SAFETY DATA SHEET



1. Identification

Product identifier X-832-050-B

Other means of identification None.

Recommended use Industrial use only Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Shin-Etsu Silicones of America, Inc. Name **Address** 1150 Damar Drive, Akron, OH 44305 USA

Regulation compliance group Contact

Telephone Number +1-330-630-9860 +1-330-630-9855 **Fax Number**

Emergency Phone Number Chemtrec: +1-800-424-9300 (Within US)

Chemtrec: +1-703-527-3887 (Outside US)

2. Hazard(s) identification

Not classified. **Physical hazards Health hazards** Not classified. Not classified. **Environmental hazards OSHA** defined hazards Not classified.

*Hazards not stated here are "Not classified", "Not applicable" or "Classification not possible".

Label elements

Hazard symbol None. None. Signal word

Not available. **Hazard statement**

Precautionary statement

Prevention Not available. Response Not available. Not available. **Storage** Not available. **Disposal**

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None. Health: 0 **HMIS®** ratings

Flammability: 0 Physical hazard: 0

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Cyclopentasiloxane, decamethyl-		541-02-6	0.000986
Octamethylcyclotetrasiloxane		556-67-2	0.000986
(impurity)			

^{*}Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures		
Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.	
Skin contact	Wash skin with soap and water.	
Eye contact	Rinse immediately with plenty of water for at least 15 minutes.	

Ingestion Rinse mouth. Get medical attention immediately.

Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special Treat symptomatically.

treatment needed

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to

Direct contact with eyes may cause temporary irritation.

protect themselves.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media Specific hazards arising from

the chemical

Special protective equipment

and precautions for firefighters Fire fighting

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Not available.

By heating and fire, harmful vapors/gases may be formed.

Nitrogen oxides. (corrosive)

Firefighters must use standard protective equipment including flame retardant coat, helmet,

gloves, rubber boots, and self-contained breathing apparatus.

Move containers from fire area if you can do so without risk.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

equipment/instructions

Methods and materials for

containment and cleaning up

Keep unnecessary personnel away. Wear appropriate personal protective equipment.

Eliminate sources of ignition.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is

possible. Cover with plastic sheet to prevent spreading.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to

remove residual contamination.

Never return spills in original containers for re-use. Collect for salvage or disposal.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Do not breathe mist or vapor. Provide adequate ventilation. When curing provide adequate ventilation. When curing do not breathe vapor.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry place out of direct sunlight. Keep in original container.

8. Exposure controls/personal protection

Occupational exposure limits

US. Workplace Environmental Exposure Level (WEEL) Guides

Components	Туре	Value	
Cyclopentasiloxane, decamethyl- (CAS 541-02-6)	TWA	10 ppm	
Octamethylcyclotetrasiloxan e (impurity) (CAS 556-67-2)	TWA	10 ppm	

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering

controls

Provide eyewash station.

Individual protection measures, such as personal protective equipment

Eye/face protection Tightly sealed safety glasses according to EN 166.

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Other No special protective equipment required.

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Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. If ventilation is insufficient when heating use chemical respirator with organic vapor cartridge. If ventilation is insufficient when

curing use chemical respirator with organic vapor cartridge.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice. This product can generate formaldehyde at

approximately 150 °C (300 °F) and above in the presence of air. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant and potential cancer hazard. So, use adequate ventilation or wear protective equipment such as gloves, goggles, organic vapor respirator or protective clothing when this product is heated at approximately 150 °C (300 °F) and

above in the presence of air.

9. Physical and chemical properties

Appearance

Physical state Liquid. Liquid. **Form** Color Colorless Odorless Odor Odor threshold Not available. Not available. Melting point/freezing point Not available.

Initial boiling point and boiling

range

pН

Flash point > 302 °F (> 150 °C) Open Cup

Not available.

Evaporation rate Not available. Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits Not available. Explosive limit - lower (%)

Explosive limit - upper (%) Not available. Vapor pressure Not available. Not available. Vapor density Not available. Relative density

Solubility(ies)

Not soluble Solubility (water) Partition coefficient Not available.

(n-octanol/water)

Not available. **Auto-ignition temperature Decomposition temperature** Not available. Not available. **Viscosity**

Other information

Density 9.17 lb/gal 1.0 Specific gravity

10. Stability and reactivity

Not available. Reactivity

Chemical stability Stable at normal conditions.

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Conditions to avoid None known.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

Thermal breakdown of this product during fire or very high heat condition may evolve the following

hazardous decomposition product:

Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide. Nitrogen

oxides. Formaldehyde .

11. Toxicological information

Information on likely routes of exposure

No adverse effects due to inhalation are expected. Inhalation Skin contact No adverse effects due to skin contact are expected. Direct contact with eyes may cause temporary irritation. Eye contact

Expected to be a low ingestion hazard. Ingestion

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity

Test Results Components **Species**

Octamethylcyclotetrasiloxane (impurity) (CAS 556-67-2)

Acute Inhalation Vapor

Oral Liquid

LC50 Rat

LD50 Rat

> 5000 mg/kg

Skin corrosion/irritation Not available.

Respiratory or skin sensitization

Not available. Respiratory sensitization Not available. Skin sensitization Germ cell mutagenicity Not available.

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity Not available. Specific target organ toxicity -Not available.

single exposure

Specific target organ toxicity -

repeated exposure

Not available.

