# SAFETY DATA SHEET
**DOW SILICONES CORPORATION**

**Product name: DOWSIL™ TC-6032 Thermally Conductive Encapsulant Part B**

**Issue Date:** 04/09/2024

**Print Date:** 08/29/2024

DOW SILICONES CORPORATION encourages and expects you to read and understand the entire (M)SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

## 1. IDENTIFICATION

**Product name:** DOWSIL™ TC-6032 Thermally Conductive Encapsulant Part B

**Recommended use of the chemical and restrictions on use**
**Identified uses:** Electronics Manufacture of electronic components

**COMPANY IDENTIFICATION**
DOW SILICONES CORPORATION
2200 WEST SALZBURG ROAD
MIDLAND MI 48686-0994
UNITED STATES

**Customer Information Number:** 800-258-2436
SDSQuestion@dow.com

**EMERGENCY TELEPHONE NUMBER**
**24-Hour Emergency Contact:** 1 800 424 9300
**Local Emergency Contact:** 800-424-9300

## 2. HAZARDS IDENTIFICATION

**Hazard classification**
GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)
Reproductive toxicity - Category 1B

**Label elements**
**Hazard pictograms**

Signal word: **DANGER!**

**Hazards**
May damage fertility or the unborn child.

**Precautionary statements**

**Prevention**
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
Keep only in original container.
Wear protective gloves, protective clothing, eye protection and/or face protection.

**Response**
IF exposed or concerned: Get medical advice and/or attention.

**Storage**
Store in a well-ventilated place.
Store locked up.

**Disposal**
Dispose of contents and/or container to an approved waste disposal plant.

**Other hazards**
May generate flammable hydrogen gas. Avoid contact with water, alcohols, acidic, basic, or oxidizing materials.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical nature:** Silicone compound
This product is a mixture.

| Component | CASRN | Concentration |
|---|---|---|
| Siloxane and n-Alkyl modified Alumina | Not available | >= 69.0 - <= 88.0 % |
| Methylvinylcyclosiloxane | 2554-06-5 | >= 0.0096 - <= 0.2 % |
| 1-Ethynylcyclohexanol | 78-27-3 | >= 0.005 - <= 0.1 % |

## 4. FIRST AID MEASURES

**Description of first aid measures**
**General advice:**
If potential for exposure exists refer to Section 8 for specific personal protective equipment.

**Inhalation:** Move person to fresh air and keep comfortable for breathing; consult a physician.

**Skin contact:** Wash off with plenty of water.

**Eye contact:** Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.

**Ingestion:** Rinse mouth with water. No emergency medical treatment necessary.

**Most important symptoms and effects, both acute and delayed:**
May damage fertility or the unborn child.

**Indication of any immediate medical attention and special treatment needed**
**Notes to physician:** No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

## 5. FIREFIGHTING MEASURES

**Extinguishing media**

**Suitable extinguishing media:** Alcohol-resistant foam. Carbon dioxide (CO2). Water spray.

**Unsuitable extinguishing media:** Dry chemical.

**Special hazards arising from the substance or mixture**

**Hazardous combustion products:** Silicon oxides. Metal oxides. Formaldehyde. Carbon oxides.

**Unusual Fire and Explosion Hazards:** Applying foam will release significant amounts of hydrogen gas that can be trapped under the foam blanket.. Exposure to combustion products may be a hazard to health..

**Advice for firefighters**

**Fire Fighting Procedures:** Use water spray to cool unopened containers.. Evacuate area.. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations..
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Do not allow extinguishing medium to contact container contents. Most fire extinguishing media will cause hydrogen evolution, and once the fire is put out, may accumulate in poorly ventilated or confined areas and result in flash fire or explosion if ignited. Remove undamaged containers from fire area if it is safe to do so.

**Special protective equipment for firefighters:** In the event of fire, wear self-contained breathing apparatus.. Use personal protective equipment..

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** Use personal protective equipment. Follow safe handling advice and personal protective equipment recommendations.

**Environmental precautions:** Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

**Methods and materials for containment and cleaning up:** Soak up with inert absorbent material. Clean up remaining materials from spill with suitable absorbant. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Materials in contact with water, moisture, acids or bases have the potential to generate hydrogen gas. Recovered material should be stored in a vented container. The vent must prevent the ingress of water as further reaction with spilled materials can take place which could lead to overpressurization of the container.
See sections: 7, 8, 11, 12 and 13.

