

**Section 1-Chemical Product and Company Identification**

**Company Information:**

**PremierRepak Inc.**  
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Tinley Park, IL 60487  
www.premierrepak.com

**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:** Hexamethyldisiloxane: CAS Number: 107-46-0  
**Chemical nature:** Silicone  
**Recommended use:** Intermediate, Cosmetics, Solvent, Laboratory chemicals

**Section 2-Hazard Identification**

**GHS Classification:** Flammable liquids: Category 2

**GHS Label element:**



**Signal Word:** DANGER

**Hazard Statements:**

H225: Highly flammable liquid and vapor.

**Precautionary Statements:**

**Prevention:**

P210 **Keep away from heat/sparks/open flames/hot surfaces. No smoking.**  
P233 **Keep container tightly closed.**  
P240 **Ground/bond container and receiving equipment.**  
P241 **Use explosion-proof electrical/ ventilating/ lighting/ equipment.**  
P242 **Use only non-sparking tools.**  
P243 **Take precautionary measures against static discharge.**  
P261 **Avoid breathing spray.**  
P271 **Use only outdoors or in a well-ventilated area.**  
P280 **Wear protective gloves/ eye protection/ face protection.**

**Responses:**

P303 + P361 + P353: **IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.**

**Storage:**

P403 + P235: **Store in a well-ventilated place. Keep cool.**

**Disposal:**

P501: **Dispose of contents/container to an approved waste disposal plant.**

**Other hazards:**

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

**Section 3-Composition and Information on Ingredients**

**Hazardous Ingredients:**

<u>Common Name</u>	<u>C.A.S. No.</u>	<u>Wt. %</u>
Hexamethyldisiloxane	107-46-0	>= 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.

**Most important symptoms and effects, both acute and delayed:** None known

**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>
Hexamethyldisiloxane	107-46-0	TWA	200 PPM	Supplier Reference

**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](http://www.SEHSC.com)) or contact the PremierRepak customer service group.

**Section 9- Physical/Chemical Characteristics**

**Odor:** Characteristic

**Appearance:** Liquid

**Odor Threshold:** No data available

**Color:** Colorless

**Freezing/Melting Point:** No data available.

**Initial Boiling Point and Boiling Point Range:** 100 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:** -3.3 degrees Celsius **Method:** Pensky-Martens closed cup

**Auto ignition Temperature:** 352 degrees Celsius

**Flammability (solid, gas):** Not applicable

**Evaporation rate:** No data available

**Upper explosion limit:** 14.65% (V)

**Lower explosion limit:** 1.5% (V)

**Partition coefficient:** noctanol/water: No data available

**Decomposition temperature:** No data available

**Viscosity, kinematic:** 0.65 mm<sup>2</sup>/s  
**Explosive properties:** Not explosive  
**Oxidizing properties:** The substance or mixture is not classified as oxidizing.  
**Molecular weight:** No data available  
**Relative Density:** 0.76

### **Section 10- Stability and Reactivity**

**Reactivity:** Not classified as a reactivity hazard.

**Chemical stability:** Stable under normal conditions.

**Possibility of hazardous reactions:**

Highly 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): > 16 mg/kg  
**Assessment:** The substance or mixture has no acute oral toxicity  
**Remarks:** Based on test data.

**Inhalation:**

**Acute toxicity:** LC50 (Rat): > 15956 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.

**Ingredients:**

**Hexamethyldisiloxane:**

**Oral:**

**Acute toxicity:** LD50 (Rat): > 16 mg/kg

**Assessment:** The substance or mixture has no acute oral toxicity

**Remarks:** Based on test data.

**Inhalation:**

**Acute toxicity:** LC50 (Rat): > 15956 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:**

**Hexamethyldisiloxane:**

**Species:** Rabbit

**Result:** No skin irritation

**Remarks:** Based on test data.

**Serious eye damage/eye irritation:**

Not classified based on available information.

