Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

SAFETY DATA SHEET

Date of issue/Date of revision

: 9 November 2022





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

1.1 Product identifier	
Product name	: NOVAGUARD 840 BASE RAL 8012
Product code	: 00261723
Product description	:
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

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

1.4 Emergency telephone number

<u>Supplier</u>

+31 20 4075210

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture Classification according to UK CLP/GHS

Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT RE 2, H373 Aquatic Chronic 2, H411

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 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

Hazard pictograms



Signal word

: Warning

English (GB)

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SECTION 2: Hazards	ic	lentification
Hazard statements	:	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.
Precautionary statements		
Prevention	1	Wear protective gloves. Wear eye or face protection. Avoid release to the environment. Do not breathe vapour. Wash thoroughly after handling.
Response	:	Collect spillage.
Storage	1	Not applicable.
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations. P280, P273, P260, P264, P391, P501
Supplemental label elements	:	Contains epoxy constituents. May produce an allergic reaction.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
Special packaging requirem	en	<u>ts</u>
Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	:	Not applicable.
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	:	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	:	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 3: Composition/information on ingredients

Mixture

Formaldehyde, oligomeric reaction products with 1-chloro- 2,3-epoxypropane and phenolREACH #: 01-2119454392-40 EC: 500-006-8 CAS: 9003-36-5 $\geq 25 - \leq 50$ Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411[1]Phenol, polymer with formaldehyde, glycidyl ether (MW <=700)CAS: 28064-14-4 $\geq 10 - \leq 25$ Skin Irrit. 2, H315 Eye Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411[1]benzyl alcoholREACH #: 01-2119492630-38 EC: 202-859-9 CAS: 100-51-6 Index: 603-057-00-5 $\geq 10 - \leq 25$ Stor T RE 1, H372 (inhalation)[1]crystalline silica, respirable powder (<10 microns)CAS: 14808-60-7 REACH #: 01-2119979085-27 $\geq 1.0 - \leq 5.0$ STOT RE 1, H372 (inhalation)[1][1][1][1][1][1][1][1][1][1][1][1][1][1][1][2][2][2][3][3][4][4][4][4][4][4][4][4][4][4][4][4][4][4][4][4][5][6][6][6][6][6][6][6][6][6][7][6][8][6][9][6][9][1][9][1][9][1][9][1][9][1][9][1][9][1]<	Product/ingredient name	Identifiers	%	Classification	Туре
formaldehyde, glycidyl ether (MW <=700) benzyl alcohol crystalline silica, respirable powder (<10 microns) Cctadecanoic acid, 12-hydroxy-, REACH #: REACH #: RE	products with 1-chloro-	01-2119454392-40 EC: 500-006-8	≥25 - ≤50	Skin Sens. 1, H317 Aquatic Chronic 2,	[1]
01-2119492630-38 Acute Tox. 4, H332 EC: 202-859-9 Eye Irrit. 2, H319 CAS: 100-51-6 Index: 603-057-00-5 Index: 603-057-00-5 EC: 238-878-4 (<10 microns)	formaldehyde, glycidyl ether (MW	CAS: 28064-14-4	≥10 - ≤25	Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2,	[1]
(<10 microns)CAS: 14808-60-7(inhalation)Image: Case of the second secon	benzyl alcohol	01-2119492630-38 EC: 202-859-9 CAS: 100-51-6	≥10 - ≤25	Acute Tox. 4, H332	[1]
			≥1.0 - ≤5.0		[1] [2]
	Octadecanoic acid, 12-hydroxy-,		<1.0		[1]

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SECTION 3: Comp	osition/information o	n ingredients	
ethylenediamine	EC: 309-629-8 CAS: 100545-48-0	H412 See S	2 Section 16 for

the full text of the H statements declared

 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

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

SUB codes represent substances without registered CAS Numbers.