## 7. HANDLING AND STORAGE

**Precautions for safe handling:** Do not get on skin or clothing. Do not breathe vapours or spray mist. Avoid contact with eyes. Do not swallow. Keep container tightly closed. Keep away from water. Protect from moisture. Take care to prevent spills, waste and minimize release to the environment. Handle in accordance with good industrial hygiene and safety practice. CONTAINERS MAY BE HAZARDOUS WHEN EMPTY. Since emptied containers retain product residue follow all (M)SDS and label warnings even after container is emptied.
Use with local exhaust ventilation. See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

**Conditions for safe storage:** Keep in properly labelled containers. Store in original container. Store locked up. Keep tightly closed. Product may evolve minute quantities of flammable hydrogen gas which can accumulate. Adequately ventilate to maintain vapors well below flammability limits and exposure guidelines. Do not repackage. Clogged container vents may increase pressure build up. Store in accordance with the particular national regulations. Store in a closed container.

Do not store with the following product types: Strong oxidizing agents. Organic peroxides. Explosives. Gases.
Unsuitable materials for containers**:** Do not store in or use containers except the original product package.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**
If exposure limits exist, they are listed below. If no exposure limits are displayed, then no values are applicable.

| Component | Regulation | Type of listing | Value |
|---|---|---|---|
| Siloxane and n-Alkyl modified Alumina | OSHA Z-1 | TWA total dust | 15 mg/m3 |
| | OSHA Z-1 | TWA respirable fraction | 5 mg/m3 |

| | | | |
|---|---|---|---|
| | ACGIH | TWA Respirable particulate matter | 1 mg/m3 , Aluminium |
| | Further information: A4: Not classifiable as a human carcinogen | | |

**Exposure controls**
**Engineering controls:** Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

**Individual protection measures**

**Eye/face protection:** Use safety glasses (with side shields).

**Skin protection**

**Hand protection:** Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur. Examples of preferred glove barrier materials include: Butyl rubber. Natural rubber ("latex"). Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Ethyl vinyl alcohol laminate ("EVAL"). Polyvinyl chloride ("PVC" or "vinyl"). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

**Other protection:** Wear clean, body-covering clothing.

**Respiratory protection:** Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions, no respiratory protection should be needed; however, if handling at elevated temperatures without sufficient ventilation, use an approved air-purifying respirator.
The following should be effective types of air-purifying respirators: Organic vapor cartridge.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| **Appearance** | |
| **Physical state** | viscous liquid |
| **Color** | blue |
| **Odor** | Odorless |
| **Odor Threshold** | No data available |
| **pH** | *No data available.* |
| **Melting point/range** | No data available |
| **Freezing point** | No data available |
| **Boiling point (760 mmHg)** | > 35 °C ( > 95 °F) |
| **Flash point** | **Pensky-Martens closed cup** > 100 °C ( > 212 °F)<br>**Cleveland open cup** > 250 °C ( > 482 °F) |

| | |
|---|---|
| **Evaporation Rate (Butyl Acetate = 1)** | No data available |
| **Flammability (solid, gas)** | Not Applicable |
| **Flammability (liquids)** | Not classified as supporting combustion according to the transport regulations. |
| **Lower explosion limit** | No data available |
| **Upper explosion limit** | No data available |
| **Vapor Pressure** | No data available |
| **Relative Vapor Density (air = 1)** | No data available |
| **Relative Density (water = 1)** | 2.7 |
| **Water solubility** | insoluble |
| **Partition coefficient: n-octanol/water** | No data available |
| **Auto-ignition temperature** | > 100 °C (> 212 °F) |
| **Decomposition temperature** | No data available |
| **Dynamic Viscosity** | 4,500 mPa.s at 25 °C (77 °F) |
| **Kinematic Viscosity** | > 20.5 mm2/s at 40 °C (104 °F) |
| **Explosive properties** | No data available |
| **Oxidizing properties** | The substance or mixture is not classified as oxidizing. |
| **Molecular weight** | No data available |

NOTE: The physical data presented above are typical values and should not be construed as a specification.

## 10. STABILITY AND REACTIVITY

**Reactivity:** Not classified as a reactivity hazard.

**Chemical stability:** Stable under normal conditions.

**Possibility of hazardous reactions:** Can react with strong oxidizing agents. Product may evolve flammable hydrogen gas on contact with water, alcohols, acidic or basic materials, many metals or metallic compounds and can form explosive mixtures in air. Hazardous decomposition products will be formed at elevated temperatures.