**Product:**

**Species:** Rabbit

**Result:** No eye irritation

**Remarks:** Based on test data.

**Ingredients:**

**Hexamethyldisiloxane:**

**Species:** Rabbit  
**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:** Based on test data.

**Ingredients:**

**Hexamethyldisiloxane:**

**Assessment:** Does not cause skin sensitization  
**Test Type:** Human repeat insult patch test (HRIPT)  
**Species:** Humans  
**Remarks:** 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

**Test Type:** Mutagenicity (in vitro mammalian cytogenetic test)  
**Result:** negative  
**Remarks:** Based on test data

**Test Type:** DNA damage and repair, unscheduled DNA synthesis in mammalian cells (in vitro)  
**Result:** negative  
**Remarks:** Based on test data

**Genotoxicity in vivo:**

**Test Type:** Mutagenicity (in vivo mammalian bone-marrow)



cytogenetic test, chromosomal analysis)

**Species:** Rat

**Application Route:** Intraperitoneal injection

**Result:** negative

**Remarks:** Based on test data

**Germ cell mutagenicity Assessment:** Animal testing did not show any mutagenic effects.

**Ingredients:**

**Hexamethyldisiloxane:**

**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

**Test Type:** Mutagenicity (in vitro mammalian cytogenetic test)

**Result:** negative

**Remarks:** Based on test data

**Test Type:** DNA damage and repair, unscheduled DNA  
synthesis in mammalian cells (in vitro)

**Result:** negative

**Remarks:** Based on test data

**Genotoxicity in vivo:**

**Test Type:** Mutagenicity (in vivo mammalian bone-marrow  
cytogenetic test, chromosomal analysis)

**Species:** Rat

**Application Route:** Intraperitoneal injection

**Result:** negative

**Remarks:** Based on test data

**Germ cell mutagenicity Assessment:** Animal testing did not show any mutagenic effects.

**Carcinogenicity:**

Not classified based on available information.

**Product:**

**Application Route:** Inhalation

**Result:** negative

**Species:** Rats

**Remarks:** Based on test data

**Carcinogenicity Assessment:** Animal testing did not show any mutagenic effects.

**Ingredients:**

**Hexamethyldisiloxane:**

**Application Route:** Inhalation

**Result:** negative

**Species:** Rats

**Remarks:** Based on test data

**Carcinogenicity Assessment:** Animal testing did not show any mutagenic effects.

**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.

**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.

**Reproductive toxicity:**

Not classified based on available information.

**Product:**

**Effects on fertility:**

**Test Type:** Two-generation reproduction toxicity study

**Species:** Rat, male and female

**Application Route:** Inhalation (vapor)

**Result:** No effects on fertility

**Remarks:** Based on test data

**Effects on fetal development:**

**Test Type:** Two-generation reproduction toxicity study

**Species:** Rat, male and female

**Application Route:** Inhalation (vapor)

**Result:** No effects on fetal development

**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:**

**Hexamethyldisiloxane:**

**Effects on fertility:**

**Test Type:** Two-generation reproduction toxicity study

**Species:** Rat, male and female

**Application Route:** Inhalation (vapor)

**Result:** No effects on fertility

**Remarks:** Based on test data

**Effects on fetal development:**

**Test Type:** Two-generation reproduction toxicity study

**Species:** Rat, male and female

**Application Route:** Inhalation (vapor)

**Result:** No effects on fetal development

**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:** 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.

**Routes of exposure:** Skin contact

**Assessment:** No significant health effects observed in animals at concentrations of 200 mg/kg bw or less.

**Ingredients:**

**Hexamethyldisiloxane:**

**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.

**Routes of exposure:** Skin contact

**Assessment:** No significant health effects observed in animals at concentrations of 200 mg/kg bw or less.

**Repeated dose toxicity:**

**Product:**

**Species:** Rat

**Routes of exposure:** Ingestion

**Remarks:** Based on test data

**Species:** Rat

**Routes of exposure:** Inhalation (vapor)  
**Remarks:** Based on test data

**Species:** Rat  
**Routes of exposure:** Skin Contact  
**Remarks:** Based on test data

**Ingredients:**

**Hexamethyldisiloxane:**

**Species:** Rat  
**Routes of exposure:** Ingestion  
**Remarks:** Based on test data

**Species:** Rat  
**Routes of exposure:** Inhalation (vapor)  
**Remarks:** Based on test data

**Species:** Rat  
**Routes of exposure:** Skin Contact  
**Remarks:** Based on test data

**Aspiration toxicity:**

Not classified based on available information.

