

SAFETY DATA SHEET

DOW SILICONES CORPORATION

Product name: DOWSIL™ Q4-2817 Fluorosilicone Sealant

Issue Date: 12/06/2022 Print Date: 12/07/2022

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™ Q4-2817 Fluorosilicone Sealant

Recommended use of the chemical and restrictions on use Identified uses: Construction materials and additives

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) Skin corrosion - Category 1C Serious eye damage - Category 1

Label elements Hazard pictograms



Signal word: DANGER!

Hazards

Causes severe skin burns and eye damage.

Precautionary statements

Prevention Do not breathe dust. Wash skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves, protective clothing, eye protection and/or face protection.

Response

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER and/or doctor.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER and/or doctor. Wash contaminated clothing before reuse. In case of fire: Avoid breathing fume.

Storage

Store locked up.

Disposal

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

Other hazards

No data available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature: Fluorosilicone elastomer

This product is a mixture.

Component	CASRN	Concentration
Ethyltriacetoxysilane	17689-77-9	>= 0.2 - <= 4.8 %
Methyltriacetoxysilane	4253-34-3	>= 0.2 - <= 4.6 %
Trifluoropropylmethyl cyclotrisiloxane	2374-14-3	>= 0.023 - <= 0.031 %

4. FIRST AID MEASURES

Description of first aid measures General advice:

First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). 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: Immediate continued and thorough washing in flowing water for at least 30 minutes is imperative while removing contaminated clothing. Prompt medical consultation is essential. Wash clothing before reuse. Properly dispose of leather items such as shoes, belts, and watchbands. Suitable emergency safety shower facility should be immediately available.

Eye contact: Wash immediately and continuously with flowing water for at least 30 minutes. Remove contact lenses after the first 5 minutes and continue washing. Obtain prompt medical consultation, preferably from an ophthalmologist. Suitable emergency eye wash facility should be immediately available.

Ingestion: Do not induce vomiting. Give one cup (8 ounces or 240 ml) of water or milk if available and transport to a medical facility. Do not give anything by mouth unless the person is fully conscious.

Most important symptoms and effects, both acute and delayed:

Causes serious eye damage. Causes severe burns.

Indication of any immediate medical attention and special treatment needed

Notes to physician: Maintain adequate ventilation and oxygenation of the patient. Chemical eye burns may require extended irrigation. Obtain prompt consultation, preferably from an ophthalmologist. If burn is present, treat as any thermal burn, after decontamination. 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). Dry chemical. Water spray.

Unsuitable extinguishing media: None known...

Special hazards arising from the substance or mixture

Hazardous combustion products: Silicon oxides. Fluorine compounds. Formaldehyde. Carbon oxides.

Unusual Fire and Explosion Hazards: Exposure to combustion products may be a hazard to health.. Toxic vapours are evolved.. Fire burns more vigorously than would be expected..

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. 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.. Wear neoprene gloves to prevent contact with hydrofluoric acid..

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Remove all sources of ignition. 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. 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: Wipe up or scrape up and contain for salvage or disposal. 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. Dispose of saturated absorbent or cleaning materials appropriately, since spontaneous heating may occur.

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 swallow. Do not get in eyes. Keep container tightly closed. 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 locked up. Keep tightly closed. Store in accordance with the particular national regulations.

Do not store with the following product types: Strong oxidizing agents. Organic peroxides. Explosives. Unsuitable materials for containers: None known.

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
Trifluoropropylmethyl cyclotrisiloxane	Dow IHG	TWA	5 Parts per billion

	Further information: SKIN: A	Absorbed via skin	
Acetic acid	ACGIH	TWA	10 ppm
	ACGIH	STEL	15 ppm
	OSHA Z-1	TWA	25 mg/m3 10 ppm
	OSHA P0	TWA	25 mg/m3 10 ppm

The following substance(s), which have Occupational Exposure Limit(s) (OEL), may be formed during handling or processing:, Acetic acid

Exposure controls

Engineering controls: Use engineering controls to maintain airborne level below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use only with adequate ventilation. Local exhaust ventilation may be necessary for some operations.

Individual protection measures

Eye/face protection: Use chemical goggles.

