1. Identification

Product identifier REL-PAC®
Other means of identification None.
Recommended use Not available.
Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer
Company name CETCO, an MTI Company
Address 2870 Forbs Avenue
Hoffman Estates, IL 60192
United States
Telephone General Information 800 527-9948
Website http://www.cetco.com/
E-mail safetydata@mineraltech.com
Emergency phone number Emergency 1.866.519.4752/1 760 476 3962
Supplier Not available.

2. Hazard identification

Physical hazards Not classified.
Health hazards Not classified.
Environmental hazards Not classified.

Label elements

Hazard symbol None.
Signal word Warning
Hazard statement The mixture does not meet the criteria for classification.
Precautionary statement
Prevention Keep out of reach of children. Read label before use. Wash thoroughly after handling.
Response If medical advice is needed, have product container or label at hand. Call a POISON CENTER/doctor// if you feel unwell. Specific treatment (see on this label).
Storage Store away from incompatible materials.
Disposal Dispose of waste and residues in accordance with local authority requirements.
Other hazards May form combustible dust concentrations in air.

Supplemental information

100% of the mixture consists of component(s) of unknown acute oral toxicity. 100% of the mixture consists of component(s) of unknown acute dermal toxicity. 100% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 100% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

3. Composition/information on ingredients

Mixtures

The components are not hazardous or are below required disclosure limits.
DSD: Directive 67/548/EEC.
#: This substance has been assigned Community workplace exposure limit(s).
M: M-factor
PBT: persistent, bioaccumulative and toxic substance.
vPvB: very persistent and very bioaccumulative substance.
All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. *Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

Composition comments Occupational Exposure Limits for constituents are listed in Section 8. The full text for all R- and H-phrases is displayed in section 16. This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
4. First-aid measures

Inhalation
Remove to fresh air. Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact
Wash off with soap and water. Get medical attention if irritation develops or persists. Get medical advice/attention if you feel unwell. Wash contaminated clothing before reuse.

Eye contact
Get medical attention if irritation develops or persists. Get medical attention if irritation develops and persists.

Ingestion
Have victim rinse mouth thoroughly with water. If ingestion of a large amount does occur, seek medical attention. Get medical advice/attention if you feel unwell. Give several glasses of water.

Most important symptoms/effects, acute and delayed
Direct contact with eyes may cause temporary irritation.

Indication of immediate medical attention and special treatment needed
Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General information
If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

Suitable extinguishing media
Dry chemical, CO2, water spray or regular foam.

Unsuitable extinguishing media
Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical
During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters
Wear self contained breathing apparatus for fire fighting if necessary.

Fire fighting equipment/instructions
Vapors are heavier than air and may travel along the floor and in the bottom of containers. Vapors may be ignited by a spark, a hot surface or an ember.

Specific methods
Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards
No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Ventilate closed spaces before entering. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. Material can be slippery when wet.

Methods and materials for containment and cleaning up
Stop leak if you can do so without risk. Sweep up or gather material and place in appropriate container for disposal.

Large Spills: Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Environmental precautions
Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling
Use this product with adequate ventilation. Keep formation of airborne dusts to a minimum. Use spark-proof tools and explosion-proof equipment. Avoid contact with eyes, skin, and clothing. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities
Store at room temperature in the original container. Keep the container dry. Store in tightly closed container. Keep out of the reach of children. Use care in handling/storage. Store away from incompatible materials (see Section 10 of the SDS).
8. Exposure controls/personal protection

Occupational exposure limits

**Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)**

<table>
<thead>
<tr>
<th>Constituents</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>INERT OR NUISANCE DUSTS</td>
<td>TWA</td>
<td>3 mg/m³</td>
<td>Respirable particles.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10 mg/m³</td>
<td>Total particulate.</td>
</tr>
</tbody>
</table>

**Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)**

<table>
<thead>
<tr>
<th>Constituents</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>INERT OR NUISANCE DUSTS</td>
<td>TWA</td>
<td>3 mg/m³</td>
<td>Respirable fraction.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10 mg/m³</td>
<td>Total dust.</td>
</tr>
</tbody>
</table>

**Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)**

<table>
<thead>
<tr>
<th>Constituents</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>INERT OR NUISANCE DUSTS</td>
<td>TWA</td>
<td>3 mg/m³</td>
<td>Respirable fraction.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10 mg/m³</td>
<td>Inhalable fraction.</td>
</tr>
</tbody>
</table>

**Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety)**

<table>
<thead>
<tr>
<th>Constituents</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>INERT OR NUISANCE DUSTS</td>
<td>TWA</td>
<td>10 mg/m³</td>
<td>Total dust.</td>
</tr>
</tbody>
</table>

**Biological limit values**

- No biological exposure limits noted for the ingredient(s).

**Exposure guidelines**

- Contains no substances with occupational exposure limit values.

**Appropriate engineering controls**

- Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Use local exhaust ventilation.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection**

- Not normally needed. Face shield is recommended. Wear safety glasses with side shields (or goggles). Applicable for industrial settings only.

**Skin protection**

**Hand protection**

- Wear appropriate chemical resistant gloves. Applicable for industrial settings only.

**Other**

- Not normally needed. Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. Applicable for industrial settings only.

**Respiratory protection**

- Use a particulate filter respirator for particulate concentrations exceeding the Occupational Exposure Limit. Applicable for industrial settings only.

**Thermal hazards**

- Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations**

- Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Use good industrial hygiene practices in handling this material.

9. Physical and chemical properties

**Appearance**

- Free flowing wettable powder.

