 2022
Date of previous issue	: 5 May 2022
Prepared by	: EHS
Version	: 11.02
Disclaimer	

Code	: 00330614	Date of issue/Date of revision	: 12 September 2022

NOVAGUARD 615/650 HARDENER

## **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.