Skin protection

Hand protection: Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Chlorinated polyethylene. Polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). Polyvinyl alcohol ("PVA"). Viton. Examples of acceptable glove barrier materials include: Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). 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: Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task.

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.

The following should be effective types of air-purifying respirators: Organic vapor with acid gas filter.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Physical state Color Odor Odor Threshold pH Melting point/range Freezing point Boiling point (760 mmHg)

paste red acetic acid No data available Not applicable, substance/mixture is non-soluble (in water) No data available No data available Not applicable

Evaporation Rate (Butyl Acetate = 1)Not applicableFlammability (solid, gas)Not classified as a flammability hazardLower explosion limitNo data availableUpper explosion limitNo data availableVapor PressureNot applicableRelative Vapor Density (air = 1)No data availableRelative Density (water = 1)1.8Water solubilityinsolublePartition coefficient: n- octanol/waterNo data availableAuto-ignition temperatureNo data availableDecomposition temperatureNo data availableDynamic ViscosityNot applicableKinematic ViscosityNot applicableExplosive propertiesNot applicableOxidizing propertiesThe substance or mixture is not classified as oxidizing.Molecular weightNo data availableParticle sizeNo data available	Flash point	closed cup >101.1 °C (214.0 °F)
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Molecular weight No data available	Explosive properties	Not explosive
-	Oxidizing properties	The substance or mixture is not classified as oxidizing.
Particle size No data available	Molecular weight	No data available
	Particle size	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. When heated to temperatures above 180 °C (356 °F) in the presence of air, trace quantities of formaldehyde may be released. Adequate ventilation is required.

Conditions to avoid: None known.

Incompatible materials: Avoid contact with oxidizing materials.

Hazardous decomposition products:

Decomposition products can include and are not limited to: Formaldehyde. Hydrofluoric acid. 3,3,3-Trifluoropropionaldehyde. Acetic acid. Benzene.

11. TOXICOLOGICAL INFORMATION

Toxicological information appears in this section when such data is available.

Information on likely routes of exposure

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 based on available information.

Acute oral toxicity

Information for the Product:

Low toxicity if swallowed. Swallowing may result in irritation or burns of the mouth, throat, and gastrointestinal tract.

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

Based on information for component(s): LD50, Rat, > 2,000 mg/kg Estimated.

Information for components:

Ethyltriacetoxysilane On basis of test data. LD50, Rat, 380 mg/kg

<u>Methyltriacetoxysilane</u> LD50, Rat, male and female, 1,600 mg/kg OECD Test Guideline 401

Trifluoropropylmethyl cyclotrisiloxane

LD50, Rat, male and female, 4,650 mg/kg OECD 401 or equivalent

Acute dermal toxicity

Information for the Product:

Absorption has not been determined due to corrosivity.

Information for components:

<u>Ethyltriacetoxysilane</u> The dermal LD50 has not been determined.

Methyltriacetoxysilane

The dermal LD50 has not been determined.

<u>Trifluoropropylmethyl cyclotrisiloxane</u> LD50, Rabbit, male and female, > 20,000 mg/kg_OECD 402 or equivalent

Acute inhalation toxicity

Information for the Product:

Brief exposure (minutes) is not likely to cause adverse effects. Vapor may cause irritation of the upper respiratory tract (nose and throat).

As product: The LC50 has not been determined.

Information for components:

Ethyltriacetoxysilane

The LC50 has not been determined.

Methyltriacetoxysilane

The LC50 has not been determined.

Trifluoropropylmethyl cyclotrisiloxane

The LC50 has not been determined.

Skin corrosion/irritation

Causes severe burns.

Information for the Product:

Based on information for component(s): Brief contact may cause severe skin burns. Symptoms may include pain, severe local redness and tissue damage.

Information for components:

Ethyltriacetoxysilane

Brief contact may cause skin burns. Symptoms may include pain, severe local redness and tissue damage.

Methyltriacetoxysilane

Brief contact may cause skin burns. Symptoms may include pain, severe local redness and tissue damage.

Trifluoropropylmethyl cyclotrisiloxane

Brief contact is essentially nonirritating to skin.

Serious eye damage/eye irritation

Causes serious eye damage.

Information for the Product:

Based on information for component(s): May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness. Chemical burns may occur.

