# **SAFETY DATA SHEET**

11 August 2021

PPG

Version1.03

# Section 1. Identification

Date of issue/Date of revision

Product code	: 00445129
Product name	: NOVAGUARD 840/890 HARDENER CREAM
Other means of identification	: Not available.
Product type	: Liquid.
Relevant identified uses	of the substance or mixture and uses advised against
Product use	: Coating. Professional applications, Used by spraying.
Uses advised against	: Product is not intended, labelled or packaged for consumer use.
Supplier's details	: PT PPG Coatings Indonesia JI. Rawagelam III No.1 13930 Jakarta Indonesia Tel +62 21 4605710 PMC.Safety@PPG.com
Emergency telephone number	: CHEMTREC 001-803-017-9114 (CCN 17704)

# Section 2. Hazards identification

Classification of the substance or mixture	: ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 3
	ACUTE TOXICITY (inhalation) - Category 3
	SKIN CORROSION/IRRITATION - Category 1A
	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
	SKIN SENSITIZATION - Category 1
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 2
	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 3.5%
	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1.9%
	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 12.6%

**GHS label elements, including precautionary statements** 

Hazard pictograms		72
Signal word	: Danger	
		Indonesia

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# Section 2. Hazards identification

Hazard statements	mful if swallowed. tic in contact with skin or if inhaled. uses severe skin burns and eye da y cause an allergic skin reaction. y cause damage to organs through tic to aquatic life with long lasting e	mage. prolonged or repeated exposure.
Precautionary statements		
Prevention	doors or in a well-ventilated area. / athe vapor.  Do not eat, drink or sn	thing and eye or face protection. Use only Avoid release to the environment. Do not noke when using this product. Wash ted work clothing should not be allowed out of
Response	athing. Immediately call a POISON nediately call a POISON CENTER niting. IF ON SKIN (or hair): Take se skin with water. Immediately ca taminated clothing before reuse. I tor if you feel unwell. Wash with p medical advice or attention. IF IN	e person to fresh air and keep comfortable for N CENTER or doctor. IF SWALLOWED: or doctor. Rinse mouth. Do NOT induce off immediately all contaminated clothing. Ill a POISON CENTER or doctor. Wash F ON SKIN: Call a POISON CENTER or lenty of water. If skin irritation or rash occurs: EYES: Rinse cautiously with water for several esent and easy to do. Continue rinsing. or doctor.
Storage	re locked up.	
Disposal	pose of contents and container in a l international regulations.	accordance with all local, regional, national

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Other hazards which do not : None known. result in classification

# Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

#### CAS number/other identifiers

2,4,6-tris(dimethylaminomethyl)phenol

CAS number EC number	: Not applicable. : Mixture.
Ingredient name	
benzyl alcohol	lenebis(cyclohexylamine)
N-(3-(trimethoxysilyl)pro	pyl)ethylenediamine

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

%

50-100

10- <20

3- <5

1- <3

SUB codes represent substances without registered CAS Numbers.

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

**CAS number** 

6864-37-5

100-51-6

1760-24-3

90-72-2

# Section 4. First aid measures

Description of necessary first aid measures
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Eye contact	<ul> <li>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.</li> </ul>
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 recognized skin cleanser. Do NOT use solvents or thinners.</li> </ul>
Ingestion	<ul> <li>If swallowed, seek medical advice immediately and show this container or label.</li> <li>Keep person warm and at rest. Do NOT induce vomiting.</li> </ul>

Most important symptoms/e	<u>cts, acute and delayed</u>	
Potential acute health effect		
Eye contact Inhalation	Causes serious eye damage. Toxic if inhaled.	
Skin contact	Causes severe burns. Toxic in contact with skin. May cause an allergic skin reaction.	
Ingestion	Harmful if swallowed.	
Over-exposure signs/symp	<u>ns</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	
Indication of immediate med	al attention and special treatment needed, if necessary	
Notes to physician	In case of inhalation of decomposition products in a fire, symptoms may be dela The exposed person may need to be kept under medical surveillance for 48 hou	
Specific treatments	No specific treatment.	
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training. 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.	e า

See toxicological information (Section 11)

# Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: 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 thermal decomposition products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides metal oxide/oxides Formaldehyde.
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	<ul> <li>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</li> </ul>

# Section 6. Accidental release measures

#### Personal precautions, protective 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 spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized 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".
Environmental precautions	:	Avoid dispersal of spilled 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.
Methods and materials for co	nt	ainment and cleaning up

# Small spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop<br/>up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry<br/>material and place in an appropriate waste disposal container. Dispose of via a<br/>licensed waste disposal contractor.