**Further information:**

**Ingredients:**

**Hexamethyldisiloxane:**

**Remarks:** This material contains hexamethyldisiloxane (HMDS). Repeated inhalation exposure in rats to HMDS 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:**

**Hexamethyldisiloxane:**

**Toxicity to fish:**

LC50 (Oncorhynchus mykiss (rainbow trout)): > 0.46 mg/l  
Exposure time: 96 h  
Remarks: Based on test data.

**Toxicity to algae:**

EC50: Selenastrum capricornutum (green algae): > 0.55 mg/l  
Exposure time: 96 h  
Remarks: Based on test data. No toxicity at the limit of solubility.

**Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity):**

NOEC (Daphnia sp.): > 0.08 mg/l  
Exposure time: 21 d  
Remarks: Based on test data.

**M-Factor (Acute aquatic toxicity): 1**

**Ecotoxicity Assessment:**

Chronic Aquatic toxicity: Toxic to aquatic life with long lasting effect.

**Persistence and degradability:**

**Ingredients:**

**Hexamethyldisiloxane:**

**Biodegradability:**

Result: Not readily biodegradable.  
Biodegradation: 20 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301C

**Stability in water:**

Degradation half life: 116 h pH: 7  
Method: OECD Test Guideline 111  
Remarks: Based on test data

**Bioaccumulative potential:**

**Ingredients:**

**Hexamethyldisiloxane:**

**Bioaccumulation:**

Species: Cyprinus carpio (Carp)  
Bioconcentration factor: (BCF): 2,410  
Concentration: 0.04 mg/l  
Remarks: Based on test data

**Partition coefficient n- octanol/water: log Pow 5.06 (20 degrees Celsius)**

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. (Hexamethyldisiloxane)

Class: 3

Packing group: II

Labels: 3

**IATA-DGR:**

UN/ID No.: UN 1993

Proper shipping name: Flammable liquid, n.o.s. (Hexamethyldisiloxane)

Class: 3

Packing group: II

Labels: Flammable Liquids

Packing instruction (cargo aircraft): 364

Packing instruction (passenger aircraft): 353

**IMDG-Code:**

UN number: UN 1993

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

Class: 3

Packing group: II

Labels: 3

EmS Code: F-E, S-E

Marine pollutant: yes

**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. (Hexamethyldisiloxane)

Class: 3

Packing group: II

Labels: Flammable Liquid

ERG Code: 128

Marine pollutant: yes (Hexamethyldisiloxane)

**Section 15- Hazard Classification**

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

**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.

<u>Component Name</u>	<u>CAS Number</u>
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NONE

**State Right-To-Know:**

<u>CAS Number</u>	<u>Wt %</u>	<u>Component Name</u>	<u>State</u>
107-46-0	90 - 100 %	Hexamethyldisiloxane	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.

**TCSI:** All ingredients listed or exempt.

### **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

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

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

#### **Full text of other abbreviations:**

**AICS** = Australian Inventory of Chemical Substances **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 Standardization **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** = Global Harmonization System **GLP** = Good Laboratory Practice **HMIS** = Hazardous Material Identification System **IARC** = The International Agency for Research on Cancer **IATA** = International Air Transportation 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 Organization for Standardization **KECI** = Korea Existing Chemicals Inventory **LC50** = Lethal Concentration of 50% of a test population **LD50** = Lethal Dose of 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 Observed (Adverse) 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, Bio accumulative and Toxic Substances **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, Authorization 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 Substances 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 Bio accumulative

**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.