Information for components:

Ethyltriacetoxysilane

May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness. Chemical burns may occur.

Methyltriacetoxysilane

May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness. Chemical burns may occur.

Trifluoropropylmethyl cyclotrisiloxane

May cause slight eye irritation. Corneal injury is unlikely.

Sensitization

For skin sensitization: Not classified based on available information.

For respiratory sensitization:

Not classified based on available information.

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:

Ethyltriacetoxysilane

For skin sensitization: No relevant data found.

For respiratory sensitization: No relevant data found.

Methyltriacetoxysilane

For skin sensitization: Did not cause allergic skin reactions when tested in guinea pigs.

For respiratory sensitization: No relevant data found.

Trifluoropropylmethyl cyclotrisiloxane

For skin sensitization: Did not cause allergic skin reactions when tested in guinea pigs.

For respiratory sensitization: No relevant data found.

Specific Target Organ Systemic Toxicity (Single Exposure)

Not classified based on available information.

Information for the Product:

Product test data not available.

Information for components:

Ethyltriacetoxysilane

No data available

Methyltriacetoxysilane

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

Trifluoropropylmethyl cyclotrisiloxane

Available data are inadequate to determine single exposure specific target organ toxicity.

Aspiration Hazard

Not classified based on available information.

Information for the Product:

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

Information for components:

<u>Ethyltriacetoxysilane</u> Based on available information, aspiration hazard could not be determined.

Methyltriacetoxysilane

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

Trifluoropropylmethyl cyclotrisiloxane

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

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 based on available information.

Information for the Product:

Product test data not available.

Information for components:

Ethyltriacetoxysilane

No relevant data found.

Methyltriacetoxysilane

Repeated oral doses to laboratory animals resulted in injury to the gastrointestinal tract with some mortality.

Trifluoropropylmethyl cyclotrisiloxane

In animals, effects have been reported on the following organs: Liver Heart Muscles.

Carcinogenicity

Not classified based on available information.

Information for the Product:

Product test data not available.

Information for components:

Ethyltriacetoxysilane No relevant data found.

Methyltriacetoxysilane No relevant data found.

Trifluoropropylmethyl cyclotrisiloxane No relevant data found.

Teratogenicity

Not classified based on available information.

Information for the Product:

Product test data not available.

Information for components:

Ethyltriacetoxysilane

No relevant data found.

Methyltriacetoxysilane

No relevant data found.

Trifluoropropylmethyl cyclotrisiloxane

Has been toxic to the fetus in laboratory animals at doses toxic to the mother.

Reproductive toxicity

Not classified based on available information.

Information for the Product:

Product test data not available.

Information for components:

Ethyltriacetoxysilane No relevant data found.

Methyltriacetoxysilane

No relevant data found.

Trifluoropropylmethyl cyclotrisiloxane

In animal studies, has been shown to interfere with reproduction.

Mutagenicity

Not classified based on available information.

Information for the Product:

Product test data not available.

Information for components:

Ethyltriacetoxysilane

No relevant data found.

Methyltriacetoxysilane

In vitro genetic toxicity studies were negative.

Trifluoropropylmethyl cyclotrisiloxane

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 is available.

Toxicity

Ethyltriacetoxysilane

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). Material is not classified as dangerous to aquatic organisms (LC50/EC50/IC50/LL50/EL50 greater than 100 mg/L in most sensitive species). LC50, Danio rerio (zebra fish), 96 Hour, 251 mg/l, OECD Test Guideline 203

Acute toxicity to aquatic invertebrates

EC50, Daphnia sp. (water flea), 48 Hour, 62 mg/l, OECD Test Guideline 202

Acute toxicity to algae/aquatic plants

No relevant information found.