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### Section 6. Accidental release measures

Large spill : Stop leak if without risk. Move containers from spill area. Approach 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 spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

#### 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 vapor 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.
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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

# Section 8. Exposure controls/personal protection

Control parameters		
Occupational exposure limit	S	
None.		
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 appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
Appropriate engineering controls	:	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

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# Section 8. Exposure controls/personal protection

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.
Individual protection measured	<u>ures</u>	
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	:	Chemical splash goggles and face shield.
Skin protection		
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.
Gloves	:	nitrile neoprene
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.

# Section 9. Physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid.
Color	: Colorless.
Odor	: Amine-like.
Odor threshold	: Not available.
рН	: Not applicable.
Melting point	: Not available.
Boiling point	: >37.78°C (>100°F)
Flash point	: Closed cup: Not applicable.
Evaporation rate	: Not available.
Flammability/Combustible properties (solid, gas)	: Not available.

# Section 9. Physical and chemical properties

est known range: Lower: 1.3% Upper: 13% (benzyl alcohol)
ailable.
ailable.
ble in the following materials: cold water.
plicable.
ailable.
ailable.
atic (40°C): >21 mm²/s

# Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products.
Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
Hazardous decomposition products	: Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides Formaldehyde. metal oxide/oxides

# Section 11. Toxicological information

#### Information on toxicological effects

#### Acute toxicity

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	-
			Indone	sia <sup>:</sup> Page: 7/12

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# Section 11. Toxicological information

	LD50 Oral		Rat		1200 mg/kg	-
Conclusion/Summary rritation/Corrosion	: There are no da	ata availab	le on the mixt	ure itself		
Product/ingredient name	Result	Ì	Species	Score	Exposure	Observation
2,4,6-tris (dimethylaminomethyl) phenol	Skin - Visible necr	osis	Rabbit	-	4 hours	7 days
Conclusion/Summary						
Skin	: There are no data available on the mixture itself.					
Eyes	: There are no d	ata availat	ole on the mix	ture itsel	f.	
Respiratory	: There are no data available on the mixture itself.					
Sensitization						
Product/ingredient name	Route of exposure	Species			Result	
2,4,6-tris (dimethylaminomethyl) phenol	skin	Guinea pig Sensitizing				
Conclusion/Summary		-				
Skin	: There are no d	ata availat	ole on the mix	ture itsel	f.	
Respiratory	: There are no data available on the mixture itself.					
<u>Mutagenicity</u>						
Conclusion/Summary Carcinogenicity	: There are no data available on the mixture itself.					
Conclusion/Summary	: There are no data available on the mixture itself.					
Reproductive toxicity						
Conclusion/Summary	: There are no data available on the mixture itself.					
Teratogenicity						
Conclusion/Summary	: There are no d	ata availat	ole on the mix	ture itsel	f.	
Specific target organ toxici	ty (single exposur	<u>e)</u>				
Not available.						

Name		Route of exposure	Target organs
2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine)	Category 2	-	-

#### **Aspiration hazard**

Not available.

#### Information on the likely : Not available. routes of exposure Potential acute health effects Eye contact : Causes serious eye damage. : Toxic if inhaled. Inhalation

Skin contact	<ul> <li>Causes severe burns. Toxic in contact with skin. May cause an allergic skin reaction.</li> </ul>
Ingestion	: Harmful if swallowed.
Symptoms related to the phy	vsical, chemical and toxicological characteristics
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
Delayed and immediate effe	cts and also chronic effects from short and long term exposure
Short term exposure	
Potential immediate effects	: There are no data available on the mixture itself.
	<ul><li>There are no data available on the mixture itself.</li><li>There are no data available on the mixture itself.</li></ul>
effects	
effects Potential delayed effects	
effects Potential delayed effects Long term exposure Potential immediate	: There are no data available on the mixture itself.
effects Potential delayed effects Long term exposure Potential immediate effects	<ul> <li>There are no data available on the mixture itself.</li> <li>There are no data available on the mixture itself.</li> <li>There are no data available on the mixture itself.</li> </ul>
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effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects Potential chronic health eff General	<ul> <li>There are no data available on the mixture itself.</li> <li>There are no data available on the mixture itself.</li> <li>There are no data available on the mixture itself.</li> <li>There are no data available on the mixture itself.</li> <li>There are no data available on the mixture itself.</li> <li>There are no data available on the mixture itself.</li> <li>There are no data available on the mixture itself.</li> <li>There are no data available on the mixture itself.</li> <li>There are no data available on the mixture itself.</li> <li>There are no data available on the mixture itself.</li> <li>There are no data available on the mixture itself.</li> <li>There are no data available on the mixture itself.</li> <li>There are no data available on the mixture itself.</li> <li>There are no data available on the mixture itself.</li> <li>There are no data available on the mixture itself.</li> <li>There are no data available on the mixture itself.</li> <li>There are no data available on the mixture itself.</li> <li>There are no data available on the mixture itself.</li> <li>There are no data available on the mixture itself.</li> <li>There are no data available on the mixture itself.</li> <li>There are no data available on the mixture itself.</li> <li>There are no data available on the mixture itself.</li> <li>There are no data available on the mixture itself.</li> <li>There are no data available on the mixture itself.</li> <li>There are no data available on the mixture itself.</li> <li>There are no data available on the mixture itself.</li> <li>There are no data available on the mixture itself.</li> <li>There are no data available on the mixture itself.</li> <li>There are no data available on the mixture itself.</li> <li>There are no data available on the mixture itself.</li> <li>There are no data available on the mixture itself.</li> <li>There are no data available on the mixture itself.</li> <li>There are no data available on the mixture itself.</li> <li>There are no data available on the mixture itself.</li> &lt;</ul>

