

SAFETY DATA SHEET

CYCLOMETHICONE

1. PRODUCT INFORMATION AND COMPANY IDENTIFICATION

Product Name: Cyclomethicone

Company: Natural Bulk Supplies, 318 Half Day Rd, # 348,
Buffalo Grove, IL 60089 Phone: 847-489-7180

Emergency Contact: Infotrac: 800-535-5053(North America) +1-352-323-3500 (International)

2. HAZARD IDENTIFICATION

Classification

Flammable Liquids

Category 4

WARNING!

GHS LABEL

Hazard Statements

H227

Combustible liquid

Precautionary Statements

P210

Keep away from heat, hot surfaces, sparks, open flames, and other ignition, sources. No smoking.

P280

Wear protective gloves/protective clothing/eye protection/face protection. P370+378 In case of fire: Use..... to extinguish.

P403

Store in a well ventilated place.

P501

Dispose of contents/container to...

3. COMPOSITION/INFORMATION ON INGREDIENTS

The precise composition of this product is proprietary information. In the event of a medical emergency, a complete disclosure will be provided to medical personnel.

| Chemical name | CAS # | Component% | OSHA PEL | ACGIH TLV |
|------------------------------|----------|------------|-----------------|-----------------|
| Octamethylcyclotetrasiloxane | 556-67-2 | 0.1-1 | TWA 10 ppm | 10 ppm |
| Cyclopentasiloxane | 541-02-6 | 99-100 | Not established | Not established |

4. FIRST AID MEASURES

Contact with eyes

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 if irritation occurs.

Skin contact

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

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 adverse health effects persist or are severe. 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.

Ingestion

Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. 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 if adverse health effects persist or are severe. 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.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media

Use dry chemical, CO₂, water spray (fog) or foam. Unsuitable extinguishing media: Do not use water jet.

Special Fire Fighting Procedures

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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. Firefighters must wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus with full face mask and full protective clothing.

Unusual Fire Fighting Hazards

Combustible liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard. Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

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. Shut off all ignition sources. No flares, smoking or flames in hazard area. 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 specialised 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 product has caused environmental pollution (sewers, waterways, soil or air).

Methods for Cleaning Up

Small spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof

equipment. Note: see section 1 of SDS for emergency contact information and section 13 of SDS for waste disposal. Large spill: 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. 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 (see section 13 of SDS). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 of SDS for emergency contact information and section 13 of SDS for waste disposal.

7. HANDLING AND STORAGE

Handling and Storage

Put on appropriate personal protective equipment (see section 8 of SDS). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous.

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10 of SDS) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. 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 in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS

| Component Name | CAS # | OSHA PEL | ACGIH TLV |
|------------------------------|----------|-----------------|-----------------|
| Octamethylcyclotetrasiloxane | 556-67-2 | TWA 10 ppm | 10 ppm |
| Cyclopentasiloxane | 541-02-6 | Not established | Not established |

Engineering Controls

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Monitoring

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.

Personal Protective Equipment (PPE)

Eye 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.

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 cannot be accurately estimated.

Body protection: 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. Other skin protection: 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.

Respiratory Protection

If exposure limits are exceeded or respiratory irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Supplied air respirators may be required for non-routine or emergency situations. Respiratory protection must be provided in accordance with OSHA regulations (see 29CFR 1910.134). Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|----------------------------------|----------------------------------|
| Appearance | Colorless liquid |
| Odor | Faint odor |
| pH@25°C | No data available |
| Melting/Freezing Point | -40°C |
| Flashpoint | 76.6 °C (169.88 °F) (Closed cup) |
| Specific Gravity | 0.95 g/cm ³ |
| Solubility | Insoluble |
| Auto-Ignition Temperature | 392 °C (737.60 °F) |
| Decomposition Temperature | No data available |
| VOC Content | No data available |
| Odor Threshold | No data available |
| Boiling Range | 210.00 °C (410.00 °F) |
| Evaporation Point | 1 |
| Flammable Limits - Upper | No data available |
| Flammable Limits - Lower | No data available |
| Vapor Pressure | 0.16 hPa @ 20 °C (68.00 °F) |
| Vapor Density (Air=1) | No data available |
| Viscosity | 4 mPa·s @ 20 °C (68.00 °F) |

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10. STABILITY AND REACTIVITY

Stability

The product is stable

Conditions to Avoid

Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

Hazardous Decomposition/Byproducts

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

Hazardous Polymerization

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

Polymerization Conditions to Avoid

None.

Incompatibilities

Reactive or incompatible with the following materials: oxidizing materials.

11. TOXICOLOGICAL INFORMATION

Likely Route of Exposure

No information available

Inhalation

No known significant effects or critical hazards

Eye Contact

No known significant effects or critical hazards

Skin Contact

No known significant effects or critical hazards

Ingestion

No known significant effects or critical hazards

Acute Toxicity Value

No data available

Chronic (Long Term) Effects

No known significant effects or critical hazards

Toxicity

| Component Name | LD50 | LC50 |
|------------------------------|--|---------------------------------|
| Octamethylcyclotetrasiloxane | Oral (rat): 1540 mg/kg; Dermal (rat): > 794 mg/kg | Inhalation (rat): 36 mg/l (4hr) |
| Cyclopentasiloxane | Oral (rat): >5000 mg/kg; Dermal (rabbit): > 2000 mg/kg | No data available |

Reproductive Effects

Not Applicable

Teratogenicity

Not Applicable

Mutagenicity

Not Applicable

Embryotoxicity

Not Applicable

Sensitization to Product

Not Applicable

Synergistic Products

Not Applicable

Carcinogenicity

12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available

Mobility

No data available

Degradability

octamethylcyclotetrasiloxane: Not readily biodegradable.

BioAccumulation

LogPow: 8.02. Potential: high

13. DISPOSAL CONSIDERATIONS

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. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. See Section 8 for information on appropriate personal protective equipment.

14. TRANSPORT INFORMATION

DOT SHIPPING INFORMATION

Proper Shipping Name

Cyclomethicone

Contains

Not regulated

Hazard Class and Label

Identification Number

Packaging Group

Other Shipping Info

This product is Combustible as defined by the US Department of Transportation (DOT). It is regulated for transport in the US in container > 119 gallons. The product is not regulated for transport by the IATA, ADR/RID, ADNR or the IMDG regulations.

15. REGULATORY INFORMATION

TSCA STATUS

All components are listed or exempted.

SARA TITLE III SECTION 302/304 EXTREMELY HAZARDOUS SUBSTANCE

No chemicals in this material are subject to the reporting requirements.

SARA TITLE III SECTION 311/312 HAZARD CATEGORIZATION

| Acute | Chronic | Fire | Pressure | Reactive |
|-------|---------|------|----------|----------|
| N/A | N/A | X | N/A | N/A |

SARA TITLE III SECTION 313 SUPPLIER INFORMATION

No chemicals in this material are subject to the reporting requirements.

CERCLA SECTION 102(a) HAZARDOUS SUBSTANCE

No chemicals in this material are subject to the reporting requirements.

CALIFORNIA PROPOSITION 65

CAS#556-67-2: This product does not contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

CAS#541-02-6: This product does not contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

16. OTHER INFORMATION

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