

Section 1-Chemical Product and Company Identification

Company Information:

PremierRepak Inc.
8351 W. 185th Street
Tinley Park, IL 60487

Phone: (708) 444-2688

Fax: (708) 429-4280

InfoTrac 24-hour Emergency Phone Number: 1 (800) 535-5053

InfoTrac Contract Number: 105384

Product Information:

Substance/Mixture: Substance

Substance name: Octamethyltrisiloxane, C.A.S. Number: 107-51-7

Chemical nature: Silicone

Recommended use: Intermediate, Cosmetics, Solvent, Cleaning/washing agents and additives

Section 2-Hazard Identification

Emergency Overview:

Appearance: liquid

Odor: none

Color: colorless

Hazard Summary: Vapors may form explosive mixture with air.
Static-accumulating flammable liquid.

OSHA Regulatory status : This material is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

Potential Health Effects:

Inhalation: No significant effects expected from a single short-term exposure.

Skin: No significant irritation expected from a single short-term exposure.

Eyes: No significant irritation expected from a single exposure.

Ingestion: No significant effects expected from a single short-term exposure.

Aggravated Medical Condition: None known.

Carcinogenicity:

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

ACGIH: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Section 3-Composition and Information on Ingredients

Hazardous Ingredients:

<u>Common Name</u>	<u>C.A.S. No.</u>	<u>Wt. %</u>
Octamethyltrisiloxane	107-51-7	>= 90 - <= 100

Section 4 – First Aid Measures

If inhaled: Remove to fresh air. Get medical attention if symptoms occur.

In case of skin contact: Wash with water and soap as a precaution. Get medical attention if symptoms occur. Wash clothing before reuse.

In case of eye contact: Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.

If swallowed: If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.

Protection of first-aiders: No special precautions are necessary for first aid responders.

Notes to physician: Treat symptomatically and supportively.

Section 5- Firefighting Measures

Suitable extinguishing media: Water spray, Alcohol-resistant foam, Dry chemical, Carbon dioxide (CO₂)

Unsuitable extinguishing media: High volume water jet

Specific hazards during firefighting: Do not use a solid water stream as it may scatter and spread fire. Flash back possible over considerable distance. Vapors may form explosive mixtures with air. Exposure to combustion products may be a hazard to health.

Hazardous combustion products: Carbon oxides, Silicon oxides, Formaldehyde.

Specific extinguishing methods: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.

Special protective equipment for fire fighters: Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.

Section 6 – Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Remove all sources of ignition.
Ventilate the area.
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.
Prevent spreading over a wide area (e.g. by containment or oil barriers).

Methods and materials for containment and cleaning up:

Non-sparking tools should be used. Soak up with inert absorbent material. Suppress (knock down) gases/vapors/mists with a water spray jet. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. 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. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

Section 7- Handling and Storage

Technical measures:

Ensure all equipment is electrically grounded before beginning transfer operations. This material can accumulate static charge due to its inherent physical properties and can therefore cause an electrical ignition source to vapors. In order to prevent a fire hazard, as bonding and grounding may be insufficient to remove static electricity; it is necessary to provide an inert gas purge before beginning transfer operations. Restrict flow velocity in order to reduce the accumulation of static electricity.

Local/Total ventilation:

Use with local exhaust ventilation. Use only in an area equipped with explosion proof exhaust ventilation.

Advice on safe handling:

Avoid inhalation of vapor or mist. Handle in accordance with good industrial hygiene and safety practice. Non-sparking tools should be used. Keep container tightly closed. Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Take care to prevent spills, waste and minimize release to the environment.

Conditions for safe storage:

Keep in properly labeled containers. Keep tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations. Keep away from heat and sources of ignition.

Materials to avoid:

Do not store with the following product types:

- Strong oxidizing agents
- Organic peroxides
- Flammable solids
- Pyrophoric liquids
- Pyrophoric solids
- Self-heating substances and mixtures
- Substances and mixtures which in contact with water emit flammable gases
- Explosives
- Gases

Section 8- Exposure Controls and Personal Protection

Hazardous Component with workplace control parameters:

<u>Common Name</u>	<u>C.A.S. No.</u>	<u>Value type (Form of exposure)</u>	<u>Control parameters Permissible Conc.</u>	<u>Basis</u>
Octamethyltrisiloxane	107-51-7	TWA	200 PPM	SR

Hazardous Component without workplace control parameters:

<u>Common Name</u>	<u>C.A.S. No.</u>
NONE	

Occupational exposure limits of decomposition products:

<u>Common Name</u>	<u>C.A.S. No.</u>	<u>Value type (Form of exposure)</u>	<u>Control parameters Permissible Conc.</u>	<u>Basis</u>
NONE				

Engineering measures:

- Processing may form hazardous compounds (see section 10).
- Minimize workplace exposure concentrations.
- Use only in an area equipped with explosion proof exhaust ventilation.
- Use with local exhaust ventilation.

