# Penetrating Oil Aerosol
## Safety Data Sheet

### SECTION 1: Product and company identification

<table>
<thead>
<tr>
<th>Product name</th>
<th>Penetrating Oil Aerosol</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use of the substance/mixture</td>
<td>Aerosol Lubricant.</td>
</tr>
<tr>
<td>Product code</td>
<td>810001</td>
</tr>
<tr>
<td>Company</td>
<td>Share Corporation</td>
</tr>
<tr>
<td>P.O. Box</td>
<td>245013</td>
</tr>
<tr>
<td>Milwaukee, WI</td>
<td>53224 - USA</td>
</tr>
<tr>
<td>T</td>
<td>(414) 355-4000</td>
</tr>
<tr>
<td>Emergency number</td>
<td>Chemtrec: (800) 424-9300</td>
</tr>
</tbody>
</table>

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

**Classification (GHS-US)**
- Flam. Aerosol 1  H222
- Liquefied gas   H280
- Skin Irrit. 2   H315
- Eye Irrit. 2A   H319
- Skin Sens. 1B   H317
- Muta. 2         H341
- Carc. 1B        H350
- STOT SE 3       H336
- Asp. Tox. 1     H304

Full text of H-phrases: see section 16

#### 2.2. Label elements

**GHS-US labeling**

- Hazard pictograms (GHS-US): ![GHS02](image1.png), ![GHS04](image2.png), ![GHS07](image3.png), ![GHS08](image4.png)

- Signal word (GHS-US): Danger
- Hazard statements (GHS-US):
  - Extremely flammable aerosol
  - Contains gas under pressure; may explode if heated
  - May be fatal if swallowed and enters airways
  - Causes skin irritation
  - May cause an allergic skin reaction
  - Causes serious eye irritation
  - May cause drowsiness or dizziness
  - Suspected of causing genetic defects (Inhalation)
  - May cause cancer (Inhalation)

- Precautionary statements (GHS-US):
  - Obtain special instructions before use
  - Do not handle until all safety precautions have been read and understood
  - Keep away from heat, sparks, open flames, hot surfaces, Do not smoke. - No smoking
  - Do not spray on an open flame or other ignition source
  - Pressurized container: Do not pierce or burn, even after use
  - Avoid breathing mist, spray
  - Wash thoroughly after handling
  - Use only outdoors or in a well-ventilated area
  - Contaminated work clothing must not be allowed out of the workplace
  - Wear protective gloves, eye protection
  - If swallowed: Immediately call a doctor, a POISON CENTER, Do NOT induce vomiting
  - If on skin: Wash with plenty of soap and water
  - If inhaled: Remove person to fresh air and keep comfortable for breathing
  - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
  - If exposed or concerned: Get medical advice/attention
  - Call a POISON CENTER, a doctor if you feel unwell
  - Do NOT induce vomiting
  - If skin irritation or rash occurs: Get medical advice/attention
  - If eye irritation persists: Get medical advice/attention
  - Take off contaminated clothing and wash it before reuse
  - Store in a well-ventilated place. Keep container tightly closed
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Store locked up
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F
Dispose of contents/container to comply with local/regional/national/international regulations

2.3. Other hazards
No additional information available

2.4. Unknown acute toxicity (GHS US)
Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance
Not applicable
Full text of H-phrases: see section 16

3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification (GHS-US)</th>
</tr>
</thead>
<tbody>
<tr>
<td>trichloroethylene, trichloroethene</td>
<td>(CAS No) 79-01-6</td>
<td>30 - 40</td>
<td>Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Mut. 2, H341; Carc. 1B, H350; STOT SE 3, H336; Aquatic Chronic 3, H412</td>
</tr>
<tr>
<td>kerosine (petroleum)</td>
<td>(CAS No) 8008-20-6</td>
<td>20 - 30</td>
<td>Flam. Liq. 3, H226</td>
</tr>
<tr>
<td>Distillates (petroleum), solvent-refined heavy paraffinic</td>
<td>(CAS No) 64741-68-4</td>
<td>10 - 20</td>
<td>Carc. 1B, H350</td>
</tr>
<tr>
<td>Distillates (petroleum), light distillate hydrotreating process, low boiling</td>
<td>(CAS No) 68410-97-9</td>
<td>5 - 10</td>
<td>Not classified</td>
</tr>
<tr>
<td>carbon dioxide, liquefied, under pressure</td>
<td>(CAS No) 124-38-9</td>
<td>1 - 5</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general
If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation
Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

First-aid measures after skin contact
Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

First-aid measures after eye contact
Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion
Do not induce vomiting. Immediately call a poison center or doctor/physician. Vomiting: prevent asphyxia/aspiration pneumonia.

