SAFETY DATA SHEET



The information in this Safety Data Sheet is required pursuant to GHS UN rev. 7

Date of issue/Date of revision 9 August 2023 Version 5

Section 1. Identification

Product code	: 00177815
Product name	: NOVAGUARD 840 BASE
Product type	: Liquid.
Other means of identification Not available.	
Relevant identified uses of th	e 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 information	: PPG Asian Paints Private Limited 6A Shanti Nagar Santa Cruz (East) Mumbai - 400055 India
Emergency telephone number:	: +91 22 6815 8700

Section 2. Hazards identification

Classification of the substance or mixture	CUTE TOXICITY (oral) - Category 5 ACUTE TOXICITY (dermal) - Category 5 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A SKIN SENSITISATION - Category 1
	SKIN SENSITISATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
	Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 34%
	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 39.3%
	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 83.9%
	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 38.6%
GHS label elements	
Hazard pictograms	
Signal word	: Warning

Product code 00177815 Product name NOVAGUARD 840 BASE

Section 2. Hazards identification

 May be harmful if swallowed or in contact with skin. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.
: Wear protective gloves. Wear eye or face protection. Use only outdoors or in a well- ventilated area. Avoid release to the environment. Do not breathe vapour. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.
: Collect spillage. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell. 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.
: Not applicable.
: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Other hazards which do not : Mone known. result in classification

Section 3. Composition/information on ingredients

0.1		1	
Sub	stance	e/mixt	ure

: Mixture

CAS number/other identifiers

CAS number : Not applicable.		
Ingredient name	%	CAS number
Sisphenol F diglycidyl ether, isomer mixture benzyl alcohol Phenol, polymer with formaldehyde, glycidyl ether crystalline silica, respirable powder (<10 microns) Talc , not containing asbestiform fibres	25 - <50 10 - <20 5 - <10 5 - <10 3 - <5	SUB140549 100-51-6 28064-14-4 14808-60-7 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	:	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.

Section 4. First aid measures		
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.	b
Ingestion	If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.	•
Most important symptoms/e	cts, acute and delayed	
Potential acute health effe		
Eye contact	Causes serious eye irritation.	
Inhalation	Harmful if inhaled.	
Skin contact	May be harmful in contact with skin. Causes skin irritation. May cause an aller skin reaction.	gic
Ingestion	May be harmful if swallowed.	
<u>Over-exposure signs/sym</u>	<u>ns</u>	
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.	
Indication of immediate me	al 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	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 appropriat mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothin thoroughly with water before removing it, or wear gloves.	te n

See toxicological information (Section 11)

Section 5. Firefighting measures

	India Bago: 3/11
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.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides halogenated compounds metal oxide/oxides
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.
Unsuitable extinguishing media	: None known.
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Extinguishing media	

Section 5. Firefighting 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, 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 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".
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.
Methods and material for con	itainment 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.

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 breather vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	

Section 7. Handling and storage

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.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name		Exposure limits
Fystalline silica, respirable powder (<10 microns) Talc , not containing asbestiform fibres		ACGIH TLV (United States, 1/2022). [Silica, crystalline] TWA: 0.025 mg/m ³ 8 hours. Form: Respirable ACGIH TLV (United States, 1/2022). TWA: 2 mg/m ³ 8 hours. Form: Respirable
Recommended monitoring procedures		ppropriate monitoring standards. Reference to or methods for the determination of hazardous d.
Appropriate engineering controls Environmental exposure controls	 ventilation or other engineering contaminants below any recom Emissions from ventilation or w they comply with the requireme cases, fume scrubbers, filters or 	on. Use process enclosures, local exhaust controls to keep worker exposure to airborne mended or statutory limits. ork process equipment should be checked to ensure nts of environmental protection legislation. In some r engineering modifications to the process reduce emissions to acceptable levels.
ndividual protection measure	<u>es</u>	
Hygiene measures	eating, smoking and using the I Appropriate techniques should Contaminated work clothing sho	e thoroughly after handling chemical products, before avatory and at the end of the working period. be used to remove potentially contaminated clothing. build not be allowed out of the workplace. Wash eusing. Ensure that eyewash stations and safety ration location
Eye/face protection	: Safety eyewear complying with assessment indicates this is ne gases or dusts. If contact is po	an approved standard should be used when a risk cessary to avoid exposure to liquid splashes, mists, ssible, the following protection should be worn, s a higher degree of protection: chemical splash
Skin protection	0.00	
Hand protection	be worn at all times when hand this is necessary. Considering check during use that the glove should be noted that the time to different for different glove man	gloves complying with an approved standard should ing chemical products if a risk assessment indicates the parameters specified by the glove manufacturer, s are still retaining their protective properties. It breakthrough for any glove material may be ufacturers. In the case of mixtures, consisting of ion time of the gloves cannot be accurately
Gloves	: butyl rubber	

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	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

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

Appearance

Physical state Colour	1	Liquid. Various						
Odour	:	Aromatic.	Aromatic.					
Odour threshold	:	Not available.						
Melting point/freezing point	:	Not available.						
Boiling point, initial boiling point, and boiling range	:	>37.78°C (>100°F)						
Flammability	:	Not available.						
Lower and upper explosive (flammable) limits	1	Not available.						
Flash point	:	Closed cup: 155°C ((311°F)					
Auto-ignition temperature	:	435°C (815°F)						
Decomposition temperature	1	Not available.						
рН	1	Not applicable.						
Viscosity	:	Kinematic (40°C): >	21 mm²/s					
Viscosity	1	60 - 100 s (ISO 6mr	60 - 100 s (ISO 6mm)					
Solubility(ies)		Media Result						
Solubility(les)	1	old water	Nc	t soluble	9			
Partition coefficient: n- octanol/water	1	Not applicable.						
Vapour pressure	÷		Vapou	ur Press	ure at 20°C	Vapo	our press	sure at 50°C
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
		benzyl alcohol	0.05	0.0067				
Relative density	:	1.44	1	1			1	
Relative vapour density	:	Not available.						

