

# SAFETY DATA SHEET


PRO INDUSTRIAL™ DTM Acrylic Eg-Shel  
Deep Base

In accordance with the Standard for Classification and Labeling of Chemical Substance and Safety Data Sheet,  
Article 10 Paragraph 1

## Section 1. Chemical product and company identification

- A. Product name** : PRO INDUSTRIAL™ DTM Acrylic Eg-Shel  
Deep Base
- Product code** : B66W1253
- Product use** : Industrial applications, Used by spraying.
- B. Relevant identified uses of the substance or mixture and uses advised against**
- Identified uses**  
Not applicable.
- Uses advised against**  
Not applicable.
- C. Manufacturer** : THE SHERWIN-WILLIAMS COMPANY  
101 W. Prospect Avenue  
Cleveland, OH 44115
- e-mail address of person responsible for this SDS** : sds@sherwin.com
- Emergency telephone number (with hours of operation)** : 00-308-13-2549  
+(82) 070-7686-0086  
Emergency contact available 24 hours a day

## Section 2. Hazards identification

- A. Hazard classification** : SKIN SENSITIZATION - Category 1  
CARCINOGENICITY - Category 1A  
AQUATIC HAZARD (ACUTE) - Category 1  
AQUATIC HAZARD (LONG-TERM) - Category 3  
This product is classified in accordance with the Industrial Safety and Health Act and the Chemical Control Act.
- B. GHS label elements, including precautionary statements**
- Symbol** : 
- Signal word** : Danger
- Hazard statements** : H317 - May cause an allergic skin reaction.  
H350 - May cause cancer.  
H400 - Very toxic to aquatic life.  
H412 - Harmful to aquatic life with long lasting effects.
- Precautionary statements**

## Section 2. Hazards identification

- Prevention** : P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P280 - Wear protective gloves, protective clothing and eye or face protection.  
P273 - Avoid release to the environment.  
P261 - Avoid breathing vapor.  
P272 - Contaminated work clothing should not be allowed out of the workplace.
- Response** : P391 - Collect spillage.  
P308 + P313 - IF exposed or concerned: Get medical advice or attention.  
P362 + P364 - Take off contaminated clothing and wash it before reuse.  
P302 + P352 - IF ON SKIN: Wash with plenty of water.  
P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.
- Storage** : P405 - Store locked up.
- Disposal** : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

**C. Other hazards which do not result in classification** : Please refer to the SDS for additional information.

## Section 3. Composition/information on ingredients

- Substance/mixture** : Mixture
- Other means of identification** : Not available.

Ingredient name	Common name	Identifiers	%
Titanium Dioxide	TITANIUM DIOXIDE	CAS: 13463-67-7	≤10
Polypropylene glycol alkyl phenyl ether	SOLIDS POLYPROPYLENE GLY ALKYL PHENYL ETH.	CAS: 9064-13-5	≤5
Benzophenone	BENZOPHENONE	CAS: 119-61-9	≤5
Cristobalite, respirable powder	CRISTOBALITE 100 PCT	CAS: 14464-46-1	≤5
Ammonium Hydroxide	AMMONIUM HYDROXIDE	CAS: 1336-21-6	≤5
3-Iodo-2-propynyl Butyl Carbamate	P-100 / MP 100 FUNGICIDE	CAS: 55406-53-6	≤5
Sodium Nitrite	SODIUM NITRITE	CAS: 7632-00-0	≤5
1,2-Benzisothiazolone	1,2-BENZISOTHIAZOLIN	CAS: 2634-33-5	≤5

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.

## Section 4. First aid measures

- A. Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- B. Skin contact** : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

## Section 4. First aid measures

- C. Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- D. Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- E. 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. 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

- A. Extinguishing media**
- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.
- B. 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 very toxic to aquatic life. This material is harmful 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 dioxide  
carbon monoxide  
metal oxide/oxides
- C. 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.
- Special precautions 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.