SECTION 4: First aid measures

4.1 Description of first aid measures Eye contact : Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice. 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. : If swallowed, seek medical advice immediately and show the container or label. Keep Ingestion 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. 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 irritation. Inhalation : No known significant effects or critical hazards. Skin contact : Causes skin irritation. May cause an allergic skin reaction. Ingestion : No known significant effects or critical hazards. Over-exposure signs/symptoms Eye contact : Adverse symptoms may include the following: pain or irritation watering redness Inhalation : No specific data. **Skin contact** : Adverse symptoms may include the following: irritation redness Ingestion : No specific data. 4.3 Indication of any immediate medical attention and special treatment needed Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. : No specific treatment. Specific treatments

English (GB)

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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	from 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 halogenated compounds metal oxide/oxides Formaldehyde.
5.3 Advice for firefighters	
Special protective actions 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.

SECTION 6: Accidental release measures

6.1 Personal precautions, pro	te	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. Avoid breathing 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 (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

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SECTION 6: Accidental release measures

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6.4 Refere	n <mark>ce to</mark>	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. 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

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. 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.

information on hygiene measures.

7.3 Specific end use(s)

See Section 1.2 for Identified uses.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

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).

Occupational exposure limits

Product/ingredient name	Exposure limit values EH40/2005 WELs (United Kingdom (UK), 1/2020). [silica, respirable crystalline] TWA: 0.1 mg/m³ 8 hours. Form: Respirable fraction	
crystalline silica, respirable powder (<10 microns)		
procedures atmosphere or bio of the ventilation protective equipr standards. Refe	ntains ingredients with exposure limits, personal, workplace iological monitoring may be required to determine the effectiveness or other control measures and/or the necessity to use respiratory nent. Reference should be made to appropriate monitoring rence to national guidance documents for methods for the hazardous substances will also be required.	

DNELs/DMELs

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SECTION 8: Exposure controls/personal protection

Product/ingredient name	Туре	Exposure	Value	Population	Effects
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	DNEL	Long term Oral	6.25 mg/kg bw/day	General population	Systemic
benzyl alcohol	DNEL DNEL DNEL DNEL DMEL DNEL	Long term Inhalation Long term Inhalation Long term Dermal Long term Dermal Short term Dermal Long term Oral	8.7 mg/m ³ 29.39 mg/m ³ 62.5 mg/kg bw/day 104.15 mg/kg bw/day 0.0083 mg/cm ² 4 mg/kg bw/day	General population Workers General population Workers Workers General population	Systemic Systemic Systemic Local
	DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL	Long term Dermal Long term Inhalation Long term Dermal Short term Oral Short term Inhalation Short term Inhalation Short term Dermal Short term Inhalation	4 mg/kg bw/day 5.4 mg/m ³ 8 mg/kg bw/day 20 mg/kg bw/day 20 mg/kg bw/day 22 mg/m ³ 27 mg/m ³ 40 mg/kg bw/day 110 mg/m ³	General population General population Workers General population Workers General population Workers General population Workers Workers	Systemic Systemic Systemic Systemic Systemic Systemic
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	DNEL	Long term Inhalation	0.055 mg/m³	General population	
	DNEL	Long term Inhalation	0.308 mg/m ³	Workers	Local

PNECs

No PNECs 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 measu	ures	
Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection <u>Skin protection</u>	:	Chemical splash goggles.
Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment. butyl rubber

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SECTION 8: Exposure controls/personal protection

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

<u>Appearance</u>				
Physical state	: L	.iquid.		
Colour	: \	/arious		
Odour	: A	Aromatic.		
Odour threshold	: N	lot available.		
Melting point/freezing point				nperature: -15.4°C (4.3°F) This is based on I alcohol. Weighted average: -19.62°C (-3.3
Initial boiling point and boiling range	: >	>37.78°C (>100°F)		
Flammability (solid, gas)	: li	iquid		
Upper/lower flammability or explosive limits		•	nge: Lower: 1.3% U	lpper: 13% (benzyl alcohol)
Flash point	: (Closed cup: 100°C	(212°F)	
Auto-ignition temperature	:			
Ingredient name		°C	°F	Method
benzyl alcohol		436	816.8	
Decomposition temperature	:			
рН	: N	Not applicable.		
-		Not applicable. insc	oluble in water.	
Viscosity	: K	Kinematic (40°C): >	>21 mm²/s	
Solubility(ies)	:			Method
Media		Result		

