

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Commercial Product Name: ALEXSEAL C5012-Topcoat Converter  
Brush  
Product No.: 4551100000000

Version	Revision Date:	SDS Number:	Date of last issue: 09/25/2023
2.5	11/14/2023	F-4551100000	Date of first issue: 05/28/2015

## SECTION 1. IDENTIFICATION

Product name : ALEXSEAL C5012-Topcoat Converter Brush

Product code : 4551100000000

### Manufacturer or supplier's details

Manufacturer, importer, supplier : Mankiewicz Coatings L.L.C

Address : 1200 Charleston Regional Parkway  
Charleston, South Carolina 29492  
USA

Telephone : +1 (843) 6547755

E-mail address : sdb\_info@umco.de

Emergency telephone : USA Toll free +1 866 928 0789 EN/FR/ES(Carechem International)  
Canada Toll free +1 800 579 7421 EN/FR (Carechem International)

### Recommended use of the chemical and restrictions on use

Recommended use : Industrial serial painting

## SECTION 2. HAZARDS IDENTIFICATION

### GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids : Category 3

Acute toxicity (Inhalation) : Category 4

Skin sensitization : Category 1

Specific target organ toxicity - single exposure : Category 3 (Respiratory system)

### GHS label elements



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Hazard pictograms

:



Signal Word

:

Warning

Hazard Statements

:

H226 Flammable liquid and vapor.  
H317 May cause an allergic skin reaction.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.

Precautionary Statements

:

**Prevention:**

P210 Keep away from heat/ sparks/ open flames/ hot surfaces.  
No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P261 Avoid breathing mist or vapors.  
P271 Use only outdoors or in a well-ventilated area.  
P272 Contaminated work clothing must not be allowed out of the workplace.  
P280 Wear protective gloves/ eye protection/ face protection.

**Response:**

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P363 Wash contaminated clothing before reuse.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

**Storage:**

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P403 + P235 Store in a well-ventilated place. Keep cool.  
P405 Store locked up.



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### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

### Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Hardener based on polyisocyanates

### Components

Chemical name	CAS-No.	Concentration (% w/w)
Hexamethylene diisocyanate, oligomers	28182-81-2	$\geq 40 - \leq 100$

These contain:

hexamethylene diisocyanate	822-06-0	$> 0.25 - \leq 0.5$
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Actual concentration is withheld as a trade secret

## SECTION 4. FIRST AID MEASURES

- General advice : In all cases of doubt, or when sickness symptoms persist, seek medical attention.  
Never give anything by mouth to an unconscious person.
- If inhaled : Remove to fresh air, keep patient warm and at rest.  
Irregular breathing/no breathing: artificial respiration.  
If unconscious place in recovery position and seek medical advice.
- In case of skin contact : Take off all contaminated clothing immediately.  
Wash skin thoroughly with soap and water or use recognised skin cleanser.  
Do NOT use solvents or thinners !
- In case of eye contact : Remove contact lenses, irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart and seek medical advice.
- If swallowed : Do NOT induce vomiting.  
If accidentally swallowed obtain immediate medical attention.  
Never give anything by mouth to an unconscious person.



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Keep at rest.

Most important symptoms and effects, both acute and delayed : May cause an allergic skin reaction.  
Harmful if inhaled.  
May cause respiratory irritation.

## SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Alcohol resistant foam, CO2, powders
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire fighting : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.
- Further information : Cool endangered containers with water in case of fire.  
**DO NOT ALLOW RUN-OFF FROM FIRE FIGHTING TO ENTER DRAINS OR WATER COURSES!!**
- Special protective equipment for fire-fighters : As in any fire, wear self-contained breathing apparatus pressure - demand, MSHA / NIOSH (approved or equivalent) and full protective gear.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Exclude sources of ignition and ventilate the area.  
Do not inhale vapors.  
Refer to protective measures listed in sections 7 and 8.  
Evacuate personnel to safe areas.  
Immediately clean contaminated areas with following substances:
- |                                 |          |
|---------------------------------|----------|
| Water                           | 45 Vol.% |
| Ethanol or Isopropyl Alcohol    | 50 Vol.% |
| Ammonia solution (density=0,88) | 5 Vol.%  |
- Alternative applicable to that (not flammable):
- |                  |          |
|------------------|----------|
| Sodium Carbonate | 5 Vol.%  |
| Water            | 95 Vol.% |
- Environmental precautions : Do not let product enter drains.  
If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.  
Add the specified decontamination material to the remnants



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and let stand for several days until no further reaction is observed. Once this stage is reached, close container and dispose according to local regulations.

Methods and materials for containment and cleaning up : Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13).  
Clean preferably with a detergent; avoid use of solvents.

## SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : The product should only be used in areas from which all naked lights and other sources of ignition have been excluded.  
Preparation may charge electrostatically: always use earthing leads when transferring from one container to another.  
Operators should wear anti-static footwear and clothing. No sparking tools should be used.  
Vapors are heavier than air and may spread along floors.  
Vapors may form explosive mixtures with air.

Advice on safe handling : Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this preparation is used !  
Prevent the creation of flammable or explosive concentrations of vapor in air and avoid vapor concentrations higher than the occupational exposure limits.  
Comply with the health and safety at work laws.  
Smoking, eating and drinking should be prohibited in the application area.

Conditions for safe storage : Electrical equipment should be protected to the appropriate standard. Floors should be of the conducting type.  
Keep container tightly closed. Never use pressure to empty: container is not a pressure vessel. No smoking. Prevent unauthorized access.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Further information on storage conditions : Always keep in containers of same material as the original one. See also instructions on the label. Avoid heating and direct sunlight.  
Keep container dry in a cool, well-ventilated place.



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Precautions should be taken to minimise exposure to atmospheric humidity or water: CO<sub>2</sub> will be formed which in closed containers can result in pressurisation. **DO NOT KEEP THE CONTAINERS SEALED !!**

Materials to avoid : Keep away from oxidizing agents and strongly acid or alkaline materials.

Recommended storage temperature : 41 - 95 °F / 5 - 35 °C

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

**Engineering measures** : Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and below the OEL (= Occupational Exposure Limit), suitable respiratory protection must be worn.

### Personal protective equipment

Respiratory protection : By spraying: air-fed respirator(MHSA/NIOSH approved)

By other operations than spraying: in well ventilated areas, air-fed respirators could be replaced by a combination of charcoal filter and particulate filter mask(it should be MSHA/NIOSH approved).  
Use MSHA/NIOSH approved respirator if concentration exceeds recommended exposure levels.

### Hand protection

Remarks : Glove permeation data does not exist for this material. The following glove(s) should be used for splash protection only:  
Appropriate material: nitrile

Eye protection : Use safety glasses or face shield (ANSI Z87.1 or approved equivalent).



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- Skin and body protection : Depending on the probability of the occurrence of dangerously explosive atmospheres, adapted protective clothing must be worn.
- Protective measures : Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this preparation is used.  
Do not eat or drink during work - no smoking.  
Avoid product contact with skin, eyes and clothing.  
Avoid the inhalation of dust from sanding, particulates and spray mist arising from the application of this preparation.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : liquid (68 - 77 °F / 20 - 25 °C, 1,013 hPa)
- Color : according product name
- Odor : characteristic
- pH : substance/mixture is non-soluble (in water)
- : No data available
- Boiling point/boiling range : ca. 248 °F / 120 °C
- Flash point : 77 °F / 25 °C  
Method: ISO 13736
- Flammability (liquids) : No data available
- Upper explosion limit / Upper flammability limit : 10.0 %(V)



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Lower explosion limit / Lower flammability limit : 1.0 %(V)