## Section 6. Accidental release measures

- A. Personal precautions, protective equipment and emergency procedures** : 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.
- B. 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.
- C. Methods and materials for containment 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

- A. 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. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- B. Conditions for safe storage, including any incompatibilities** : 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

### A. Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
Titanium Dioxide	<b>Ministry of Employment and Labor (Republic of Korea, 1/2020).</b> TWA: 10 mg/m <sup>3</sup> 8 hours.
Cristobalite, respirable powder	<b>Ministry of Employment and Labor (Republic of Korea, 1/2020).</b> TWA: 0.05 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction
ammonia	<b>Ministry of Employment and Labor (Republic of Korea, 1/2020). [Ammonia]</b> STEL: 35 ppm 15 minutes. TWA: 25 ppm 8 hours.

#### Biological exposure indices

No exposure indices known.

**B. Appropriate engineering controls** : If user operations generate dust, fumes, gas, vapor 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.

**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.

### C. Personal protective equipment

**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.

**Eye protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

**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.

**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.

**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.

## Section 9. Physical and chemical properties

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

### A. Appearance

**Physical state** : Liquid.  
**Color** : Not available.

**B. Odor** : Not available.

**C. Odor threshold** : Not available.

**D. pH** : 9

**E. Melting/freezing point** : Not available.

**F. Boiling point, initial boiling point, and boiling range** : 100°C (212°F)

**G. Flash point** : Closed cup: Not applicable.

**Fire point** : Not available.

**H. Evaporation rate** : 0.09 (butyl acetate = 1)

**I. Flammability (solid, gas)** : Not available.

**J. Lower and upper explosive (flammable) limits** : Lower: 0.6%  
Upper: 4.2%

**K. Vapor pressure** : 2.3 kPa (17.5 mm Hg)

**L. Solubility(ies)** :

Media	Result
cold water	Partially soluble

**Solubility in water** : Not available.

**M. Vapor density** : 1 [Air = 1]

**N. Relative density** : 1.17

**O. Partition coefficient: n-octanol/water** : Not applicable.

**P. Auto-ignition temperature** : Not available.

**Q. Decomposition temperature** : Not available.

**R. Viscosity** : Kinematic (40°C (104°F)): >20.5 mm<sup>2</sup>/s (>20.5 cSt)

**Flow time (ISO 2431)** : Not available.

**S. Molecular weight** : Not applicable.

**Heat of combustion** : 0.99 kJ/g

## Section 10. Stability and reactivity

**A. Chemical stability** : The product is stable.  
**Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.

**B. Conditions to avoid** : No specific data.

**C. Incompatible materials** : No specific data.

## Section 10. Stability and reactivity

- D. Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

- A. Information on the likely routes of exposure** : Not available.

### Potential acute health effects

- Inhalation** : No known significant effects or critical hazards.  
**Ingestion** : No known significant effects or critical hazards.  
**Skin contact** : May cause an allergic skin reaction.  
**Eye contact** : No known significant effects or critical hazards.

### Over-exposure signs/symptoms

- Inhalation** : No specific data.  
**Ingestion** : No specific data.  
**Skin contact** : Adverse symptoms may include the following:  
irritation  
redness  
**Eye contact** : No specific data.

### **B. Health hazards**

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Benzophenone	LD50 Dermal	Rabbit	3535 mg/kg	-
	LD50 Oral	Rat	>10 g/kg	-
ammonia	LD50 Oral	Rat	350 mg/kg	-
3-iodo-2-propynyl butylcarbamate	LD50 Oral	Rat	1470 mg/kg	-
1,2-benzisothiazol-3(2H)-one	LD50 Oral	Rat	1020 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Titanium Dioxide	Skin - Mild irritant	Human	-	72 hours	-
ammonia	Eyes - Severe irritant	Rabbit	-	300 ug l 0.5 minutes	-
	Eyes - Severe irritant	Rabbit	-	1 mg	-
Nitrous acid, salts	Eyes - Mild irritant	Rabbit	-	250 ug	-
		Rabbit	-	24 hours	-
1,2-benzisothiazol-3(2H)-one	Skin - Mild irritant	Human	-	500 mg 48 hours 5 %	-

#### Sensitization

Not available.