Weula		Result
cold water		Not soluble
Miscible with water	:	No.
Partition coefficient: n-octanol/ water	:	Not applicable.
Vapour pressure	:	

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SECTION 9: Physical and chemical properties

	Va	Vapour Pressure at 20°C			apour pressure at 50°C
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa
benzyl alcohol	0.05	0.0067			
Relative density	: 1.44	1			
/apour density	: Hig	hest known	value: 3.7 (Air =	1) (benzyl alco	hol).
Explosive properties	: The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.				
Oxidising properties Particle characteristics	: Pro	duct does n	ot present an oxid	dizing hazard.	
Median particle size	: Not	applicable.			

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 : Under normal conditions of storage and use, hazardous reactions will not occur. hazardous reactions **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. : Depending on conditions, decomposition products may include the following **10.6 Hazardous** materials: carbon oxides halogenated compounds Formaldehyde. metal oxide/ decomposition products oxides

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	LD50 Oral	Rat	>10000 mg/kg	-
benzyl alcohol	LC50 Inhalation Dusts and mists	Rat	>4178 mg/m³	4 hours
	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1.23 g/kg	-
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	LC50 Inhalation Dusts and mists	Rat	5.05 mg/l	4 hours
	LD50 Oral	Rat	>2000 mg/kg	-

Acute toxicity estimates

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SECTION 11: Toxicological information

Product/ingree	Product/ingredient name			Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
benzyl alcohol	Octadecanoic acid, 12-hydroxy-, reaction products			N/A N/A N/A	N/A N/A N/A	14.9 1.5 5.05
Irritation/Corrosion						
Conclusion/Summary	: Not available.					
Skin	: There are no data	a available on the	e mixture its	elf.		
Eyes	: There are no data	a available on the	e mixture its	elf.		
Respiratory	: There are no data	a available on the	e mixture its	elf.		
Sensitisation						
Product/ingredient name	Route of exposure	Spec	ies		Result	
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamin		Guinea pig		Sensitisin	g	
Conclusion/Summary						
Skin	: There are no data					
Respiratory	: There are no data	a available on the	e mixture its	elf.		
Mutagenicity						
Conclusion/Summary Carcinogenicity	: There are no data	a available on the	e mixture its	elf.		
Conclusion/Summary Reproductive toxicity	: There are no data available on the mixture itself.					
Conclusion/Summary Teratogenicity	: There are no data	: There are no data available on the mixture itself.				
Conclusion/Summary	:					
	There are no data	a available on the	e mixture itse	əlf.		
Specific target organ toxicit	<u>y (single exposure)</u>					

Not available.

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
crystalline silica, respirable powder (<10 microns)	Category 1	inhalation	-

Aspiration hazard

Not available.

Information on likely routes : Not available.

of exposure

Potential acute health effects	
Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

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	Dricological information
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.

Delayed and immediate effects 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 eff	<u>s</u>	
Not available.		
Conclusion/Summary	Not available.	
General	May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to ve low levels.	əry
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.

