SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

1.1. Product identifier

Trade name
ORCA 980 Methyl Ethyl Ketone Peroxide

CAS No.: Multiple

Product Code(s)
081S980G, 081S980RG, 081S980FRG

1.2. Recommended use of the chemical and restrictions on use

Relevant applications identified: Curing agent (polymer technology)

1.3. Details of the supplier of the safety data sheet

Distributor
Fiberlay, Inc.,
1648 Northgate Blvd
Sarasota, FL 34234
USA

Telephone
206-782-0660 or 1-800-782-0662

Email address
www.fiberlay.com

1.4. 24 HOUR EMERGENCY TELEPHONE NUMBERS: CHEMTREC – US & CANADA:

CHEMTREC
+1 703-527-3887 (collect calls accepted)

INTERNATIONAL:

Product Regulatory Information: 800-231-2702

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation 29CFR 1910.1200

<table>
<thead>
<tr>
<th>Classification</th>
<th>Category</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammable liquids</td>
<td>Category 4</td>
<td>H227</td>
</tr>
<tr>
<td>Organic peroxides</td>
<td>Type D</td>
<td>H242</td>
</tr>
<tr>
<td>Skin corrosion</td>
<td>Category 1B</td>
<td>H314</td>
</tr>
<tr>
<td>Serious eye damage</td>
<td>Category 1</td>
<td>H318</td>
</tr>
<tr>
<td>Acute aquatic toxicity</td>
<td>Category 3</td>
<td>H402</td>
</tr>
<tr>
<td>Chronic aquatic toxicity</td>
<td>Category 3</td>
<td>H412</td>
</tr>
</tbody>
</table>

2.2. Label elements

Statutory basis: Classification according to Regulation 29CFR 1910.1200

Symbol(s):

\[\text{Flammable liquid symbol} \quad \text{and Corrosive symbol}\]
Signal word: Danger

Hazard statement:
H227 - Combustible liquid
H242 - Heating may cause a fire.
H314 - Causes severe skin burns and eye damage.
H412 - Harmful to aquatic life with long lasting effects.

Precautionary statement:
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P220 - Keep/Store away from clothing/ strong acids, bases, heavy metal salts and other reducing substances/combustible materials.
P234 - Keep only in original container.
P260 – Do not breathe dust or mist.
P264 - Wash skin thoroughly after handling.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection.

Precautionary statement:
P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a POISON CENTER/doctor.
P363 - Wash contaminated clothing before reuse.
P370 + P378 - In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.

Precautionary statement:
P403 + P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.
P411 - Store at temperatures not exceeding 38°C (100°F).
P420 - Store away from other materials.

Precautionary statement:
P501 - Dispose of contents/ container to an approved waste disposal plant.

2.3. Other hazards

None known.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Methyl ethyl ketone peroxide</th>
<th>32% - 35%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS-No. 1338-23-4</td>
<td>Flammable liquids: Category 4</td>
</tr>
<tr>
<td>Organic peroxides: Type D</td>
<td></td>
</tr>
<tr>
<td>Acute toxicity (Oral): Category 4</td>
<td></td>
</tr>
<tr>
<td>Skin corrosion: Category 1B</td>
<td></td>
</tr>
<tr>
<td>Serious eye damage: Category 1</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Phlegmatizer</th>
<th>8-25%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS-No: Proprietary</td>
<td>Acute aquatic toxicity: Category 2</td>
</tr>
<tr>
<td>Chronic aquatic toxicity: Category 2</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Methyl ethyl ketone</th>
<th>0% - 2%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS-No 78-93-3</td>
<td>Flammable liquids: Category 2</td>
</tr>
<tr>
<td>Eye irritation: Category 2A</td>
<td></td>
</tr>
<tr>
<td>Specific target organ toxicity - single exposure (Central nervous system): Category 3</td>
<td></td>
</tr>
</tbody>
</table>