Personal protective equipment:

Respiratory protection: General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Hand protection:

Material: Antistatic gloves

Material: Flame-retardant gloves

Remarks: Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. Wash hands before breaks and at the end of workday.

Eye protection: Wear the following personal protective equipment: Safety goggles.

Skin and body protection:

Wear the following personal protective equipment:
Flame retardant antistatic protective clothing.
Select appropriate protective clothing based on chemical resistance data and assessment of the local exposure potential.
Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).

Hygiene measures:

Ensure that eye flushing systems and safety showers are located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use. These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions. For further information regarding the use of silicones / organic oils in consumer aerosol applications, please refer to the guidance document regarding the use of these type of materials in consumer aerosol applications that has been developed by the silicone industry (www.SEHSC.com) or contact the Premier Repak customer service group.

Section 9- Physical/Chemical Characteristics

Odor: none

Odor Threshold: No data available

Specific Gravity @ 25°C: 1.007

Freezing/Melting Point: No data available.

Boiling Point: 152 degrees Celsius

Vapor Pressure: 42 hPa

Vapor Density: No data available.

Solubility in Water: No data available.

pH: No data available.

Volatile Content: Not determined.

Flash Point: 30 degrees Celsius **Method:** Pensky-Martens closed cup

Auto ignition Temperature: No data available

Flammability (solid, gas): Not applicable

Evaporation rate: No data available

Upper explosion limit: No data available

Lower explosion limit: No data available

Partition coefficient: noctanol/water: No data available

Decomposition temperature: No data available

Appearance: liquid

Color: Colorless

Viscosity,kinematic: 1 cSt

Explosive properties: Not explosive

Oxidizing properties: The substance or mixture is not classified as oxidizing.

Molecular weight: No data available

Relative Density: 0.816

Section 10- Stability and Reactivity

Reactivity: Not classified as a reactivity hazard.

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions:

Flammable liquid and vapor. Vapors may form explosive mixture with air. Can react with strong oxidizing agents. When heated to temperatures above 150 °C (300 °F) in the presence of air, trace quantities of formaldehyde may be released. Adequate ventilation is required. See OSHA formaldehyde standard, 29 CFR 1910.1048 Hazardous decomposition products will be formed at elevated temperatures.

Conditions to avoid:

Handling operations that can promote accumulation of static charges. Heat, flames and sparks.

Incompatible materials: Oxidizing agents

Hazardous decomposition products:

Thermal decomposition: Formaldehyde

Section 11– Toxicological Information

Information on likely routes of exposure:

Skin contact
Ingestion
Eye contact
Inhalation

Acute toxicity:

Not classified based on available information.

Product:

Oral:

Acute toxicity: LD50 (Rat): > 2000 mg/kg

Assessment: The substance or mixture has no acute oral toxicity

Remarks: Based on test data.

Inhalation:

Acute toxicity: LC50 (Rat): > 2350 ppm

Exposure time: 4 h

Test atmosphere: vapor

Assessment: The substance or mixture has no acute inhalation toxicity

Remarks: Based on test data

Ingredients:

Octamethyltrisiloxane:

Oral:

Acute toxicity: LD50 (Rat): > 2000 mg/kg

Assessment: The substance or mixture has no acute oral toxicity

Remarks: Based on test data.

Inhalation:

Acute toxicity: LC50 (Rat): > 2350 ppm

Exposure time: 4 h

Test atmosphere: vapor

Assessment: The substance or mixture has no acute inhalation toxicity

Remarks: Based on test data

Dermal:

Acute toxicity: LD50 (Rabbit): > 2,000 mg/kg

Assessment: The substance or mixture has no acute dermal toxicity

Remarks: Based on test data.

Skin corrosion/irritation:

Not classified based on available information.

Product:

Species: Rabbit

Result: No skin irritation

Remarks: Based on test data.

Ingredients:

Octamethyltrisiloxane:

Species: Rabbit

Result: No skin irritation

Remarks: Based on test data.

Serious eye damage/eye irritation:

Causes serious eye irritation.

Ingredients:

Octamethyltrisiloxane:

Result: No eye irritation

Remarks: Based on test data.

Respiratory or skin sensitization:

Skin sensitization: Not classified based on available information.

Respiratory sensitization: Not classified based on available information.

Product:

Assessment: Does not cause skin sensitization.
Test Type: Human repeat insult patch test (HRIPT)
Species: Humans
Remarks: No known sensitizing effect. Based on test data.