**Conditions to avoid:** Exposure to moisture

**Incompatible materials:** Avoid contact with oxidizing materials.

**Hazardous decomposition products:**
Decomposition products can include and are not limited to: Formaldehyde.

## 11. TOXICOLOGICAL INFORMATION

*Toxicological information appears in this section when such data are available.*

**Information on likely routes of exposure**
Inhalation, Eye contact, Skin contact, Ingestion.

**Acute toxicity (represents short term exposures with immediate effects - no chronic/delayed effects known unless otherwise noted)**

**Acute Toxicity Endpoints:**
Not classified due to lack of data.

**Acute oral toxicity**

**Information for the Product:**

Very low toxicity if swallowed. Signs and symptoms of excessive exposure may include: Gastrointestinal irritation.

As product: Single dose oral LD50 has not been determined.

Based on information for component(s):
LD50, > 5,000 mg/kg Estimated.

**Information for components:**

**Siloxane and n-Alkyl modified Alumina**
Based on data from similar materials LD50, Rat, > 5,000 mg/kg

**Methylvinylcyclosiloxane**
LD50, Rat, > 15,000 mg/kg

**1-Ethynylcyclohexanol**
LD50, Rat, 590 mg/kg

**Acute dermal toxicity**

**Information for the Product:**

Prolonged skin contact is unlikely to result in absorption of harmful amounts.

As product: The dermal LD50 has not been determined.

Based on information for component(s):
LD50, > 5,000 mg/kg Estimated.

**Information for components:**

**Siloxane and n-Alkyl modified Alumina**
Based on data from similar materials LD50, Rabbit, > 5,000 mg/kg Estimated.

**Methylvinylcyclosiloxane**
The dermal LD50 has not been determined.

Based on testing for product(s) in this family of materials: LD50, > 2,000 mg/kg Estimated.

**1-Ethynylcyclohexanol**
LD50, Rabbit, 976 mg/kg

**Acute inhalation toxicity**

**Information for the Product:**

Brief exposure (minutes) is not likely to cause adverse effects. Vapor from heated material may cause respiratory irritation.

As product: The LC50 has not been determined.

**Information for components:**

**Siloxane and n-Alkyl modified Alumina**
The LC50 has not been determined.

For similar material(s): LC50, Rat, male and female, dust/mist, > 2.3 mg/l No deaths occurred at this concentration.

**Methylvinylcyclosiloxane**
LC50, Rat, male and female, 4 Hour, vapour, > 1.32 mg/l No deaths occurred at this concentration.

**1-Ethynylcyclohexanol**
LC50, 4 Hour, vapour, > 50 mg/l Estimated.

**Skin corrosion/irritation**

Not classified due to lack of data.

**Information for the Product:**

Based on information for component(s):
Brief contact is essentially nonirritating to skin.

**Information for components:**

**Siloxane and n-Alkyl modified Alumina**
For similar material(s):
Brief contact is essentially nonirritating to skin.

**Methylvinylcyclosiloxane**
Brief contact may cause slight skin irritation with local redness.

**1-Ethynylcyclohexanol**
Brief contact may cause skin irritation with local redness.

**Serious eye damage/eye irritation**

Not classified due to lack of data.

**Information for the Product:**

Based on information for component(s):
May cause slight temporary eye irritation.
May cause mild eye discomfort.

**Information for components:**

**Siloxane and n-Alkyl modified Alumina**
For similar material(s):
Essentially nonirritating to eyes.

**Methylvinylcyclosiloxane**
May cause slight eye irritation.

**1-Ethynylcyclohexanol**
May cause moderate eye irritation which may be slow to heal.

**Sensitization**

**For skin sensitization:**
Not classified due to lack of data.

**For respiratory sensitization:**
Not classified due to lack of data.

**Information for the Product:**

For skin sensitization:
Contains component(s) which did not cause allergic skin sensitization in guinea pigs.

For respiratory sensitization:
No relevant data found.

**Information for components:**

**Siloxane and n-Alkyl modified Alumina**
For skin sensitization:
No relevant data found.

For respiratory sensitization:
No relevant data found.

**Methylvinylcyclosiloxane**
For skin sensitization:
No relevant data found.

For respiratory sensitization:
No relevant data found.

**1-Ethynylcyclohexanol**
Did not demonstrate the potential for contact allergy in mice.

For respiratory sensitization:
No relevant data found.