September 10, 2015 v2, 2014 Pamela Massey
<table>
<thead>
<tr>
<th>Hydrogen peroxide</th>
<th>&lt;= 1%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS-No. 7722-84-1</td>
<td></td>
</tr>
<tr>
<td>Oxidizing liquids</td>
<td>Category 1</td>
</tr>
<tr>
<td>Acute toxicity (Oral)</td>
<td>Category 4</td>
</tr>
<tr>
<td>Skin corrosion</td>
<td>Category 1A</td>
</tr>
<tr>
<td>Serious eye damage</td>
<td>Category 1</td>
</tr>
<tr>
<td>Specific target organ toxicity - single exposure (Respiratory system)</td>
<td>Category 3</td>
</tr>
<tr>
<td>Chronic aquatic toxicity</td>
<td>Category 3</td>
</tr>
</tbody>
</table>

**Other information**

This material is classified as hazardous under OSHA Regulations

### 4. FIRST AID MEASURES

#### 4.1. Description of first aid measures

**Inhalation**
If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If unconscious, evaluate the need for artificial respiration. Get immediate medical attention.

**Skin contact**
Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Obtain medical attention immediately if symptoms occur. Wash clothing before reuse.

**Eye contact**
In case of contact, immediately flush eyes with plenty of water. Obtain medical attention if irritation develops.

**Ingestion**
If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

#### 4.2. Most important symptoms and effects, both acute and delayed Symptoms

None known

#### 4.3. Indication of any immediate medical attention and special treatment needed

None known.

### 5. FIRE FIGHTING MEASURES

#### 5.1. Extinguishing media

**Suitable extinguishing media**: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Dry Chemical combined with peroxide may reignite fire., Light water additives may be particularly effective at extinguishing peroxide fires.

**Unsuitable extinguishing media**: High volume water jet.

#### 5.2. Special hazards arising from the substance or mixture

The heat of decomposition of the peroxides adds to the heat of the fire. Dry chemical fire extinguishing agent may catalyze the decomposition.

#### 5.3. Advice for firefighters

If dry chemical is used to extinguish a peroxide fire, the extinguished area must be thoroughly wetted down with water to prevent re-ignition.

As in any fire, wear self-contained positive-pressure breathing apparatus and full protective gear.

Containers near the source of fire should be cooled with a water spray to prevent contents from reaching decomposition temperature.

### 6. ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Wear a self-contained breathing apparatus and appropriate personal protective equipment. (See Section 8 - Exposure Controls/Personal Protection.) Remove all sources of ignition. Ventilate the area.
6.2. Environmental precautions
Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate any
lakes, streams, ponds, groundwater or soil.

6.1. Methods and material for containment and cleaning up
Dike spill to prevent runoff from entering drains, sewers, streams, etc. Wet spilled material with water and
absorb with an inert absorbent material such as perlite, vermiculite, or sand. Sweep up using non-
sparking tools and place in a clean polyethylene drum or a polyethylene pail. DO NOT place into a steel
container, lined or unlined, as decomposition may occur. Treat any contaminated cardboard packaging
as hazardous waste. Wet container with additional water prior to sealing. Use absorbent/absorbent
material to solidify liquids. Clean up promptly by sweeping or vacuum. Wear protective equipment,
including eye protection, to avoid exposure (see Section 8 for specific handling precautions).

7. HANDLING AND STORAGE

7.1. Precautions for safe handling
Rotate stock using the oldest material first. Avoid contact with skin, eyes and clothing. Use PPE as
specified in section 8. Keep containers closed to prevent contamination. Keep away from sources of
heat, sparks, or flame. Do not add to hot solvents or monomers as a violent decomposition and/or
reaction may result. When using spray equipment, never spray raw peroxide onto curing or into raw
resin or flues. Keep peroxide in its original container. DO NOT USE NEAR FOOD OR DRINK. Wash
thoroughly after handling. Protect from contamination. Keep tightly sealed in original packing. Risk of
decomposition. Wash thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities
Storage
The stability of peroxide formulations is directly related to the shipping and storage temperature history.
Cool storage at 80° F (27°C) or below is recommended for longer shelf life and stability. Prolonged
storage at elevated temperatures of 100° F (38°C) and higher will cause product degradation, gassing
and potential container rupture which can result in a fire and/or explosion. Store out of direct sunlight in a
well ventilated area away from combustible and incompatible material. DO NOT STORE WITH FOOD
OR DRINK.
Refer to NFPA 400 Hazardous Materials Code from the National Fire Protection Association for
additional storage information.

