# **SAFETY DATA SHEET**

Safety Data Sheet according to GB/T 16483-2008 and GB/T 17519-2013



Date of issue/Date of revision 11 March 2024

Version 2

Version 2			
Section 1. Chemical product and company identification			
Product code	: 00375647		
Product name	: NOVAGUARD 650 BASE CLEAR OXIDE YELLOW FR		
Product name	: NOVAGUARD 650 BASE CLEAR OXIDE YELLOW FR		
Product type	: Liquid.		
Relevant identified uses o	f the substance or mixture and uses advised against		
Product use	: Professional applications, Used by spraying.		
Use of the substance/ mixture	: Coating.		

Supplier's details	: PPG Coatings (Kunshan) Co., Ltd 53 Jinyang Road, Lujia Town, 215331 Kunshan City, Jiangsu Province, P.R. China Tel: 86 512 57678859 Fax: 86 512 57678857
Emergency telephone	: 00 86 532 83889090

: Not applicable.

Emergency telephone number (with hours of operation)

**Uses advised against** 

## Section 2. Hazards identification

Classification of the substance or mixture according to GB 13690-2009 and GB 30000-2013

Emergency overview
Liquid.
Odorless.
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
Harmful if inhaled.
Toxic to aquatic life.
Toxic to aquatic life with long lasting effects.
IF INHALED: Call a POISON CENTER or doctor if you feel unwell. If skin irritation or rash occurs: Get medical advice or attention.
See Section 12 for environmental precautions.

Classification of the	: CUTE TOXICITY (inhalation) - Category 4
substance or mixture	SKIN CORROSION/IRRITATION - Category 2
	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
	SKIN SENSITIZATION - Category 1
	AQUATIC HAZARD (ACUTE) - Category 2
	AQUATIC HAZARD (LONG-TERM) - Category 2

Product code 00375647

Date of issue 11 March 2024

Version 2

Product name NOVAGUARD 650 BASE CLEAR OXIDE YELLOW FR

## Section 2. Hazards identification

Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 58.7%

Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 48.6%

GHS label elements	
Hazard pictograms	
Signal word	: Warning
Hazard statements	<ul> <li>Causes skin irritation.</li> <li>May cause an allergic skin reaction.</li> <li>Causes serious eye irritation.</li> <li>Harmful if inhaled.</li> <li>Toxic to aquatic life.</li> <li>Toxic to aquatic life with long lasting effects.</li> </ul>
Precautionary statements	
Prevention	: Wear protective gloves. Wear eye or face protection. Use only outdoors or in a well- ventilated area. Avoid release to the environment. Avoid breathing vapor. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.
Response	: Collect spillage. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Storage	: Not applicable.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Physical and chemical hazards	: No known significant effects or critical hazards.
Health hazards	: Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled.
Symptoms related to the ph	nysical, chemical and toxicological characteristics
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
	China Page: 2/12

Product name NOVAGUARD 650 BASE CLEAR OXIDE YELLOW FR

### Section 2. Hazards identification

Ingestion

: No specific data.

Delayed and immediate effec	ts i	and also chronic effects from short and long term exposure
<u>Short term exposure</u>		
Potential immediate effects	1	Not available.
Potential delayed effects	:	Not available.
Long term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	1	Not available.
Environmental hazards	:	Toxic to aquatic life. Toxic to aquatic life with long lasting effects.
Other hazards which do not result in classification	:	None known.

## Section 3. Composition/information on ingredients

Substance/mixture : Mixture

#### **CAS number/other identifiers**

<b>CAS number</b> : Not applicable.		
Ingredient name	%	CAS number
bis-[4-(2,3-epoxipropoxi)phenyl]propane benzyl alcohol Talc , not containing asbestiform fibres	40 - <70 10 - <25 1 - <10	1675-54-3 100-51-6 14807-96-6

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 and hence require reporting in this section.

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

SUB codes represent substances without registered CAS Numbers.

## Section 4. First aid measures

Description of necessary first aid measures		
Eye contact	<ul> <li>Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.</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	: If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.	

#### Most important symptoms/effects, acute and delayed

Version 2

Product name NOVAGUARD 650 BASE CLEAR OXIDE YELLOW FR

### Section 4. First aid measures

Potential acute health effec	<u>ts</u>	
Eye contact	1	Causes serious eye irritation.
Inhalation	1	Harmful if inhaled.
Skin contact	1	Causes skin irritation. May cause an allergic skin reaction.
Ingestion	:	No known significant effects or critical hazards.
Over-exposure signs/symp	ton	<u>15</u>
Eye contact	:	Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	4	No specific data.
Skin contact	-	Adverse symptoms may include the following: irritation redness
Ingestion	1	No specific data.
Indication of immediate med	ica	l attention and special treatment needed, if necessary
Notes to physician	:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	1	No specific treatment.
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.