Ingredients:

Octamethyltrisiloxane:

Assessment: Does not cause skin sensitization.
Test Type: Human repeat insult patch test (HRIPT)
Species: Humans
Remarks: No known sensitizing effect. Based on test data.

Germ cell mutagenicity:

Not classified based on available information.

Product:

Genotoxicity in vitro:

Test Type: Bacterial reverse mutation assay (AMES)
Result: negative
Remarks: Based on test data

Test Type: Chromosome aberration test in vitro
Result: negative
Remarks: Based on test data

Ingredients:

Octamethyltrisiloxane:

Genotoxicity in vitro:

Test Type: Bacterial reverse mutation assay (AMES)
Result: negative
Remarks: Based on test data

Test Type: Chromosome aberration test in vitro
Result: negative
Remarks: Based on test data

Carcinogenicity:

Not classified based on available information.

Reproductive toxicity:

Not classified based on available information.

Product:

Effects on fertility:

Test Type: Combined repeated dose toxicity study with reproduction/development toxicity screening test

Species: Rat, male and female

Application Route: Inhalation (vapor)

Result: No effects on fertility

Remarks: Based on test data

Test Type: Uterotrophic assay

Species: Rat, female

Application Route: Inhalation (vapor)

Result: No effects on fertility

Remarks: Based on test data

Effects on fetal development:

Test Type: Combined repeated dose toxicity study with reproduction/development toxicity screening test

Species: Rat, male and female

Application Route: Inhalation (vapor)

Result: No effects on fertility

Remarks: Based on test data

Reproductive Assessment: No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

Ingredients:

Octamethyltrisiloxane:

Effects on fertility:

Test Type: Combined repeated dose toxicity study with reproduction/development toxicity screening test

Species: Rat, male and female

Application Route: Inhalation (vapor)

Result: No effects on fertility

Remarks: Based on test data

Test Type: Uterotrophic assay

Species: Rat, female

Application Route: Inhalation (vapor)

Result: No effects on fertility

Remarks: Based on test data

Effects on fetal development:

Test Type: Combined repeated dose toxicity study with reproduction/development toxicity screening test

Species: Rat, male and female

Application Route: Inhalation (vapor)

Result: No effects on fertility

Remarks: Based on test data

Reproductive Assessment: No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

STOT-single exposure:

Not classified based on available information.

STOT-repeated exposure:

Not classified based on available information.

Product:

Routes of exposure: inhalation (vapor)

Assessment: No significant health effects observed in animals at concentrations of 1 mg/l/6h/d or less.

Ingredients:

Octamethyltrisiloxane:

Routes of exposure: Ingestion

Assessment: No significant health effects observed in animals at concentrations of 100 mg/kg bw or less.

Routes of exposure: inhalation (vapor)

Assessment: No significant health effects observed in animals at concentrations of 1 mg/l/6h/d or less.

Repeated dose toxicity:

Product:

Species: Rat

Routes of exposure: Inhalation (vapor)

Remarks: Based on test data

Ingredients:

Octamethyltrisiloxane:

Species: Rat

Routes of exposure: Ingestion

Remarks: Based on test data

Species: Rat

Routes of exposure: Inhalation (vapor)

Remarks: Based on test data

Aspiration toxicity:

Not classified based on available information.

Further information:

Ingredients:

Octamethyltrisiloxane:

Remarks: This material contains Octamethyltrisiloxane (L3) Repeated inhalation

exposure in rats to L3 resulted in protoporphyrin accumulation in the liver. Without knowledge of the specific mechanism leading to the protoporphyrin accumulation the relevance of this finding to humans is unknown.

Section 12 – Ecological Information

Ecotoxicity:

Ingredients:

Octamethyltrisiloxane:

Toxicity to fish:

LC50 (Oncorhynchus mykiss (rainbow trout)): > 0.019 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
Remarks: Based on test data. No toxicity at limit of solubility.

Chronic:

NOEC (Oncorhynchus mykiss (rainbow trout)): > 0.027 mg/l
Method: OECD Test Guideline 210
Remarks: Based on test data
No toxicity at the limit of solubility

Toxicity to algae:

EC50: (Pseudokirchneriella subcapitata (green algae)): > 0.0094mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: No toxicity at the limit of solubility.

Toxicity to daphnia and other aquatic invertebrates:

EC50: (Daphnia magna (Water flea)): > 0.020 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
Remarks: No toxicity at limit of solubility.

Chronic:

NOEC (Daphnia sp.): > 0.15 mg/l
Exposure time: 21 d
Method: OECD Test Guideline 211
Remarks: No toxicity at the limit of solubility.