Not available. **Aspiration hazard**

Further information This product can generate formaldehyde at approximately 150 °C (300 °F) and above in the

presence of air. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant and potential cancer hazard. So, use adequate ventilation or wear protective equipment such as gloves, goggles, organic vapor respirator or protective clothing when this product is

> 5000 mg/m3, 4 hours

heated at approximately 150 °C (300 °F) and above in the presence of air.

12. Ecological information

otoxicity			
Product		Species	Test Results
X-832-050-B			
Aquatic			
Acute			
Crustacea	EC50	Daphnia	1500000 μg/l, 48 h estimated
Fish	LC50	Fish	23601.6049 μg/l, 96 hr estimated

Test Results Species Components

Components		Species	lest Results	
Octamethylcyclotetras	siloxane (impurity) (CAS 556-67-2)		
Aquatic				
Acute				
Algae	ErC10	Pseudokirchneriella subcapitata	>= 22 μg/l, 96 h	
	ErC50	Pseudokirchneriella subcapitata	> 22 μg/l, 96 h	
Crustacea	EC50	Daphnia magna	> 15 μg/l, 48 h	
	LC50	Americamysis bahia	> 9.1 µg/l, 96 h	
Fish	LC50	Cyprinodon variegatus	> 6.3 µg/l, 14 d	
			6.3 μg/l, 96 h	
		Oncorhynchus mykiss	> 22 μg/l, 96 h	
			10 μg/l, 14 d	
	NOEC	Cyprinodon variegatus	> 63 μg/l, 14 d	
		Oncorhynchus mykiss	4.4 μg/l, 14 d	
Chronic				

Persistence and degradability No data available.

Photolysis

Fish

Crustacea

Half-life (Photolysis-atmospheric)

Octamethylcyclotetrasiloxane (impurity) 15.8 days, indirect photolysis

Daphnia magna

Oncorhynchus mykiss

Hydrolysis

Half-life (Hydrolysis)

Octamethylcyclotetrasiloxane (impurity) 0.9 - 1 h (pH9; 25°C) 1.8 h (pH4; 25°C)

69.3 - 144 h (pH7; 25°C)

OECD 301, Not readily biodegradable.

Biodegradability

Percent degradation (Aerobic biodegradation-ready)

NOEC

NOEC

Octamethylcyclotetrasiloxane (impurity)

Percent degradation (Aerobic biodegradation-soil)

Octamethylcyclotetrasiloxane (impurity) 0.04 days Half-life in soil, at 22 °C in tropical Wahiawa soil in

closed system.

Bioaccumulative potential No data available.

Partition coefficient n-octanol / water (log Kow)

Cyclopentasiloxane, decamethyl-5.2 Octamethylcyclotetrasiloxane (impurity) 5.1

6.49 (25.1 °C)

Biomagnification factor

0.47, lipid-normalized steady-state Octamethylcyclotetrasiloxane (impurity)

Species: Carp (Cyprinus carpio)

Bioconcentration factor (BCF)

Octamethylcyclotetrasiloxane (impurity)

Species: Fathead minnow (Pimephales promelas)

 $>= 15 \mu g/l, 21 d$

toxicity

>= 4.4 µg/l, 93 d fish early life stage

Mobility in soil

Adsorption

Soil/sediment sorption - log Koc

Octamethylcyclotetrasiloxane (impurity) 4.22, average

Desorption

Soil/sediment desorption - log Kd

Octamethylcyclotetrasiloxane (impurity) 4.3, average

Mobility in general

Volatility

Henry's law

Octamethylcyclotetrasiloxane (impurity)

Log Kaw = 2.69, indicating high potential of volatilization

from water.

Other adverse effects

Not available.

13. Disposal considerations

Disposal instructions

Follow applicable Federal, State and Local regulations.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and

This product is not intended to be transported in bulk.

the IBC Code

15. Regulatory information

US federal regulations

All components are on the U.S. EPA TSCA Inventory List.

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

Toxic Substances Control Act (TSCA)

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Octamethylcyclotetrasiloxane (impurity)

1.0 % One-Time Export Notification only.

(CAS 556-67-2)

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

No

chemical

SARA 313 (TRI reporting)

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.

(a))

Cyclopentasiloxane, decamethyl- (CAS 541-02-6)

Octamethylcyclotetrasiloxane (impurity) (CAS 556-67-2)

California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region	Inventory name On inventory	y (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
*A "Vaa" indicates that all sampa	nearty of this product comply with the inventory requirements administered by the governing country/or	١

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

03-14-2024 Issue date

Version # 01

HMIS® ratings Health: 0

Flammability: 0

Physical hazard: 0

Health: 0 NFPA ratings

Flammability: 0

Instability: 0

NFPA ratings



Disclaimer

This information is offered in good faith as typical values and not as a product specification. No warranty, expressed or implied, is hereby made. The recommended industrial hydiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.

This product has been designed, manufactured and developed solely for general industrial use only. This product is not designed for, intended for use as, or suitable for, medical, surgical or other particular purposes. Users have the sole responsibility and obligation to determine the suitability of this product for any application, to make preliminary tests, and to confirm the safety of this product for their use. Users must never use this product for the purpose of implantation into the human body and/or injection into humans.

Revision information Product and Company Identification: Alternate Trade Names

Handling and storage: Precautions for safe handling

Other information, including date of preparation or last revision: References Other information, including date of preparation or last revision: Disclaimer

Material name: X-832-050-B SDS US

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