See toxicological information (Section 11)

#### Section 5. Fire-fighting measures **Extinguishing media** Suitable extinguishing : Use an extinguishing agent suitable for the surrounding fire. media Unsuitable extinguishing : None known. media Specific hazards arising : 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 from the chemical 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: **Hazardous thermal** ŝ, decomposition products carbon oxides metal oxide/oxides **Special protective actions** : Promptly isolate the scene by removing all persons from the vicinity of the incident if for fire-fighters there is a fire. No action shall be taken involving any personal risk or without

suitable training.

#### Product name NOVAGUARD 650 BASE CLEAR OXIDE YELLOW FR

### Section 5. Fire-fighting measures

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

Personal precautions, protect	ive 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. Avoid breathing 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".
	: 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	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 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
 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 ingest. Avoid breathing vapor or mist. 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.

#### Product name NOVAGUARD 650 BASE CLEAR OXIDE YELLOW FR

## Section 7. Handling and storage

Conditions for safe storage,	: Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in
including any	accordance with local regulations. Store in original container protected from direct
incompatibilities	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 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 limits**

Ingredient name		Exposure limits
✓alc , not containing asbestiform fibres		GBZ 2.1 (China, 11/2022). PC-TWA: 1 mg/m³ 8 hours. Form: respirable dust PC-TWA: 3 mg/m³ 8 hours. Form: total dust
Recommended monitoring procedures		made to appropriate monitoring standards. Reference to cuments for methods for the determination of hazardous be required.
Appropriate engineering controls	ventilation or other er	te ventilation. Use process enclosures, local exhaust ngineering controls to keep worker exposure to airborne any recommended or statutory limits.
Environmental exposure controls	they comply with the cases, fume scrubbe	lation or work process equipment should be checked to ensure requirements of environmental protection legislation. In some rs, filters or engineering modifications to the process cessary to reduce emissions to acceptable levels.
ndividual protection measur	<u>es</u>	
Hygiene measures	eating, smoking and Appropriate techniqu Contaminated work o contaminated clothin	ns and face thoroughly after handling chemical products, before using the lavatory and at the end of the working period. es should be used to remove potentially contaminated clothing. lothing should not be allowed out of the workplace. Wash g before reusing. Ensure that eyewash stations and safety the workstation location.
Eye protection	: Chemical splash gog	gles.
Skin protection		
Hand protection	be worn at all times w this is necessary. Co check during use tha should be noted that different for different	npervious gloves complying with an approved standard should when handling chemical products if a risk assessment indicates insidering the parameters specified by the glove manufacturer, t the gloves are still retaining their protective properties. It the time to breakthrough for any glove material may be glove manufacturers. In the case of mixtures, consisting of he protection time of the gloves cannot be accurately
Gloves	: butyl rubber	
Body protection	: Personal protective e	quipment for the body should be selected based on the task

Product code 00375647

Date of issue 11 March 2024

Version 2

Product name NOVAGUARD 650 BASE CLEAR OXIDE YELLOW FR

## Section 8. Exposure controls/personal protection

Other skin protection	<ul> <li>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.</li> </ul>
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

Appearance	
Physical state	: Liquid.
Odor	: Odorless.
Boiling point	: >37.78°C (>100°F)
Flash point	: Closed cup: 103°C (217.4°F)
Lower and upper explosive (flammable) limits	: Greatest known range: Lower: 1.3% Upper: 13% (benzyl alcohol)
Relative density	: 1.39
Solubility(ies)	. Media Result
Colubility(ICS)	cold water Not soluble
Viscosity	: Kinematic (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 metal oxide/oxides

### Section 11. Toxicological information

#### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
s-[4-(2,3-epoxipropoxi)phenyl] propane	LD50 Dermal	Rabbit	23000 mg/kg	-
benzyl alcohol	LD50 Oral LC50 Inhalation Dusts and mists	Rat Rat	15000 mg/kg >4178 mg/m³	- 4 hours
	LD50 Dermal LD50 Oral	Rabbit Rat	2000 mg/kg 1.23 g/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
pis-[4-(2,3-epoxipropoxi) phenyl]propane	Eyes - Mild irritant	Rabbit	-	24 hours	-
	Eyes - Redness of the conjunctivae	Rabbit	0.4	24 hours	-
	Skin - Edema	Rabbit	0.5	4 hours	-
	Skin - Erythema/Eschar	Rabbit	0.8	4 hours	-
	Skin - Mild irritant	Rabbit	-	4 hours	-

#### **Sensitization**

•	Route of exposure	Species	Result
bis-[4-(2,3-epoxipropoxi) phenyl]propane	skin	Mouse	Sensitizing

#### **Mutagenicity**

Not available.