Particle characteristics Median particle size **Evaporation rate**

- : Not applicable.
- : Not available.

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: oxidising agents, strong alkalis, strong acids.
Hazardous decomposition products	: Depending on conditions, decomposition products may include the following materials: carbon oxides halogenated compounds metal oxide/oxides
Hazardous polymerisation	: Under normal conditions of storage and use, hazardous polymerisation will not occur.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure		
sphenol F diglycidyl ether,	LD50 Dermal	Rat - Male,	>2000 mg/kg	-		
isomer mixture		Female				
	LD50 Oral	Rat - Male, Female	>2000 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	-		
Conclusion/Summary	: There are no data available on	the mixture its	elf.			
rritation/Corrosion						
Conclusion/Summary						
Skin	: There are no data available on	the mixture its	elf.			
Eyes	: There are no data available on	: There are no data available on the mixture itself.				
Respiratory	: There are no data available on the mixture itself.					
Sensitisation						
Conclusion/Summary						
Skin	: There are no data available on	the mixture its	elf.			
Respiratory	: There are no data available on	the mixture its	elf.			
Mutagenicity						
Conclusion/Summary	: There are no data available on	the mixture its	elf.			
Carcinogenicity						
Conclusion/Summary	: There are no data available on	the mixture its	elf.			
Reproductive toxicity						
Conclusion/Summary	: There are no data available on	the mixture ite	olf			
Conclusion/Summary						
<u>Feratogenicity</u>						

Section 11. Toxicological information

Conclusion/Summary

: There are no data available on the mixture itself.

Specific target organ toxicity (single exposure)

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

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
crystalline silica, respirable powder (<10 microns)	Category 1	inhalation	-

Aspiration hazard

Name	Result
benzyl alcohol	ASPIRATION HAZARD - Category 2

Information on likely routes of exposure	:	Not available.
Potential acute health effects	2	
Eye contact	:	Causes serious eye irritation.
Inhalation	:	Harmful if inhaled.
Skin contact	1	May be harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction.
Ingestion	1	May be harmful if swallowed.
Symptoms related to the phy	sic	cal, 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
Ingestion	1	No specific data.
Delayed and immediate effect	:ts	as well as chronic effects from short and long-term exposure
Short term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	1	Not available.
Long term exposure		
Potential immediate effects	1	Not available.
Potential delayed effects	1	Not available.
Potential chronic health eff	ect	<u>s</u>
Not available.		

Section 11. Toxicological information

General	: May cause damage to organs through prolonged or repeated exposure. 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

Route	ATE value
Øral	2534.6 mg/kg
Dermal	2651.85 mg/kg
Inhalation (dusts and mists)	2.39 mg/l

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 vapour/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
sphenol F diglycidyl ether, isomer mixture	EC50 >1.8 mg/l	Algae	72 hours
	EC50 >1000 mg/l	Daphnia	48 hours
	LC50 2.54 mg/l	Fish	96 hours
	NOEC 0.3 mg/l	Daphnia	21 days

Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
sphenol F diglycidyl ether, isomer mixture	-	0 % - Not readily - 28 days		-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
sphenol F diglycidyl ether, isomer mixture benzyl alcohol	-		-		Not rea Readily	,

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
sphenol F diglycidyl ether, isomer mixture	3.6	-	Low
benzyl alcohol	0.87	-	Low

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Product code 00177815 Product name NOVAGUARD 840 BASE

Date of issue 9 August 2023

Section 12. Ecological information

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

 Disposal methods
 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. 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	UN	IMDG	ΙΑΤΑ
UN number	UN3082	UN3082	UN3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
	()	bisphenol F diglycidyl ether, isomer mixture)	bisphenol F diglycidyl ether, isomer mixture)
Transport hazard class(es)	9	9	9
Packing group	III	III	III
Environmental hazards	Yes.	Yes.	Yes.
Marine pollutant substances	Not applicable.	(bisphenol F diglycidyl ether, isomer mixture)	Not applicable.

Additional information

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.
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.

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.

Transport in bulk according : Not applicable. to IMO instruments

Section 15. Regulatory information

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	: 9 August 2023
Date of previous issue	: 5/20/2021
Version	: 5
Prepared by	: EHS
key to abbreviations	 ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container 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) UN = United Nations

Procedure used to derive the classification

Classification	Justification
CUTE TOXICITY (oral) - Category 5	Calculation method
ACUTE TOXICITY (dermal) - Category 5	Calculation method
ACUTE TOXICITY (inhalation) - Category 4	Calculation method
SKIN CORROSION/IRRITATION - Category 2	Calculation method
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A	Calculation method
SKIN SENSITISATION - Category 1	Calculation method
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2	Calculation method
SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 2	Calculation method
LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2	Calculation method

V 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 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.