Further information
Store apart from other dangerous and incompatible substances. Keep away from direct
sunlight. Keep containers tightly closed in a cool, well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>Methyl ethyl ketone peroxide</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS-No. 1338-23-4</td>
</tr>
<tr>
<td>Control parameters</td>
</tr>
<tr>
<td>0.2 ppm</td>
</tr>
<tr>
<td>Ceiling Limit Value:(ACGIH)</td>
</tr>
<tr>
<td>Control parameters</td>
</tr>
<tr>
<td>0.2 ppm</td>
</tr>
<tr>
<td>Ceiling Limit Value:(US CA OEL)</td>
</tr>
<tr>
<td>1.5 mg/m3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dimethyl phthalate</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS-No. 131-11-3</td>
</tr>
<tr>
<td>Control parameters</td>
</tr>
<tr>
<td>5 mg/m3</td>
</tr>
<tr>
<td>Time Weighted Average (TWA):(ACGIH)</td>
</tr>
<tr>
<td>Control parameters</td>
</tr>
<tr>
<td>5 mg/m3</td>
</tr>
<tr>
<td>Permissible exposure limit:(OSHA Z1)</td>
</tr>
<tr>
<td>Control parameters</td>
</tr>
<tr>
<td>5 mg/m3</td>
</tr>
<tr>
<td>Time Weighted Average (TWA) Permissible Exposure Limit (PEL):(US CA OEL)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Methyl ethyl ketone</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS-No. 78-93-3</td>
</tr>
<tr>
<td>Control parameters</td>
</tr>
<tr>
<td>200 ppm</td>
</tr>
<tr>
<td>Time Weighted Average (TWA):(ACGIH)</td>
</tr>
<tr>
<td>Control parameters</td>
</tr>
<tr>
<td>300 ppm</td>
</tr>
<tr>
<td>Short Term Exposure Limit (STEL):(ACGIH)</td>
</tr>
<tr>
<td>Control parameters</td>
</tr>
<tr>
<td>200 ppm 590 mg/m3</td>
</tr>
<tr>
<td>Permissible exposure limit:(OSHA Z1)</td>
</tr>
<tr>
<td>Control parameters</td>
</tr>
<tr>
<td>200 ppm</td>
</tr>
<tr>
<td>Time Weighted Average (TWA) Permissible</td>
</tr>
<tr>
<td>590 mg/m3</td>
</tr>
<tr>
<td>Exposure Limit (PEL):(US CA OEL)</td>
</tr>
<tr>
<td>Control parameters</td>
</tr>
<tr>
<td>300 ppm 885 mg/m3</td>
</tr>
<tr>
<td>Short Term Exposure Limit (STEL):(US CA OEL)</td>
</tr>
</tbody>
</table>
Hydrogen peroxide

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>7722-84-1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Control parameters</td>
<td>1 ppm</td>
</tr>
<tr>
<td>Time Weighted Average (TWA): (ACGIH)</td>
<td></td>
</tr>
<tr>
<td>Control parameters</td>
<td>1 ppm</td>
</tr>
<tr>
<td>Permissible exposure limit: (OSHA Z1)</td>
<td></td>
</tr>
<tr>
<td>Control parameters</td>
<td>1 ppm</td>
</tr>
<tr>
<td>1.4 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Time Weighted Average (TWA) Permissible Exposure Limit (PEL): (US CA OEL)</td>
<td></td>
</tr>
</tbody>
</table>

8.2. Exposure controls

**Engineering measures**
Local exhaust and mechanical ventilation recommended.

8.3 Personal protective equipment

**Respiratory protection**
A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.

**Hand protection**
Wear protective gloves made of the following materials: solvent-resistant gloves (butyl-rubber) nitrile rubber Neoprene gloves Skin should be washed after contact.

**Eye protection**
Use chemical splash goggles or face shield.

**Skin and body protection**
A safety shower and eye wash fountain should be readily available.

To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product.

**Hygiene measures**
Do not eat, drink or smoke during use.
Wash hands before breaks and immediately after handling the product.

