

**SAFETY DATA SHEET****SILCOGUM BROWN 108872**

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**SAFETY DATA SHEET****SILCOGUM BROWN 108872****Section 1. Identification**

**GHS product identifier** : SILCOGUM BROWN 108872  
**Chemical name** : Mixture  
**CAS number** : Mixture  
**Other means of identification** : FO20052147  
**Product type** : liquid

**Relevant identified uses of the substance or mixture and uses advised against**

**Product use** : Industrial applications. Plastics.

**Supplier's details** : **GSDI Specialty Dispersions, Inc.**  
1675 Navarre Road SW, Massillon,  
Ohio USA 44646

1 (440) 930-1000 or 1 (844) 4AVIENT

**Emergency telephone number (with hours of operation)** : CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).

**Section 2. Hazards identification**

**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classification of the substance or mixture** : TOXIC TO REPRODUCTION - Category 2

**GHS label elements**

**Hazard pictograms** :



**Signal word** : Warning  
**Hazard statements** : Suspected of damaging fertility or the unborn child.

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**Precautionary statements**

- Prevention** : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection.
- Response** : IF exposed or concerned: Get medical advice or attention.
- Storage** : Store locked up.
- Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.
- Hazards not otherwise classified** : None known.
- Hazards identified when used** : No known significant effects or critical hazards.

**Section 3. Composition/information on ingredients**

- Substance/mixture** : Mixture
- Chemical name** : SILCOGUM BROWN 108872
- Other means of identification** : SILCOGUM BROWN 108872

Ingredient name	Synonyms	%	Identifiers
Iron oxide	triiron tetraoxide	>= 10 - <= 24	CAS: 1317-61-9
Iron oxide	diiron trioxide	>= 5 - <= 10	CAS: 1309-37-1
Titanium oxide	Titanium dioxide	>= 1 - <= 5	CAS: 13463-67-7
Cyclotetrasiloxane, 2,2,4,4,6,6,8,8-octamethyl-	octamethylcyclotetrasiloxane	> 0 - < 1	CAS: 556-67-2

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.**

**Occupational exposure limits, if available, are listed in Section 8.**

**Section 4. First aid measures****Description of necessary first aid measures**

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention

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- if irritation occurs.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Most important symptoms/effects, acute and delayed****Potential acute health effects**

- Eye contact** : No known significant effects or critical hazards.  
**Inhalation** : No known significant effects or critical hazards.  
**Skin contact** : No known significant effects or critical hazards.  
**Ingestion** : No known significant effects or critical hazards.

**Over-exposure signs/symptoms**

- Eye contact** : No specific data.  
**Inhalation** : Adverse symptoms may include the following: reduced fetal weight, increase in fetal deaths, skeletal malformations  
**Skin contact** : Adverse symptoms may include the following: reduced fetal weight, increase in fetal deaths, skeletal malformations  
**Ingestion** : Adverse symptoms may include the following: reduced fetal weight, increase in fetal deaths, skeletal malformations

**Indication of immediate medical attention and special treatment needed, if necessary**

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist

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- Specific treatments** : immediately if large quantities have been ingested or inhaled.  
: No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

- Suitable extinguishing media** : In case of fire, use water spray (fog), foam, dry chemical or CO<sub>2</sub>.  
**Unsuitable extinguishing media** : None known.
- Specific hazards arising from the chemical** : In a fire or if heated, a pressure increase will occur and the container may burst.  
**Hazardous thermal decomposition products** : Decomposition products may include the following materials: carbon dioxide, carbon monoxide, sulfur oxides, metal oxide/oxides
- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the

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product has caused environmental pollution (sewers, waterways, soil or air).

**Methods and materials for containment and cleaning up**

- |                    |   |   |
|--------------------|---|---|
| <b>Small spill</b> | : | Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.  |
| <b>Large spill</b> | : | Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. |

<b>Section 7. Handling and storage</b>
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**Precautions for safe handling**

- |   |   |  |
|---|---|--|
| <b>Protective measures</b>  | : | Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. |
| <b>Advice on general occupational hygiene</b>                       | : | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.  |
| <b>Conditions for safe storage, including any incompatibilities</b> | : | Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store in a well-ventilated place. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store  |

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in unlabeled containers. Use appropriate containment to avoid environmental contamination.