Vapor pressure : ca. 100 hPa (122 °F / 50 °C)

Relative vapor density : No data available

Density : 9.01 lb/gal (1.08 g/cm<sup>3</sup>)  
(68 °F / 20 °C)

Solubility(ies)  
Water solubility : insoluble

Autoignition temperature : > 752 °F / > 400 °C

Decomposition temperature : No data available

Viscosity  
Viscosity, kinematic : > 21 mm<sup>2</sup>/s

Flow time : < 59 s  
Cross section: 4 mm  
Method: DIN 53211

< 39 s  
Cross section: 6 mm  
Method: ISO 2431

## SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : No dangerous reaction known under conditions of normal use.  
There are no data available on the preparation itself.

Conditions to avoid : Stable under recommended storage and handling conditions  
(See section 7).

Incompatible materials : Keep away from oxidizing agents, strongly alkaline and strongly acidic materials in order to avoid exothermic reactions.





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The product reacts slowly with water resulting in evolution of carbon dioxide. In closed containers, pressure build up could result distortion blowing and in extreme cases bursting of the container.

Hazardous decomposition products : In a fire, hazardous decomposition products, such as smoke, carbon monoxide, carbon dioxide, oxides of nitrogen, hydrogen cyanide, monomers of isocyanates, amines and alcohols may be produced.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

Harmful if inhaled.

### Product:

Acute inhalation toxicity : Assessment: The substance/mixture is not toxic on inhalation as defined by dangerous goods regulations.

Acute toxicity estimate: 14.67 mg/l

Exposure time: 4 h

Test atmosphere: vapor

Method: Calculation method

### Components:

#### Hexamethylene diisocyanate, oligomers:

Acute inhalation toxicity : Assessment: The substance/mixture is not toxic on inhalation as defined by dangerous goods regulations.

### Skin corrosion/irritation

Not classified due to lack of data.

### Serious eye damage/eye irritation

Not classified due to lack of data.

### Respiratory or skin sensitization

#### Skin sensitization

May cause an allergic skin reaction.

#### Respiratory sensitization

Not classified due to lack of data.



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## Components:

### Hexamethylene diisocyanate, oligomers:

Species : Mouse  
Assessment : May cause sensitization by skin contact.  
Method : OECD Test Guideline 406

### Germ cell mutagenicity

Not classified due to lack of data.

### Carcinogenicity

Not classified due to lack of data.

**IARC** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### Reproductive toxicity

Not classified due to lack of data.

### STOT-single exposure

May cause respiratory irritation.

## Components:

### Hexamethylene diisocyanate, oligomers:

Assessment : May cause respiratory irritation.

### STOT-repeated exposure

Not classified due to lack of data.

### Aspiration toxicity

Not classified due to lack of data.

### Further information

## Product:

Remarks : Exposure of vapor concentration in excess of the stated OEL's may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on



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kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue muscular weakness, drowsiness and in extrem cases, loss of consciousness. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage.

Based on the properties of the isocyanate components and considering toxicological data on similar preparations: This preparation may cause acute irritation and/or sensitization of the respiratory system leading to an asthmatic condition, wheeziness and a tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Repeated exposure may lead to permanent respiratory disability.

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Product:

#### Ecotoxicology Assessment

Acute aquatic toxicity : There are no data available on the preparation itself.

### Persistence and degradability

#### Product:

Biodegradability : Remarks: There are no data available on the preparation itself.

### Bioaccumulative potential

#### Product:

Bioaccumulation : Remarks: There are no data available on the preparation itself.

### Mobility in soil

#### Product:

Mobility : Remarks: There are no data available on the preparation itself.



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self.

## Other adverse effects

### Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances  
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : There are no data available on the preparation itself.

The product should not be allowed to enter drains or water courses.

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : Dispose of in accordance with local regulations.

Contaminated packaging : Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.