**Protective measures**
Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical state</th>
<th>liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Water-white.</td>
</tr>
<tr>
<td>Form</td>
<td>liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>slight</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>not applicable</td>
</tr>
<tr>
<td>Melting point/range</td>
<td>no dataavailable</td>
</tr>
<tr>
<td>Boiling point/range</td>
<td>not determined</td>
</tr>
<tr>
<td>Flash point</td>
<td>76 °C (Seta closed cup)</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>not determined</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>not applicable</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>no data available</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>no data available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>no data available</td>
</tr>
<tr>
<td>Relative vapor density</td>
<td>&gt; 1</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.1</td>
</tr>
<tr>
<td>Water solubility</td>
<td>soluble</td>
</tr>
<tr>
<td>Solubility/qualitative</td>
<td>no data available</td>
</tr>
</tbody>
</table>

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9.2. Other information

The substance or mixture is an organic peroxide classified as type D.

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Partition coefficient (n-octanol/water)</td>
<td>no data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>no data available</td>
</tr>
<tr>
<td>Thermal decomposition</td>
<td>&gt; 60 °C</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>no data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>not determined</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

10.1. Reactivity
Stable under recommended storage conditions.

10.2. Chemical stability
Contact with incompatible substances can cause disintegration at or below SADT.

10.3. Possibility of hazardous reactions
Stable under recommended storage conditions.
Possibility of hazardous reactions
Vapors may form explosive mixtures with air.

10.4. Conditions to avoid
Keep away from heat and sources of ignition.
Exposure to sunlight.
Prolonged storage above 100°F (38°C). Storage above SADT. Storage near flammable or combustible material.

10.5. Incompatible materials
Keep away from strong acids, bases, heavy metals, salts, reducing agents and accelerators.
Contaminants (e.g. rust, dust, ash). Combustible materials., Risk of decomposition. Dimethylaniline, cobalt napthenate and other promoters, accelerators, reducing agents, or any hot material.

10.6. Hazardous decomposition products
Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke)., Irritant, caustic, flammable, noxious/toxic gases and vapors can develop in the case of fire and decomposition., Acrid smoke and irritating fumes.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects
No toxicological studies are available on the mixture.
carcinogenicity assessment NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
IARC: No component 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 component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Toxicological information on components

Methyl ethyl ketone peroxide
Acute oral toxicity LD50 Oral Rat(male): 1017 mg/kg
Skin irritation Causes severe skin burns and eye damage.
Causes burns.
Eye irritation Causes serious eye damage.
Risk of serious damage to eyes.
**Dimethyl phthalate**

Acute oral toxicity: LD50 Oral Rat: 8200 mg/kg

Acute inhalation toxicity: LC50: 10.4 mg/l / 6 h

Assessment: H332: Harmful if inhaled

Acute dermal toxicity: LD50 Dermal Rat: > 12000 mg/kg

Skin irritation: No skin irritation

Eye irritation: No eye irritation

Sensitization: Not sensitizing.

**Phlegmatizer**

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

Acute inhalation toxicity: LCLo Rat: > 0.12 mg/l / 6 h

Acute dermal toxicity: LD50 Dermal Rat(male/female): > 2000 mg/kg

Skin irritation: No skin irritation

Eye irritation: No eye irritation

**Hydrogen peroxide**

Acute oral toxicity: LD50 Oral Rat(male): 1026 mg/kg

Test substance: Hydrogen peroxide >= 50%

LD50 Oral Rat(female): 693.7 mg/kg

Test substance: Hydrogen peroxide >= 50%

Acute inhalation toxicity: Assessment: Harmful if inhaled.

Acute dermal toxicity: LD50 Dermal Rat(male and female): > 2000 mg/kg

Skin irritation: corrosive

Eye irritation: corrosive

Sensitization: Not sensitizing.

Assessment of STOT single exposure: May cause respiratory irritation.

**Methyl ethyl ketone**

Acute oral toxicity: LD50 Oral Rat: 2737 mg/kg

Acute inhalation toxicity: LC50 Rat: 23500 mg/l / 8 h

Acute dermal toxicity: LD50 Rabbit: 6480 mg/kg

Eye irritation: Irritating to eyes.