**Specific Target Organ Systemic Toxicity (Single Exposure)**

Not classified due to lack of data.

**Information for the Product:**

Product test data not available.

**Information for components:**

**Siloxane and n-Alkyl modified Alumina**
Evaluation of available data suggests that this material is not an STOT-SE toxicant.

**Methylvinylcyclosiloxane**
Evaluation of available data suggests that this material is not an STOT-SE toxicant.

**1-Ethynylcyclohexanol**
Available data are inadequate to determine single exposure specific target organ toxicity.

**Aspiration Hazard**

Not classified due to lack of data.

**Information for the Product:**

Based on physical properties, not likely to be an aspiration hazard.

**Information for components:**

**Siloxane and n-Alkyl modified Alumina**
Based on physical properties, not likely to be an aspiration hazard.

**Methylvinylcyclosiloxane**
Based on available information, aspiration hazard could not be determined.

**1-Ethynylcyclohexanol**
Based on available information, aspiration hazard could not be determined.

**Chronic toxicity (represents longer term exposures with repeated dose resulting in chronic/delayed effects - no immediate effects known unless otherwise noted)**

**Specific Target Organ Systemic Toxicity (Repeated Exposure)**

Not classified due to lack of data.

**Information for the Product:**

Product test data not available.

**Information for components:**

**Siloxane and n-Alkyl modified Alumina**
No relevant data found.

**Methylvinylcyclosiloxane**
No relevant data found.

**1-Ethynylcyclohexanol**
Based on available data, repeated exposures are not anticipated to cause significant adverse effects.

**Carcinogenicity**

Not classified due to lack of data.

**Information for the Product:**

Product test data not available.

**Information for components:**

**Siloxane and n-Alkyl modified Alumina**
No relevant data found.

**Methylvinylcyclosiloxane**
No relevant data found.

**1-Ethynylcyclohexanol**
No relevant data found.

**Teratogenicity**

May damage fertility or the unborn child.

**Information for the Product:**

Product test data not available.

**Information for components:**

**Siloxane and n-Alkyl modified Alumina**
No relevant data found.

**Methylvinylcyclosiloxane**
Has been toxic to the fetus in lab animals at doses nontoxic to the mother.

**1-Ethynylcyclohexanol**
Did not cause birth defects or any other fetal effects in laboratory animals.

**Reproductive toxicity**

May damage fertility or the unborn child.

**Information for the Product:**

Product test data not available.

**Information for components:**

**Siloxane and n-Alkyl modified Alumina**
No relevant data found.

**Methylvinylcyclosiloxane**
In animal studies, has been shown to interfere with fertility.

**1-Ethynylcyclohexanol**
In animal studies, did not interfere with reproduction.

**Mutagenicity**

Not classified due to lack of data.

**Information for the Product:**

Product test data not available.

**Information for components:**

**Siloxane and n-Alkyl modified Alumina**
No relevant data found.

**Methylvinylcyclosiloxane**
In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative.

**1-Ethynylcyclohexanol**
In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative.

## 12. ECOLOGICAL INFORMATION

*Ecotoxicological information appears in this section when such data are available.*

**Toxicity**

**Siloxane and n-Alkyl modified Alumina**

**Acute toxicity to fish**
No relevant data found.

**Methylvinylcyclosiloxane**

**Acute toxicity to fish**
Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested).
LC50, Cyprinodon variegatus (sheepshead minnow), 96 Hour, > 1,000 mg/l

**Acute toxicity to aquatic invertebrates**
EL50, Acartia tonsa, 48 Hour, 221 mg/l, ISO 14669 and PARCOM method

**Acute toxicity to algae/aquatic plants**
ErC50, Skeletonema sp., 72 Hour, > 988 mg/l, ISO 10253

**1-Ethynylcyclohexanol**

**Acute toxicity to fish**
Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested).
LC50, Leuciscus idus (Golden orfe), 96 Hour, > 220 - 460 mg/l

**Acute toxicity to aquatic invertebrates**
EC50, Daphnia magna (Water flea), 48 Hour, 159 mg/l

**Acute toxicity to algae/aquatic plants**
EC50, Desmodesmus subspicatus (green algae), 72 Hour, > 500 mg/l

**Persistence and degradability**

**Siloxane and n-Alkyl modified Alumina**
**Biodegradability:** No relevant data found.

**Methylvinylcyclosiloxane**
**Biodegradability:** For similar material(s): Material is expected to biodegrade very slowly (in the environment). Fails to pass OECD/EEC tests for ready biodegradability.
10-day Window: Fail
**Biodegradation:** 3.7 %
**Exposure time:** 28 d
**Method:** OECD Test Guideline 310