## SECTION 14. TRANSPORT INFORMATION

### International Regulations

#### IATA-DGR

UN/ID No. : UN 1263  
Proper shipping name : PAINT RELATED MATERIAL  
Class : 3  
Packing group : III  
Labels : Flammable Liquids  
Packing instruction (cargo aircraft) : 366  
Packing instruction (passenger aircraft) : 355



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## IMDG-Code

UN number : UN 1263  
Proper shipping name : PAINT RELATED MATERIAL

Class : 3  
Packing group : III  
Labels : 3  
EmS Code : F-E, S-E  
Marine pollutant : no

## Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

## Domestic regulation

### 49 CFR

UN/ID/NA number : UN 1263  
Proper shipping name : PAINT RELATED MATERIAL

Class : 3  
Packing group : III  
Labels : FLAMMABLE LIQUID  
Marine pollutant : no

## Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## SECTION 15. REGULATORY INFORMATION

### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : Fire Hazard  
Acute Health Hazard  
Flammable (gases, aerosols, liquids, or solids)  
Acute toxicity (any route of exposure)  
Respiratory or skin sensitization  
Specific target organ toxicity (single or repeated exposure)



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**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

## Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR 61):

hexamethylene diisocyanate 822-06-0 >= 0.1 - < 1 %

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

VOC content excluding water : 2.25 lb/gal (270 g/l)

For the calculation of VOC values in this section all substances have been considered which fall under the definition of VOC according to 40 CFR 51.100. Additionally, the calculation complies with the requirements of SCAQMD Rule 1106.1, amended February 12, 1999.

## Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

## US State Regulations

### Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

### Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

### Maine Chemicals of High Concern

Product does not contain any listed chemicals

### Vermont Chemicals of High Concern

Product does not contain any listed chemicals

### Washington Chemicals of High Concern



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Product does not contain any listed chemicals

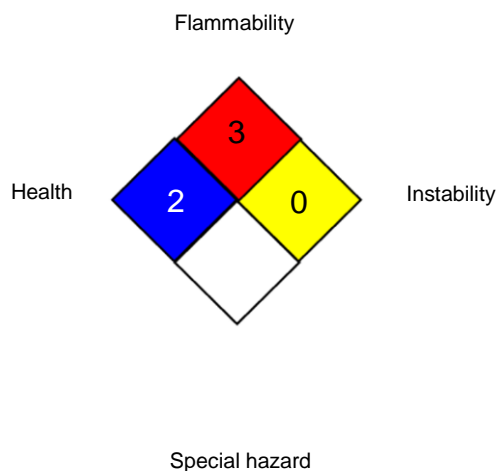
**The ingredients of this product are reported in the following inventories:**

TSCA : All substances listed as active on the TSCA inventory

## SECTION 16. OTHER INFORMATION

### Further information

#### NFPA 704:



Health  
0=Slightly Hazardous  
2=Hazardous  
3=Extreme danger  
4=Deadly

Flammability  
0=Will not burn  
2=Flashpoint below 200 F  
3=Flashpoint below 100 F  
4=Flashpoint below 73 F

Instability  
0=Stable  
1=Unstable if heated  
2=Violent chemical reaction; water reactive  
3=Shock or heat may detonate  
4=May detonate

#### HMIS® IV:

HEALTH	/	2
FLAMMABILITY		3
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "/" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.



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Special hazard  
SA Simple Asphyxiant  
ACID Acid  
OX Oxidizer  
W Water Reactive  
CORR Corrosive

## Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECL - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

The information given in this material safety data sheet does not release the user from its duty of risk assessment and control in the work place defined in other health and safety law.  
Adhere to the national sanitary and occupational safety regulations when using this product.





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This SDS have been created to comply with The Hazard Communication Standard (HCS)(29 CFR 1910.1200).

This SDS have been created to comply with the Hazardous Products Regulations(SOR/2015-17).

Revision Date : 11/14/2023

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / Z8