<b>Section 8. Exposure controls/personal protection</b>
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Control parametersOccupational exposure limits

Ingredient name	Exposure limits
Iron oxide	<b>OSHA PEL (1993-06-30). [Iron oxide fume]</b> TWA 8 hours: 10 mg/m <sup>3</sup> Form: Fume
Iron oxide	<b>CAL OSHA PEL (2018-05-16). [iron oxide fume]</b> TWA 8 hours: 5 mg/m <sup>3</sup> <b>CAL OSHA PEL (2018-05-16). [rouge]</b> TWA 8 hours: 10 mg/m <sup>3</sup> Form: Total dust TWA 8 hours: 5 mg/m <sup>3</sup> Form: Respirable fraction <b>ACGIH TLV (2005-12-09). [Iron oxide] A4.</b> TWA 8 hours: 5 mg/m <sup>3</sup> Form: Respirable fraction <b>NIOSH REL (2010-09-01). [iron oxide dust and fume]</b> TWA 10 hours: 5 mg/m <sup>3</sup> (as Fe) Form: Dust and fumes <b>OSHA PEL 1989 (1989-03-01). [Iron oxide dust and fume (as Fe)]</b> STEL 15 minutes: 10 ppm (as Fe) Form: total particulates <b>OSHA PEL 1989 (1989-03-01). [Rouge]</b> TWA 8 hours: 5 mg/m <sup>3</sup> Form: Respirable fraction TWA 8 hours: 10 mg/m <sup>3</sup> Form: Total dust <b>OSHA PEL (1993-06-30). [Rouge]</b> TWA 8 hours: 15 mg/m <sup>3</sup> Form: Total dust TWA 8 hours: 5 mg/m <sup>3</sup> Form: Respirable fraction <b>OSHA PEL (1993-06-30). [Iron oxide fume]</b> TWA 8 hours: 10 mg/m <sup>3</sup> Form: Fume
Titanium oxide	<b>CAL OSHA PEL (2018-05-16). [titanium dioxide as Ti]</b> TWA 8 hours: 10 mg/m <sup>3</sup> (as Ti) Form: Total dust TWA 8 hours: 5 mg/m <sup>3</sup> (as Ti) Form: Respirable fraction <b>ACGIH TLV (2022-01-06). [titanium dioxide finescale particles] A3.</b> TWA 8 hours: 2.5 mg/m <sup>3</sup> Form: respirable fraction, finescale particles <b>ACGIH TLV (2022-01-06). [titanium dioxide nanoscale particles] A3.</b> TWA 8 hours: 0.2 mg/m <sup>3</sup> Form: respirable fraction, nanoscale

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	<p>particles <b>OSHA PEL 1989 (1989-03-01). [Titanium dioxide]</b> TWA 8 hours: 10 mg/m<sup>3</sup> Form: Total dust <b>OSHA PEL (1993-06-30). [Titanium dioxide]</b> TWA 8 hours: 15 mg/m<sup>3</sup> Form: Total dust</p>
Cyclotetrasiloxane, 2,2,4,4,6,6,8,8-octamethyl-	<p><b>OARS WEEL (2018-05-07). [octamethylcyclotetrasiloxane]</b> TWA 8 hours: 10 ppm</p>

**Biological exposure indices**

No exposure indices known.