#### CMR - ISHA Article 42 Occupational Exposure Limits

Product/ingredient name	CAS number	Classification
Titanium dioxide	13463-67-7	CARCINOGENICITY - Category 2
Silica (Crystalline cristobalite)	14464-46-1	CARCINOGENICITY - Category 1A

#### Mutagenicity

Not available.

#### Carcinogenicity

Not available.



## Section 11. Toxicological information

### Classification

Product/ingredient name	OSHA	IARC	NTP	ACGIH
Titanium Dioxide	-	2B	-	A3
Benzophenone	-	2B	-	-
Cristobalite, respirable powder	+	1	Known to be a human carcinogen.	A2

### Reproductive toxicity

Not available.

### Teratogenicity

Not available.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Cristobalite, respirable powder	Category 1	inhalation	respiratory tract
3-iodo-2-propynyl butylcarbamate	Category 1	-	larynx

### Aspiration hazard

Not available.

### Potential chronic health effects

### Chronic toxicity

Not available.

- General** : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
- Carcinogenicity** : May cause cancer. Risk of cancer depends on duration and level of exposure.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : No known significant effects or critical hazards.

### ATE value

Route	Result
Inhalation (vapors)	2873.46 mg/l

## Section 12. Ecological information

### A. Ecotoxicity

Product/ingredient name	Result	Species	Exposure
Titanium Dioxide	Acute LC50 >1000000 µg/l Marine water	Fish - <i>Fundulus heteroclitus</i>	96 hours
Benzophenone	Acute LC50 10.89 mg/l Fresh water	Fish - <i>Pimephales promelas</i> - Larvae	96 hours
	Chronic NOEC 1.03 mg/l Fresh water	Fish - <i>Pimephales promelas</i> - Embryo	32 days
ammonia	Acute LC50 37 ppm Fresh water	Fish - <i>Gambusia affinis</i> - Adult	96 hours
3-iodo-2-propynyl butylcarbamate	Acute LC50 500 ppb Fresh water	Crustaceans - <i>Hyalella azteca</i>	48 hours
	Acute LC50 40 ppb Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours



## Section 12. Ecological information

Nitrous acid, salts	Acute LC50 67 µg/l Fresh water	Fish - <i>Oncorhynchus mykiss</i> - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Chronic NOEC 8.4 ppb	Fish - <i>Pimephales promelas</i>	35 days
	Acute EC50 159000 µg/l Marine water	Algae - <i>Tetraselmis chuii</i>	72 hours
	Acute EC50 1600000 µg/l Marine water	Algae - <i>Tetraselmis chuii</i>	96 hours
	Acute LC50 1100 µg/l Fresh water	Crustaceans - <i>Cherax quadricarinatus</i>	48 hours
1,2-benzisothiazol-3(2H)-one	Acute LC50 18.75 mg/l Fresh water	Daphnia - <i>Daphnia similoides</i>	48 hours
	Acute LC50 0.16 µg/l Fresh water	Fish - <i>Ictalurus punctatus</i> - Fingerling	96 hours
	Chronic NOEC 0.1 mg/l	Daphnia - <i>Daphnia obtusa</i> - Neonate	21 days
	Chronic NOEC 0.01 mg/l Fresh water	Fish - <i>Oncorhynchus mykiss</i>	28 days
	Acute EC50 97 ppb Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 10 to 20 mg/l Fresh water	Crustaceans - <i>Ceriodaphnia dubia</i>	48 hours
	Acute LC50 167 ppb Fresh water	Fish - <i>Oncorhynchus mykiss</i>	96 hours

### B. Persistence and degradability

Not available.