Assessment of STOT single exposure: Target Organs: Central nervous system

Assessment: May cause drowsiness or dizziness.

Mutagenicity assessment: This product may cause mutagenic effects.

12. **ECOLOGICAL INFORMATION**

12.1. **Toxicity**

Toxicity to fish: There is no data available for this product.

Toxicity in aquatic invertebrates: No data is available on the product itself.

Toxicity to algae: No data is available on the product itself.

12.2. **Persistence and degradability**

Biodegradability: no data available

12.3. **Bioaccumulative potential**

Bioaccumulation: no data available

12.4. **Mobility in soil**

Mobility: No data available

12.5. **Other adverse effects**

Further Information: Avoid release to the environment.
### 13. DISPOSAL CONSIDERATIONS

#### 13.1. Waste treatment methods

**Product**

Waste must be disposed of in accordance with federal, state and local regulations. Incineration is the preferred method of disposal. Contact Orca Composites for additional information. Empty containers must be handled with care due to product residue. **DO NOT HEAT OR CUT THE EMPTY CONTAINER WITH ELECTRIC OR GAS TORCH.**

**Uncleaned packaging**

Packaging material should be recycled or disposed of in accordance with federal, state and local regulations.

### 14. TRANSPORT INFORMATION

#### D.O.T. Road/Rail

<table>
<thead>
<tr>
<th>14.1 UN number:</th>
<th>UN 3105</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.2 UN proper shipping name:</td>
<td>Organic peroxide type D, liquid(Methyl ethyl ketone peroxide 5.2)</td>
</tr>
<tr>
<td>14.3 Transport hazard class(es):</td>
<td>5.2</td>
</tr>
<tr>
<td>14.4 Packing group:</td>
<td>--</td>
</tr>
<tr>
<td>14.5 Environmental hazards (Marine pollutant):</td>
<td>--</td>
</tr>
<tr>
<td>14.6 Special precautions for user:</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Air transport ICAO-TI/IATA-DGR**

<table>
<thead>
<tr>
<th>14.1 UN number:</th>
<th>UN 3105</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.2 UN proper shipping name:</td>
<td>ORGANIC PEROXIDE TYPE D, LIQUID(Methyl ethyl ketone peroxide &lt;= 45%)</td>
</tr>
<tr>
<td>14.3 Transport hazard class(es):</td>
<td>5.2</td>
</tr>
<tr>
<td>14.4 Packing group:</td>
<td>--</td>
</tr>
<tr>
<td>14.5 Environmental hazards:</td>
<td>--</td>
</tr>
<tr>
<td>14.6 Special precautions for user:</td>
<td>Yes</td>
</tr>
<tr>
<td>EMS:</td>
<td>F-J,S-R</td>
</tr>
<tr>
<td>&quot;Separated from&quot; acids and alkalis. Protected from sources of heat</td>
<td></td>
</tr>
</tbody>
</table>

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code for transport approval see regulatory information

### 15. REGULATORY INFORMATION

#### US Federal Regulations

**OSHA**

If listed below, chemical specific standards apply to the product or components: None listed

**Clean Air Act Section (112)**

If listed below, components present at or above the minimum level are hazardous air pollutants: Dimethyl phthalate CAS-No. 131-11-3
CERCLA Reportable Quantities
If listed below, a reportable quantity (RQ) applies to the product based on the percent of the named component:

**Methyl ethyl ketone peroxide**
CAS-No. 1338-23-4
Reportable Quantity 29 lbs

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SARA Title III Section 311/312 Hazard Categories
The product meets the criteria only for the listed hazard classes: Acute health hazard; Fire hazard

SARA Title III Section 313 Reportable Substances
If listed below, components are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372: None listed

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Toxic Substances Control Act (TSCA)
If listed below, non-proprietary substances are subject to export notification under Section 12 (b) of TSCA: None listed

---

State Regulations

California Proposition 65
A warning under the California Drinking Water Act is required only if listed below: None listed

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International Chemical Inventory Status
Unless otherwise noted, this product is in compliance with the inventory listing of the countries shown below. For information on listing for countries not shown, contact the Product Regulatory Services Department.