- Appropriate engineering controls** : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

**Individual protection measures**

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

**Skin protection**

- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves

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<b>Body protection</b>	:	cannot be accurately estimated. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
<b>Other skin protection</b>	:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
<b>Respiratory protection</b>	:	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties

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

Appearance

<b>Physical state</b>	:	liquid [Viscous liquid.]
<b>Color</b>	:	BROWN
<b>Odor</b>	:	Not available.
<b>Odor threshold</b>	:	Not available.
<b>pH</b>	:	Not available.
<b>Melting point/freezing point</b>	:	Not available.
<b>Boiling point or initial boiling point and boiling range</b>	:	Not available.
<b>Flash point</b>	:	Not available.
<b>Evaporation rate</b>	:	Not available.
<b>Flammability</b>	:	Not available.
<b>Lower and upper explosion limit/flammability limit</b>	:	<b>Lower:</b> Not available. <b>Upper:</b> Not available.
<b>Vapor pressure</b>	:	Not available.
<b>Relative vapor density</b>	:	Not available.
<b>Relative density</b>	:	Not available.
<b>Solubility in water</b>	:	Not available.
<b>Partition coefficient: n-octanol/water</b>	:	Not applicable.
<b>Auto-ignition temperature</b>	:	Not available.

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**Decomposition temperature** : Not available.  
**Viscosity** : **Dynamic** : Not available.  
**Kinematic** : Not available.

**Particle characteristics**

**Median particle size** : Not applicable.

<b>Section 10. Stability and reactivity</b>
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**Reactivity** : No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** : Stable under recommended storage and handling conditions (see Section 7).

**Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid** : Keep away from extreme heat and oxidizing agents.

**Incompatible materials** : Keep away from strong acids. Oxidizer.

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

<b>Section 11. Toxicological information</b>
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**Information on toxicological effects****Acute toxicity**

Product/ingredient name	Result
Iron oxide	<b>Rat - Oral - LD50</b> 5,000 mg/kg
Titanium oxide	<b>Rabbit - Dermal - LD50</b> > 5,000 mg/kg

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	<b>Rat - Male - Inhalation - LC50 Dusts and mists</b> 6.82 Mg/l [4 h]
Cyclotetrasiloxane, 2,2,4,4,6,6,8,8-octamethyl-	<b>Rat - Oral - LD50</b> 1,540 mg/kg <b>Rat - Dermal - LD50</b> 1,770 mg/kg  <b>Rat - Inhalation - LC50 Vapor</b> 36 Mg/l [4 h]

**Conclusion/Summary** : Mixture.Not fully tested.

**Skin corrosion/irritation**

Product/ingredient name	Result
Cyclotetrasiloxane, 2,2,4,4,6,6,8,8-octamethyl-	<b>Rabbit - Skin - Mild irritant</b> <u>Duration of treatment/exposure:</u> 24 hrs

**Conclusion/Summary** : Mixture.Not fully tested.

**Serious eye damage/eye irritation**

Product/ingredient name	Result
Cyclotetrasiloxane, 2,2,4,4,6,6,8,8-octamethyl-	<b>Rabbit - Eyes - Mild irritant</b> <u>Duration of treatment/exposure:</u> 24 hrs

**Conclusion/Summary** : Mixture.Not fully tested.

**Respiratory corrosion/irritation**

**Conclusion/Summary** : Mixture.Not fully tested.

**Respiratory or skin sensitization****Skin**

**Conclusion/Summary** : Mixture.Not fully tested.

**Respiratory**

**Conclusion/Summary** : Mixture.Not fully tested.

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**Germ cell mutagenicity**

**Conclusion/Summary** : Mixture.Not fully tested.

**Carcinogenicity**

**Conclusion/Summary** : Mixture.Not fully tested.

**Classification**

Product/ingredient name	OSHA	IARC	NTP
Iron oxide	-	3	-
Titanium oxide	-	2B	-

**Reproductive toxicity**

**Conclusion/Summary** : Mixture.Not fully tested.

**Specific target organ toxicity (single exposure)**

Not available.

**Specific target organ toxicity (repeated exposure)**

Not available.

**Aspiration hazard**

Not available.

**Information on the likely routes of exposure**

Not available.

**Potential acute health effects**

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

**Symptoms related to the physical, chemical and toxicological characteristics**

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- Eye contact** : No specific data.
- Inhalation** : Adverse symptoms may include the following: reduced fetal weight, increase in fetal deaths, skeletal malformations
- Skin contact** : Adverse symptoms may include the following: reduced fetal weight, increase in fetal deaths, skeletal malformations
- Ingestion** : Adverse symptoms may include the following: reduced fetal weight, increase in fetal deaths, skeletal malformations

**Delayed and immediate effects and also chronic effects from short and long term exposure****Short term exposure**

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

**Long term exposure**

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

**Potential chronic health effects**

Not available.