### C. Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Benzophenone	-	12.02	Low

### D. Mobility in soil

Soil/water partition coefficient (K<sub>oc</sub>) : Not available.

E. Other adverse effects : No known significant effects or critical hazards.

## Section 13. Disposal considerations

- A. 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.
- B. Disposal precautions** : 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	IATA
A. UN number	Not regulated.	Not regulated.	Not regulated.
B. UN proper shipping name	Not regulated.	-	Not regulated.
C. Transport hazard class(es)	Not regulated.	Not regulated.	Not regulated.
D. Packing group	Not regulated.	Not regulated.	Not regulated.
E. Environmental hazards	No.	No.	No.

**F. 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 to IMO instruments** : Not available.

## Section 15. Regulatory information

### A. Regulation according to ISHA

**ISHA article 117 (Harmful substances prohibited from manufacture)** : None of the components are listed.

**ISHA article 118 (Harmful substances requiring permission)** : None of the components are listed.

**Article 2 of Youth Protection Act on Substances Hazardous to Youth** : Not applicable.

### Exposure Limits of Chemical Substances and Physical Factors

The following components have an OEL:

Titanium Dioxide  
Cristobalite, respirable powder  
ammonia

**ISHA Enforcement Regs Annex 19 (Exposure standards established for harmful factors)** : None of the components are listed.

**ISHA Enforcement Regs Annex 21 (Harmful factors subject to Work Environment Measurement)** : The following components are listed: titanium dioxide

**ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health Check-up)** : None of the components are listed.

## Section 15. Regulatory information

**Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control)** : The following components are listed: titanium dioxide

### B. Regulation according to Chemicals Control Act

**Article 11 (TRI)** : None of the components are listed.

**Article 18 Prohibited (K-Reach Article 27)** : None of the components are listed.

**Article 19 Subject to authorization (K-Reach Article 25)** : None of the components are listed.

**Article 20 Toxic Chemicals (K-Reach Article 20)** : Not applicable

**Article 20 Restricted (K-Reach Article 27)** : None of the components are listed.

**Article 39 (Accident Precaution Chemicals)** : None of the components are listed.

**Existing Chemical Substances Subject to Registration** : The following components are listed: 2-(2-butoxyethoxy)ethanol, Quartz, 1,2-Benzisothiazol-3(2H)-one, Potassium hydroxide, 5-Chloro-2-methyl-3(2H)-isothiazolone, mixt. With 2-methyl-3(2H)-isothiazolone, 2-Methyl-4-isothiazolin-3-one

**C. Dangerous Materials Safety Management Act** : Not available.

**D. Wastes regulation** : Dispose of contents and container in accordance with all local, regional, national and international regulations.

### E. Regulation according to other foreign laws

#### International regulations

##### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

##### Montreal Protocol

Not listed.

##### Stockholm Convention on Persistent Organic Pollutants

Not listed.

##### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

##### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

#### Inventory list

**Australia** : Not determined.

**Canada** : Not determined.

**China** : Not determined.

**Eurasian Economic Union** : **Russian Federation inventory**: Not determined.

**Japan** : **Japan inventory (CSCL)**: Not determined.  
**Japan inventory (ISHL)**: Not determined.

**New Zealand** : Not determined.

**Philippines** : Not determined.

## Section 15. Regulatory information

Republic of Korea	: Not determined.
Taiwan	: Not determined.
Thailand	: Not determined.
Turkey	: Not determined.
United States	: Not determined.
Viet Nam	: Not determined.

## Section 16. Other information

A. References : Not available.

B. Date of issue/Date of revision : 9/17/2023

C. Version : 9

Date of printing : 9/17/2023

D. Other

Indicates information that has changed from previously issued version.

**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 = Intermediate 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)  
N/A = Not available  
SGG = Segregation Group  
UN = United Nations

### Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.