#### Numerical measures of toxicity

#### Acute toxicity estimates

Route	ATE value
Oral	583.99 mg/kg
Dermal	365.73 mg/kg
Inhalation (vapors)	312.11 mg/l
Inhalation (dusts and mists)	0.59 mg/l

#### Other information

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# Section 11. Toxicological information

Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Trimethoxysilanes are capable of forming methanol if hydrolyzed or ingested. If swallowed, methanol may be harmful or fatal or cause blindness. Contains a substance that may emit formaldehyde if stored beyond its shelf life and/or during cure at curing temperatures greater than 60C (140F).

# Section 12. Ecological information

#### <u>Toxicity</u>

Product/ingredient name	Result	Species	Exposure
2,4,6-tris (dimethylaminomethyl)phenol	Acute LC50 175 mg/l	Fish	96 hours

#### Persistence/degradability

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

#### **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

#### Mobility in soil

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

**Other adverse effects** 

: No known significant effects or critical hazards.

# Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized 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 nonrecyclable 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 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 spilled material and runoff and contact with soil, waterways, drains and sewers.

# Section 14. Transport information

	UN	IMDG	ΙΑΤΑ
UN number	UN2922	UN2922	UN2922
UN proper shipping name	CORROSIVE LIQUID, TOXIC, N.O.S.	CORROSIVE LIQUID, TOXIC, N.O.S.	CORROSIVE LIQUID, TOXIC, N.O.S.
	(2,2'-dimethyl-4,4'- methylenebis (cyclohexylamine), 2,4,6-tris (dimethylaminomethyl)phenol)	(2,2'-dimethyl-4,4'- methylenebis (cyclohexylamine), 2,4,6-tris (dimethylaminomethyl)phenol)	(2,2'-dimethyl-4,4'- methylenebis (cyclohexylamine), 2,4,6-tris (dimethylaminomethyl)phenol)
Transport hazard class(es)	8 (6.1)	8 (6.1)	8 (6.1)
Packing group	II	II	II
Environmental hazards	Yes. The environmentally hazardous substance mark is not required.	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 i	nformation
UN	: None identified.
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.
Current of the second	

**Special precautions for user** : **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.

: No known specific national and/or regional regulations applicable to this product

Transport in bulk according : Not applicable. to IMO instruments

# Section 15. Regulatory information

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Safety, health and environmental regulations specific for the product

**Classification** 

(including its ingredients).

#### Law No. 74/2001 - Banned

None of the components are listed.

#### Law No. 74/2001 - Restricted

None of the components are listed.

# Section 15. Regulatory information

Law No. 74/2001 - : Not determined

Chemicals that may be used

# International regulations

### Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

# Section 16. Other information

<u>History</u>	
Date of issue/Date of revision	: 11 August 2021
Date of previous issue	: 8/11/2021
Version	: 1.03
Prepared by	: EHS
Key to abbreviations	<ul> <li>ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway</li> <li>ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road</li> <li>ATE = Acute Toxicity Estimate</li> <li>BCF = Bioconcentration Factor</li> <li>GHS = Globally Harmonized System of Classification and Labelling of Chemicals</li> <li>IATA = International Air Transport Association</li> <li>IMDG = International Maritime Dangerous Goods</li> <li>LogPow = logarithm of the octanol/water partition coefficient</li> <li>MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)</li> <li>RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail</li> <li>UN = United Nations</li> </ul>

Indicates information that has changed from previously issued version.

#### Notice to reader

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 PPG, 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.