- Conclusion/Summary** : Mixture. Not fully tested.

- General** : No known significant effects or critical hazards.
- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Reproductive toxicity** : Suspected of damaging fertility or the unborn child.

**Numerical measures of toxicity****Acute toxicity estimates**

Product/ingredient name	Oral	Dermal	Inhalation (gases)	Inhalation (vapors)	Inhalation (dusts and mists)
SILCOGUM BROWN 108872	5209.1 mg/kg	N/A	N/A	N/A	N/A
Iron oxide	5000 mg/kg	N/A	N/A	N/A	N/A
Titanium oxide	N/A	N/A	N/A	N/A	6.82 Mg/l
Cyclotetrasiloxane, 2,2,4,4,6,6,8,8-octamethyl-	1540 mg/kg	1770 mg/kg	N/A	36 Mg/l	N/A

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<b>Section 12. Ecological information</b>
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**Toxicity**

Product/ingredient name	Result
Titanium oxide	<b>Acute LC50 Marine water</b> Fish - <i>Fundulus heteroclitus</i> > 1,000 Mg/l [96 h] <b>Acute LC50 Fresh water</b> Crustaceans - <i>Ceriodaphnia dubia</i> 3 Mg/l [48 h] <b>Acute LC50 Fresh water</b> Daphnia - <i>Daphnia pulex</i> 6.5 Mg/l [48 h]
Cyclotetrasiloxane, 2,2,4,4,6,6,8,8-octamethyl-	<b>Acute LC50 Fresh water</b> Fish - <i>Leuciscus idus ssp. melanotus</i> 0.204 - 3.483 Mg/l [96 h] <b>Chronic NOEC Fresh water</b> Fish - <i>Oncorhynchus mykiss</i> 0.0000044 mg/l [93 d] <b>Chronic NOEC Fresh water</b> Daphnia - <i>Daphnia magna</i> 0.0079 Mg/l [21 d]

**Conclusion/Summary** : Not available.

**Persistence and degradability**

Not available.

**Conclusion/Summary** : Not available.

**Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Cyclotetrasiloxane, 2,2,4,4,6,6,8,8-octamethyl-	6.488	13,400.00 [EPA OTS 797.1520]	High

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**Mobility in soil**

Soil/Water partition coefficient : Not available.

**Other adverse effects**

No known significant effects or critical hazards.

**Section 13. Disposal considerations**

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**Section 14. Transport information**

U.S.DOT 49CFR : Not regulated for transportation.  
Ground/Air/Water

IATA : Consult mode specific transport rules

IMDG : Consult mode specific transport rules

**Section 15. Regulatory information**

**U.S. Federal regulations**

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**TSCA 8(a) CDR Exempt/Partial exemption:** Not determined

**TSCA 8(a) - Preliminary assessment report (PAIR):** Decamethylcyclotrasiloxane;  
Dodecamethylcyclohexasiloxane; Octamethylcyclotetrasiloxane;

**TSCA 12(b) - Chemical export notification**

**Clean Air Act Section 112(b)** : Not listed  
**Hazardous Air Pollutants (HAPs)**  
**Clean Air Act Section 602 Class I Substances** : Not listed  
**Clean Air Act Section 602 Class II Substances** : Not listed  
**DEA List I Chemicals (Precursor Chemicals)** : Not listed  
**DEA List II Chemicals (Essential Chemicals)** : Not listed

**SARA 302/304****Composition/information on ingredients**

No products were found.