**1-Ethynylcyclohexanol**
**Biodegradability:** Material has inherent, primary biodegradability according to OECD test (s) guidelines (reaches > 20% biodegradation in OECD test(s).
10-day Window: Not applicable
**Biodegradation:** 63 %
**Exposure time:** 28 d
**Method:** OECD Test Guideline 302B

**Bioaccumulative potential**

**Siloxane and n-Alkyl modified Alumina**
**Bioaccumulation:** No relevant data found.

**Methylvinylcyclosiloxane**
**Bioaccumulation:** Bioconcentration potential is high (BCF > 3000 or Log Pow between 5 and 7).
**Partition coefficient: n-octanol/water(log Pow):** 6.49

**1-Ethynylcyclohexanol**
**Bioaccumulation:** Bioconcentration potential is low (BCF < 100 or Log Pow < 3).
**Partition coefficient: n-octanol/water(log Pow):** 1.49

**Mobility in soil**

**Siloxane and n-Alkyl modified Alumina**

No relevant data found.

**Methylvinylcyclosiloxane**

No relevant data found.

**1-Ethynylcyclohexanol**

No relevant data found.

## 13. DISPOSAL CONSIDERATIONS

**Disposal methods:** DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility of the waste generator. AS YOUR SUPPLIER, WE HAVE NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN SDS SECTION 1: Identified Uses. FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: Incinerator or other thermal destruction device. For additional information, refer to: Handling & Storage Information, MSDS Section 7 Stability & Reactivity Information, MSDS Section 10 Regulatory Information, MSDS Section 15

**Treatment and disposal methods of used packaging:** Empty containers should be recycled or otherwise disposed of by an approved waste management facility. Waste characterizations and compliance with applicable laws are the responsibility of the waste generator. Do not re-use containers for any purpose.

## 14. TRANSPORT INFORMATION

**DOT**

Not regulated for transport

**Classification for SEA transport (IMO-IMDG):**

Not regulated for transport

| | |
|---|---|
| **Transport in bulk according to Annex I or II of MARPOL 73/78 and the IBC or IGC Code** | Consult IMO regulations before transporting ocean bulk |

**Classification for AIR transport (IATA/ICAO):**

Not regulated for transport

**Further information:**

VENTED PACKAGES ARE FORBIDDEN FOR AIR TRANSPORT.

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

## 15. REGULATORY INFORMATION

**Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312**
Reproductive toxicity

**Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313**
The following components are subject to reporting levels established by SARA Title III, Section 313:

| **Components** | **CASRN** |
|---|---|
| Siloxane and n-Alkyl modified Alumina | Not available |
| Silane modified Aluminum Trihydrate | Not available |

**Pennsylvania Right To Know**
The following chemicals are listed because of the additional requirements of Pennsylvania law:

| **Components** | **CASRN** |
|---|---|
| Siloxane and n-Alkyl modified Alumina | Not available |
| Silane modified Aluminum Trihydrate | Not available |
| Dimethyl Siloxane, Dimethylvinylsiloxy-terminated | 68083-19-2 |
| Siloxanes and Silicones, di-Me, hydrogen-terminated | 70900-21-9 |
| Siloxanes and Silicones, di-Me, Me hydrogen | 68037-59-2 |

**California Prop. 65**
WARNING: This product can expose you to chemicals including Hexamethyl phosphoramide, which is/are known to the State of California to cause cancer, and Methanol, Hexamethyl phosphoramide, Toluene, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

**United States TSCA Inventory (TSCA)**
All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

## 16. OTHER INFORMATION

**Hazard Rating System**

**NFPA**

| Health | Flammability | Instability |
|---|---|---|
| 1 | 1 | 0 |

**HMIS**

| Health | Flammability | Physical Hazard |
|---|---|---|
| 0* | 1 | 0 |

* = Chronic Effects (See Hazards Identification)

**Revision**

Identification Number: 99181807 / A713 / Issue Date: 04/09/2024 / Version: 4.0
Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this document.

**Legend**

| | |
|---|---|
| ACGIH | USA. ACGIH Threshold Limit Values (TLV) |
| OSHA Z-1 | USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants |
| TWA | 8-hour, time-weighted average |

**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; TECI - 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

**Information Source and References**

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

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