Ecotoxicity Assessment:

Acute Aquatic toxicity: This product has no known ecotoxicological effect.

Chronic Aquatic toxicity: This product has no known ecotoxicological effect.

Persistence and degradability:

Ingredients:

Octamethyltrisiloxane:

Biodegradability:

Result: Not readily biodegradable.
Biodegradation: 0 %
Method: OECD Test Guideline 310

Stability in water:

Degradation half life: 329 h pH: 7
Method: OECD Test Guideline 111
Remarks: Based on test data

Bioaccumulative potential:

Ingredients:

Octamethyltrisiloxane:

Bioaccumulation:

Species: Pimephales promelas (fathead minnow)
Bioconcentration factor: (BCF): ≥ 500
Method: OECD Test Guideline 305
Remarks: Biomagnification factor < 1

Partition coefficient n- octanol/water: log Pow ≥ 4

Remarks: Based on test data

Mobility in soil: No data available

Other adverse effects: No data available

Section 13 – Disposal Considerations

Disposal methods:

Resource Conservation and Recovery Act (RCRA): When a decision is made to discard this material as supplied, it is classified as a RCRA hazardous waste.

Waste Code: D001: Ignitability

Waste from residues: Dispose of in accordance with local regulations.

Contaminated packaging:

Do not burn, or use a cutting torch on, the empty drum.

Dispose of as unused product.

Empty containers should be taken to an approved waste-handling site for recycling or disposal.

Section 14 – Transport Information

International Regulation:

UNRTDG:

UN number: UN 1993

Proper shipping name: FLAMMABLE LIQUID, N.O.S. (Octamethyltrisiloxane)

Class: 3

Packing group: III

Labels: 3

IATA-DGR:

UN/ID No.: UN 1993
Proper shipping name: Flammable liquid, n.o.s. (Octamethyltrisiloxane)
Class: 3
Packing group: III
Labels: Flammable Liquids
Packing instruction (cargo aircraft): 366
Packing instruction (passenger aircraft): 355

IMDG-Code:

UN number: UN 1993
Proper shipping name: FLAMMABLE LIQUID, N.O.S. (Octamethyltrisiloxane)
Class: 3
Packing group: III
Labels: 3
EmS Code: F-E, S-E
Marine pollutant: no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:

Not applicable for product as supplied.

Domestic regulation:

49 CFR:

UN/ID/NA number: UN 1993
Proper shipping name: FLAMMABLE LIQUID, N.O.S. (Octamethyltrisiloxane)
Class: 3
Packing group: III
Labels: Flammable Liquid
ERG Code: 128
Marine pollutant: no

Section 15- Hazard Classification

OSHA Hazards: Flammable Liquid, Static-accumulating flammable liquid

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity:

<u>Component Name</u>	<u>CAS Number</u>	<u>Component RQ (lbs)</u>	<u>Calculated product RQ(lbs)</u>
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NONE

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity:

<u>Component Name</u>	<u>CAS Number</u>	<u>Component RQ (lbs)</u>	<u>Calculated product RQ(lbs)</u>
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NONE

SARA 311/312 Hazards:

Fire Hazard

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 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.

US State Regulations:

California:

Warning: This product does NOT contain the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer, birth defects or other reproductive harm.

Component Name CAS Number

NONE

State Right-To-Know:

<u>CAS Number</u>	<u>Wt %</u>	<u>Component Name</u>	<u>State</u>
107-51-7	90 - 100 %	Octamethyltrisiloxane	New Jersey, Pennsylvania

The ingredients of this product are reported in the following inventories:

AICS: All ingredients listed or exempt.

DSL: All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or exempt from listing on the Canadian Domestic Substances List (DSL).

TSCA: All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

NZIoC: All ingredients listed or exempt.

REACH: All ingredients (pre-) registered or exempt.

IECSC: All ingredients listed or exempt.

ENCS/ISHL: All components are listed on ENCS/ISHL or exempted from inventory listing.

KECI: All ingredients listed, exempt or notified.

PICCS: All ingredients listed or exempt.

CEPA: All chemical substances in this product comply with the 1999 and NSNR and are on or exempt from listing on the Canadian Domestic Substances List (DSL).

Inventories:

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

Section 16 – Other Information

Further information:

NFPA:

Flammability: 3
Health: 0
Instability: 0
Special hazard: None

HMIS III:

Flammability: 3
Health: 0
Physical Hazard: 0

0 = not significant, 1 =Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Full text of other abbreviations:

SR: Supplier Reference
TWA: Time-weighted average

Sources of key data used to compile the Safety Data Sheet:

Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

Prepared by: PremierRepak, Inc.

<http://premierrepak.com/>

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.