**SARA 304 RQ** : Not applicable.

**SARA 311/312**

**Classification** : TOXIC TO REPRODUCTION - Category 2

**Composition/information on ingredients**

<b>Name</b>	<b>%</b>	<b>Classification</b>
Cyclotetrasiloxane, 2,2,4,4,6,6,8,8-octamethyl-	> 0 - < 1	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY - oral - Category 4 ACUTE TOXICITY - dermal - Category 4 EYE IRRITATION - Category 2B TOXIC TO REPRODUCTION - Category 2

**State regulations**

**Massachusetts** : The following components are listed:  
Iron oxide

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Titanium oxide

- New York** : None of the components are listed.
- New Jersey** : The following components are listed:  
 IRON OXIDE  
 TITANIUM DIOXIDE
- Pennsylvania** : The following components are listed:  
 IRON OXIDE  
 TITANIUM OXIDE

**California Prop. 65**

 **WARNING:** This product can expose you to, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Ingredient name	No significant risk level	Maximum acceptable dosage level
Titanium dioxide	-	-

**International regulations**

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

**Chemical Weapons Convention List Schedule I Chemicals**

None of the components are listed.

**Chemical Weapons Convention List Schedule II Chemicals**

None of the components are listed.

**Chemical Weapons Convention List Schedule III Chemicals**

None of the components are listed.

**Montreal Protocol**

None of the components are listed.

**Stockholm Convention on Persistent Organic Pollutants**

**Annex A - Elimination - Production**

None of the components are listed.

**Annex A - Elimination - Use**

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None of the components are listed.

**Annex B - Restriction - Production**

None of the components are listed.

**Annex B - Restriction - Use**

None of the components are listed.

**Annex C - Unintentional - Production**

None of the components are listed.

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

**Rotterdam Convention on Prior Informed Consent (PIC) - Industrial**

None of the components are listed.

**Rotterdam Convention on Prior Informed Consent (PIC) - Pesticide**

None of the components are listed.

**Rotterdam Convention on Prior Informed Consent (PIC) -Severely hazardous pesticide**

None of the components are listed.

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

**Heavy metals - Annex 1**

None of the components are listed.

**POPs - Annex 1 - Production**

None of the components are listed.

**POPs - Annex 1 - Use**

None of the components are listed.

**POPs - Annex 2**

None of the components are listed.

**POPs - Annex 3**

None of the components are listed.

**Inventory list**

<b>Australia</b>	:	All components are listed or exempted.
<b>Canada</b>	:	All components are listed or exempted.
<b>China</b>	:	All components are listed or exempted.
<b>Eurasian Economic Union</b>	:	<b>Russian Federation inventory:</b> Not determined.

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- Japan** : **Japan inventory (CSCL):** Not determined.  
: **Japan inventory (ISHL):** Not determined.
- New Zealand** : All components are listed or exempted.
- Philippines** : All components are listed or exempted.
- Republic of Korea** : All components are listed or exempted.
- Taiwan** : All components are listed or exempted.
- Thailand** : Not determined.
- Turkey** : Not determined.
- United States** : All components are active or exempted.
- Viet Nam** : Not determined.

**Section 16. Other information**

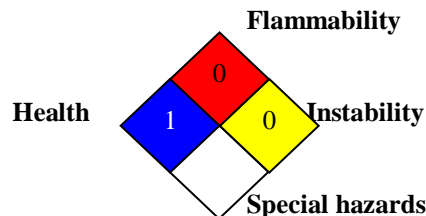
Hazardous Material Information System (U.S.A.)

<b>Health</b>	*	0
<b>Flammability</b>		0
<b>Physical hazards</b>		0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)



Procedure used to derive the classification

Classification	Justification
TOXIC TO REPRODUCTION - Category 2	Calculation method

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**History**

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**Prepared by** : EHS\_BATCH  
**Key to abbreviations** : ATE = Acute Toxicity Estimate  
 BCF = Bioconcentration Factor  
 DOT = Department of Transportation  
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
 IATA = International Air Transport Association  
 IBC = Intermediate Bulk Container  
 IMDG = International Maritime Dangerous Goods  
 IMO = International Maritime Organization  
 LogPow = logarithm of the octanol/water partition coefficient  
 MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
 N/A = Not available  
 SGG = Segregation Group  
 TDG = Transportation of Dangerous Goods  
 UN = United Nations  
**References** : Not available.

**Notice to reader**

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