- **Europe (EINECS/ELINCS)**: listed/registered
- **USA (TSCA)**: listed/registered
- **Canada (DSL)**: listed/registered
- **Australia (AICS)**: listed/registered
- **Japan (MITI)**: listed/registered
- **Korea (TCCL)**: listed/registered
- **Philippines (PICCS)**: not listed/registered
- **China**: listed/registered
- **New Zealand**: not listed/registered

An employer using HMIS/NFPA labeling must through training ensure that its employees are fully aware of the hazards of the chemicals used.

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HMIS Ratings

<table>
<thead>
<tr>
<th>Category</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>3</td>
</tr>
<tr>
<td>Flammability</td>
<td>2</td>
</tr>
<tr>
<td>Physical Hazard</td>
<td>2</td>
</tr>
</tbody>
</table>

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NFPA Ratings

<table>
<thead>
<tr>
<th>Category</th>
<th>Rating</th>
</tr>
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<tbody>
<tr>
<td>Health</td>
<td>3</td>
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<td>Flammability</td>
<td>2</td>
</tr>
<tr>
<td>Reactivity</td>
<td>2</td>
</tr>
</tbody>
</table>
16. OTHER INFORMATION

This version replaces all previous versions.
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 given is designed only as a guidance for safe
handling, use, processing, storage, transportation, disposal and release and is not to be considered a
warranty or quality specification. The information relates only to the specific material designated and may
not be valid for such material used in combination with any other materials or in any process, unless
specified in the text.

Legend

ACC American Chemistry Council
ACGIH American Conference of Governmental Industrial Hygienists
ACS Advisory Committee on Sustainability
ADI Acceptable Daily Intake
ASTM American Society for Testing and Materials
ATP Adaptation to Technical Progress
BCF Bio-concentration factor
BOD Biochemical oxygen demand
c.c. closed cup
CAO Cargo Aircraft Only
Carc Carcinogen
CAS Chemical Abstract Services
CDN Canada
CEPA Canadian Environmental Protection Act
CERCLA Comprehensive Environmental Response – Compensation and Liability Act
CFR Code of Federal Regulations
CMR Carcinogenic-mutagenic-toxic for reproduction
COD Chemical oxygen demand
DIN German Institute for Standardization
DMEL Derived minimum effect level
DNEL Derived no effect level
DOT Department of Transportation
EC50 Half maximal effective concentration
EPA Environmental Protection Agency
ErC50 Reduction of Growth Rate
ERG Emergency Response Guide Book
FDA Food and Drug Administration
GHS Globally Harmonized System of Classification and Labelling of Chemicals (GHS)
GLP Good Laboratory Practice
GMO Genetic Modified Organism
HCS Hazard Communication Standard
HMIS Hazardous Materials Identification System
IARC International Agency for Research on Cancer
IATA International Air Transport Association
IBC Intermediate Bulk Container
ICAO -TI International Civil Aviation Organization- Technical Instructions
ICCA International Council of Chemical Association
ID Identification number
IMDG International Maritime Dangerous Goods
IUPAC International Union of Pure and Applied Chemistry
ISO International Organization For Standardization
LC50 50 % Lethal Concentration
LD50 50 % Lethal Dose
L(E)/C50 LC50 or EC50
LOAEL Lowest observed adverse effect level
LOEL Lowest observed effect level
MARPOL International Convention for the Prevention of Pollution from Ships
NFPA National Fire Protection Association
NOAEL No observed adverse effect level
NOEC no observed effect concentration
NOEL no observed effect level
o. c. open cup
OECD Organization for Economic Cooperation and Development
OEL Occupational Exposure Limit
OSHA Occupational Safety and Health Administration
PBT Persistent, bio-accumulative, toxic
PEC Predicted effect concentration
PNEC Predicted no effect concentration
RQ Reportable Quantity
SDS Safety Data Sheet
STOT Specific Target Organ Toxicity
UN United Nations
vPvB very persistent, very bioaccumulative

voc volatile organic compounds

WHMIS Workplace Hazardous Materials Information System

WHO World Health Organization