#### **Carcinogenicity**

Not available.

#### **Reproductive toxicity**

Not available.

#### **Teratogenicity**

Not available.

#### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Talc , not containing asbestiform fibres	Category 3	-	Respiratory tract irritation

#### Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Name	Result
benzyl alcohol	ASPIRATION HAZARD - Category 2

Version 2

Product name NOVAGUARD 650 BASE CLEAR OXIDE YELLOW FR

Information on the likely	: Not available.
routes of exposure	
Potential acute health effect	: <u>ts</u>
Eye contact	: Causes serious eye irritation.
Inhalation	: Harmful if inhaled.
Skin contact	: 🗭 auses skin irritation. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
oymptoms related to the pl	hysical, chemical and toxicological characteristics
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
Induction	redness
Ingestion	: No specific data.
Delayed and immediate effo	ects and also chronic effects from short and long term exposure
Short term exposure	
Potential immediate	: Not available.
effects	
Potential delayed effects	: Not available.
<u>Long term exposure</u>	

Potential delayed effects	: Not available.
Potential chronic health ef	<u>ects</u>
General	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

#### Numerical measures of toxicity

Acute toxicity estimates

effects

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
NOVAGUARD 650 BASE CLEAR OXIDE YELLOW	8213.8	13355.8	N/A	N/A	4.1
bis-[4-(2,3-epoxipropoxi)phenyl]propane benzyl alcohol	15000 1230	23000 2000	N/A N/A	N/A N/A	N/A 1.5

China Page: 9/12

## Section 11. Toxicological information

#### **Other information**

Sanding and grinding dusts may be harmful if inhaled. 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.

## Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
pis-[4-(2,3-epoxipropoxi) phenyl]propane	Acute LC50 1.8 mg/l Fresh water	Daphnia - <i>daphnia magna</i>	48 hours
	Chronic NOEC 0.3 mg/l	Daphnia	21 days

#### Persistence/degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
øis-[4-(2,3-epoxipropoxi) phenyl]propane	-	-	Not readily
benzyl alcohol	-	-	Readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
benzyl alcohol	0.87	-	Low

#### Mobility in soil

Soil/water partition : Not a coefficient (Koc)

: Not available.

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 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. 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

	-			
	China	UN	IMDG	ΙΑΤΑ
UN number	UN3082	UN3082	UN3082	UN3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis-[4- (2,3-epoxipropoxi) phenyl]propane)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Dis-[4- (2,3-epoxipropoxi) phenyl]propane)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis-[4- (2,3-epoxipropoxi) phenyl]propane)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis-[4- (2,3-epoxipropoxi) phenyl]propane)
Transport hazard class(es)	9	9	9	9
Packing group	Ш	111	111	111
Environmental hazards	Yes.	Yes.	Yes.	Yes.
Marine pollutant substances	Not applicable.	Not applicable.	(Dis-[4- (2,3-epoxipropoxi) phenyl]propane)	Not applicable.

#### **Additional information**

CN	: None identified.
UN	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.
IATA	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.
Special preca	<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.
Transport in	bulk according

Transport in bulk according	11	Not applicable.
to IMO instruments		

## Section 15. Regulatory information

	China Page: 11/12
	Code of Occupational Disease Prevention of the People's Republic of China Environmental Protection Law of the People's Republic of China Fire Control Law of the People's Republic of China Regulations on the Control over Safety of Dangerous Chemicals Occupational exposure limits for hazardous agents in the workplace chemical hazardous agents (GBZ2.1) General rule for classification and hazard communication of chemicals (GB13690) Safety data sheet for chemical products - Content and order of sections (GB/ T16483) Guidance on the compilation of safety data sheet for chemical products (GB/
References	: Production Safety Law of the People's Republic of China
China inventory (IECSC)	: All components are listed or exempted.

### Section 15. Regulatory information

T17519)

General rule for preparation of precautionary label for chemicals (GB15258) Safety rules for classification, precautionary labeling and precautionary statements of chemicals (GB30000.2-29)

## Section 16. Other information

<u>History</u>	
Date of issue/Date of revision	: 11 March 2024
Date of previous issue	: 8/23/2022
Version	: 2
	EHS
Key to abbreviations	<ul> <li>ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail 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.