SECTION 12: Ecological information

12.1 Toxicity **Product/ingredient name** Result **Species** Exposure Formaldehyde, oligomeric Acute LC50 2.54 mg/l Fish 96 hours reaction products with 1-chloro-2,3-epoxypropane and phenol Algae - Pseudokirchneriella Octadecanoic acid, Acute EC50 >100 mg/l 72 hours 12-hydroxy-, reaction subcapitata products with ethylenediamine Acute EC50 >10 mg/l Daphnia - Daphnia magna 48 hours Acute LC50 >10 mg/l Fish - Oncorhynchus mykiss 96 hours **Conclusion/Summary** : Not available.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	301D Ready Biodegradability - Closed Bottle Test	22 % - 28 days	-	-

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SECTION 12: Ecological information

Conclusion/Summary	: Not available.		
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
benzyl alcohol Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	-	-	Readily Inherent

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	2.7	-	low
benzyl alcohol	0.87	-	low
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	>5.86	-	high

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 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.
Waste catalogue	
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.

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SECTION 13: Disposal considerations

Тур	e of packaging		Waste catalogue
Contai	ner	15 01 06	mixed packaging
Special	precautions	taken wher Empty cont	al and its container must be disposed of in a safe way. Care should be a handling emptied containers that have not been cleaned or rinsed out. tainers or liners may retain some product residues. Avoid dispersal of al and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number	UN3082	UN3082	UN3082	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy Resin, Phenol, polymer with formaldehyde, glycidyl ether (MW<=700)) (Epoxy Resin, Phenol,	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy Resin, Phenol, polymer with formaldehyde, glycidyl ether (MW<=700)) (Epoxy Resin, Phenol,	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy Resin, Phenol, polymer with formaldehyde, glycidyl ether (MW<=700)) (Epoxy Resin, Phenol,	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy Resin, Phenol, polymer with formaldehyde, glycidyl ether (MW<=700)) (Epoxy Resin, Phenol,
	polymer with formaldehyde, glycidyl ether (MW<=700))	polymer with formaldehyde, glycidyl ether (MW<=700))	formaldehyde, glycidyl ether (MW<=700))	formaldehyde, glycidyl ether (MW<=700))
14.3 Transport hazard class(es)	9	9	9	9
14.4 Packing group			111	111
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes.
Marine pollutant substances	Not applicable.	Not applicable.	(Epoxy Resin, Phenol, polymer with formaldehyde, glycidyl ether (MW<=700))	Not applicable.

Additional information

ADR/RID	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.
Tunnel code	: (-)
ADN	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.
IMDG	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.
ΙΑΤΑ	: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.
14.6 Special pre user	cautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
14.7 Transport i according to IM	

instruments

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

UK (GB) /REACH

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.

Ozone depleting substances

Not listed.

Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category

E2

National regulations

Product/ingredient name	List name	Name on list	Classification	Notes
, , , , , , , , , , , , , , , , , , ,	Exposure Limits EH40	silica, respirable crystalline respirable fraction	Carc.	-

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	: ATE = Acute Toxicity Estimate GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019 No. 720 and amendments DMEL = Derived Minimal Effect Level
	DNEL = Derived No Effect Level
	EUH statement = GB CLP-specific Hazard statement
	N/A = Not available
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
	SGG = Segregation Group
	vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification

Classification	Justification
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1, H317	Calculation method
STOT RE 2, H373	Calculation method
Aquatic Chronic 2, H411	Calculation method

Full text of abbreviated H statements

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SECTION 16: Other information		

H302	Harmful if swallowed.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H319	Causes serious eye irritation.	
H332	Harmful if inhaled.	
H372	Causes damage to organs through prolonged or repeated exposure.	
H373	May cause damage to organs through prolonged or repeated exposure.	
H411	Toxic to aquatic life with long lasting effects.	
H412	Harmful to aquatic life with long lasting effects.	

Full text of classifications

Acute Tox. 4 Aquatic Chronic 2 Aquatic Chronic 3 Eye Irrit. 2 Skin Irrit. 2 Skin Sens. 1 Skin Sens. 1B STOT RE 1	ACUTE TOXICITY - Category 4 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITISATION - Category 1 SKIN SENSITISATION - Category 1B SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
History	

Date of issue/ Date of revision	:	11/9/2022
Date of previous issue	:	No previous validation
Prepared by	:	EHS
Version	:	1

<u>Disclaimer</u>

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