Toxicity to bacteria

Based on data from similar materials EC50, 3 Hour, > 100 mg/l, OECD Test Guideline 209

Methyltriacetoxysilane

Acute toxicity to fish For the hydrolysis product:

LC50, Danio rerio (zebra fish), semi-static test, 96 hrs, > 500 mg/l, Regulation (EC) No. 440/2008, Annex, C.1

Acute toxicity to aquatic invertebrates

For the hydrolysis product(s) EC50, Daphnia magna (Water flea), static test, 48 hrs, > 500 mg/l

Acute toxicity to algae/aquatic plants

For the hydrolysis product(s) ErC50, Pseudokirchneriella subcapitata (algae), static test, 72 hrs, Growth rate, > 500 mg/l For the hydrolysis product(s) NOEC, Pseudokirchneriella subcapitata (algae), static test, 72 hrs, Growth rate, >= 500 mg/l

Toxicity to bacteria

Based on data from similar materials EC50, 3 Hour, > 100 mg/l, OECD Test Guideline 209

Trifluoropropylmethyl cyclotrisiloxane

Acute toxicity to fish Toxicity to aquatic species occurs at concentrations above material's water solubility.

Persistence and degradability

Ethyltriacetoxysilane

Biodegradability: Biodegradation: 74 % Exposure time: 21 d

Methyltriacetoxysilane

Biodegradability: For similar material(s): Material is readily biodegradable. Passes OECD test(s) for ready biodegradability.
10-day Window: Pass
Biodegradation: 74 %
Exposure time: 21 d
Method: OECD Test Guideline 301A

Trifluoropropylmethyl cyclotrisiloxane

Biodegradability: Material is not readily biodegradable according to OECD/EEC guidelines. 10-day Window: Fail **Biodegradation:** 0 % **Exposure time:** 28 d **Method:** OECD Test Guideline 301B or Equivalent

Bioaccumulative potential

Ethyltriacetoxysilane

Bioaccumulation: No relevant data found.

Methyltriacetoxysilane

Bioaccumulation: For the hydrolysis product(s) Bioconcentration potential is low (BCF < 100 or Log Pow < 3). **Partition coefficient: n-octanol/water(log Pow):** -2.4 at 20 °C estimated **Bioconcentration factor (BCF):** 3 Fish Estimated.

Trifluoropropylmethyl cyclotrisiloxane

Bioaccumulation: Bioconcentration potential is low (BCF less than 100 or log Pow greater than 7).

Partition coefficient: n-octanol/water(log Pow): 9 Estimated by Structure-Activity Relationship (SAR).

Mobility in soil

Ethyltriacetoxysilane

No relevant data found.

Methyltriacetoxysilane

Estimated.

Trifluoropropylmethyl cyclotrisiloxane

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 solely 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 MSDS SECTION: Composition Information. 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 Section10 **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 solely of the waste generator. Do not re-use containers for any purpose.

14. TRANSPORT INFORMATION

DOT

Class

Proper shipping name Corrosive solids, n.o.s. (Ethyltriacetoxysilane, Methyltriacetoxysilane) **UN number** UN 1759 8 Packing group Ш

Classification for SEA transport (IMO-IMDG):

Proper shipping name	CORROSIVE SOLID, N.O.S.(Ethyltriacetoxysilane, Methyltriacetoxysilane)
UN number	UN 1759
Class	8
Packing group	III
Marine pollutant	No
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 (I	ATA/ICAO):

Proper shipping name	Corrosive solid, n.o.s.(Ethyltriacetoxysilane,
	Methyltriacetoxysilane)
UN number	UN 1759
Class	8
Packing group	111

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 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 Skin corrosion or irritation Serious eye damage or eye irritation

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 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.

Pennsylvania Right To Know

The following chemicals are listed because of the additional requirements of Pennsylvania law:

Components	CASRN
Trifluoropropylmethyl siloxane, hydroxy-terminated	68607-77-2
Iron oxide	1332-37-2
Hexamethyldisilazane reaction with Silica	68909-20-6
Ethyltriacetoxysilane	17689-77-9

California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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

3*

NFPA

	Health	Flammability	Instability
	3	1	0
Н	MIS		
	Health	Flammability	Physical Hazard

1

* = Chronic Effects (See Hazards Identification)

Revision

Identification Number: 1888684 / A713 / Issue Date: 12/06/2022 / Version: 6.0 Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this document.

Legend

Legena	
ACGIH	USA. ACGIH Threshold Limit Values (TLV)
Dow IHG	Dow Industrial Hygiene Guideline
OSHA P0	USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
OSHA Z-1	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air
	Contaminants
STEL	Short-term exposure limit
TWA	Time weighted average

0

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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