**Physical state**

- Solid.

**Form**

- Powder.

**Color**

- Off-white.

**Odor**

- None.

**Odor threshold**

- Not available.

**pH**

- Not available.

**Melting point/freezing point**

- Not available.
Initial boiling point and boiling range
Not available.
Flash point
Not available.
Evaporation rate
Not available.
Flammability (solid, gas)
Not available.
Upper/lower flammability or explosive limits
- Flammability limit - lower (%)
Not available.
- Flammability limit - upper (%)
Not available.
- Explosive limit - lower (%)
Not available.
- Explosive limit - upper (%)
Not available.
Vapor pressure
Not available.
Vapor density
Not available.
Relative density
Not available.
Solubility(ies)
- Solubility (water)
Not available.
Partition coefficient (n-octanol/water)
Not available.
Auto-ignition temperature
Not available.
Decomposition temperature
Not available.
Viscosity
10 - 12 mPas (1% solution, 25 C Brookfield LV; 30 rpm)
10 - 12 mPas (1% solution, 25 C Brookfield LV; 30 rpm)
Other information
- Bulk density
300 - 900 g/cm3
300 - 900 g/cm3
- Explosive properties
Not explosive.
- Molecular formula
C2H4O3.xNa.xUnspecified
- Oxidizing properties
Not oxidizing.
- Percent volatile
0 %

10. Stability and reactivity
Reactivity
The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability
Stable at normal conditions.
Possibility of hazardous reactions
Will not occur.
Conditions to avoid
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with incompatible materials. Risk of dust explosion.
Incompatible materials
Strong oxidizing agents.
Hazardous decomposition products
None known.

11. Toxicological information
Information on likely routes of exposure
- Inhalation
Not available.
- Skin contact
May be harmful in contact with skin.
- Eye contact
Direct contact with eyes may cause temporary irritation.
- Ingestion
May cause discomfort if swallowed. Expected to be a low ingestion hazard. However, ingestion is not likely to be a primary route of occupational exposure.
- Symptoms related to the physical, chemical and toxicological characteristics
Direct contact with eyes may cause temporary irritation. Exposure may cause temporary irritation, redness, or discomfort.
Information on toxicological effects
- Acute toxicity
May be harmful in contact with skin.
<table>
<thead>
<tr>
<th>Product</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>REL-PAC®</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Acute
- **Dermal**
  - LD50: Rat, 2286 mg/kg
- **Inhalation**
  - LC50: Rat, 6824 mg/l/4h
- **Oral**
  - LD50: Rat, 15000 - 27000 mg/kg

### Skin corrosion/irritation
- Prolonged skin contact may cause temporary irritation.

### Serious eye damage/eye irritation
- Direct contact with eyes may cause temporary irritation.

### Respiratory or skin sensitization
- **Respiratory sensitization**: Not a respiratory sensitizer.
- **Skin sensitization**: This product is not expected to cause skin sensitization.

### Germ cell mutagenicity
- Not mutagenic in AMES Test.

### Carcinogenicity
- Not available.

### Reproductive toxicity
- This product is not expected to cause reproductive or developmental effects.

### Specific target organ toxicity - single exposure
- Not classified.

### Specific target organ toxicity - repeated exposure
- Not classified.

### Aspiration hazard
- Not an aspiration hazard.

### Further information
- This product has no known adverse effect on human health.

### 12. Ecological information
- **Ecotoxicity**: Inherently biodegradable.
- **Persistence and degradability**: No data is available on the degradability of this product.
- **Bioaccumulative potential**: No data available.
- **Mobility in soil**: No data available.
- **Other adverse effects**: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

### 13. Disposal considerations
- **Disposal instructions**: Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Local disposal regulations**: Dispose in accordance with all applicable regulations.
- **Hazardous waste code**: The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
- **Waste from residues / unused products**: Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
- **Contaminated packaging**: Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

### 14. Transport information
- **TDG**: Not regulated as dangerous goods.
- **IATA**: Not regulated as dangerous goods.
- **IMDG**: Not regulated as dangerous goods.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

15. Regulatory information

Canadian regulations
This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all the information required by the CPR. This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

Controlled Drugs and Substances Act
Not regulated.

Export Control List (CEPA 1999, Schedule 3)
Not listed.

Greenhouse Gases
Not listed.

Precursor Control Regulations
Not regulated.

International regulations
The product does not need to be labelled in accordance with EC directives or respective national laws.

Stockholm Convention
Not applicable.

Rotterdam Convention
Not applicable.

Kyoto protocol
Not applicable.

Montreal Protocol
Not applicable.

Basel Convention
Not applicable.

International Inventories

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>No</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>No</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSSL)</td>
<td>No</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>No</td>
</tr>
<tr>
<td>Europe</td>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
<td>No</td>
</tr>
<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
<td>No</td>
</tr>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>No</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>No</td>
</tr>
<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>No</td>
</tr>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCCS)</td>
<td>No</td>
</tr>
<tr>
<td>Taiwan</td>
<td>Taiwan Chemical Substance Inventory (TCSI)</td>
<td>No</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>No</td>
</tr>
</tbody>
</table>

*A “Yes” indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A “No” indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information

Issue date                  26-September-2018
Revision date               26-September-2018
Version #                   16
Further information         This safety datasheet only contains information relating to safety and does not replace any product information or product specification.
Material name: REL-PAC®
4156   Version #: 16   Revision date: 26-September-2018   Issue date: 26-September-2018