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

Symptoms/injuries
Extremely flammable. Contents under pressure. May be fatal if swallowed and enters airways. May cause drowsiness or dizziness. May cause cancer (Inhalation). Suspected of causing genetic defects (Inhalation). Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction.

Symptoms/injuries after inhalation
Harmful if inhaled.

Symptoms/injuries after skin contact
Causes skin irritation.

Symptoms/injuries after eye contact
Causes serious eye irritation.

Symptoms/injuries after ingestion
May be fatal if swallowed and enters airways.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media

5.2. Special hazards arising from the substance or mixture

Fire hazard
Flammable aerosol. Under fire conditions closed containers may rupture or explode.

Explosion hazard
Contains gas under pressure; may explode if heated. Vapors may travel long distances along ground before igniting/flashing back to vapor source.

Reactivity
Upon combustion: CO and CO2 are formed.

5.3. Advice for firefighters

Firefighting instructions
Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers.

Protection during firefighting
Do not attempt to take action without suitable protective equipment.
SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures: Evacuate unnecessary personnel. Isolate from fire, if possible, without unnecessary risk. Gas is denser than air. May accumulate in low areas e.g. close to the ground.

6.1.1. For non-emergency personnel

Protective equipment: Do not enter without an appropriate protective equipment.

6.1.2. For emergency responders

Protective equipment: Equip cleanup crew with proper protection.

Emergency procedures: Stop leak if safe to do so. Stop release. Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Do not allow to enter drains or water courses.

6.3. Methods and material for containment and cleaning up

For containment: Stop leak if safe to do so. Isolate area until gas has dispersed. Eliminate every possible source of ignition. Use water spray to disperse the vapors. Collect spillage.

Methods for cleaning up: Take up liquid spill into inert absorbent material.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed: Pressurized container: Do not pierce or burn, even after use.

Precautions for safe handling: Avoid contact with skin, eyes and clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Pressurized container: Do not pierce or burn, even after use.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures: Do not puncture, incinerate or crush.

Storage conditions: Do not expose to temperatures exceeding 50 °C/122 °F.

Heat-ignition: KEEP SUBSTANCE AWAY FROM: ignition sources. heat sources.

Storage area: Store in a cool area. Store away from heat.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Substance</th>
<th>ACGIH TWA (ppm)</th>
<th>ACGIH STEL (ppm)</th>
<th>Remark (ACGIH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>trichloroethylene, trichloroethene (79-01-6)</td>
<td></td>
<td></td>
<td>CNS impair; cognitive decrements</td>
</tr>
<tr>
<td>ACGIH</td>
<td>10 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACGIH</td>
<td>25 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACGIH</td>
<td>Remark (ACGIH)</td>
<td>CNS impair; cognitive decrements</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Substance</th>
<th>ACGIH TWA (mg/m³)</th>
<th>Remark (ACGIH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>kerosine (petroleum) (8008-20-6)</td>
<td>200 mg/m³ (Kerosene/ Jet fuels, as total hydrocarbon vapor; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Application restricted to conditions in which there are negligible aerosol exposures)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Substance</th>
<th>ACGIH TWA (ppm)</th>
<th>ACGIH STEL (ppm)</th>
<th>Remark (ACGIH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>carbon dioxide, liquefied, under pressure (124-38-9)</td>
<td>5000 ppm (Carbon dioxide; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)</td>
<td>30000 ppm (Carbon dioxide; USA; Short time value; TLV - Adopted Value)</td>
<td></td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Appropriate engineering controls: Ensure good ventilation of the work station.

Personal protective equipment: Protective goggles. Safety glasses.
SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical state</th>
<th>Gas</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Aerosol. clear. Colorless liquid.</td>
</tr>
<tr>
<td>Odor</td>
<td>Solvent-like odour</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>No data available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>&lt; 60 °F (liquid portion)</td>
</tr>
<tr>
<td>Relative evaporation rate (butyl acetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosion limits</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapor density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Specific gravity / density</td>
<td>1 g/ml</td>
</tr>
<tr>
<td>Solubility</td>
<td>Insoluble in water.</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Log Kow</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>&lt; 20 cSt</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
<tr>
<td>VOC content</td>
<td>79 %</td>
</tr>
</tbody>
</table>

SECTION 10: Stability and reactivity

10.1. Reactivity
Upon combustion: CO and CO2 are formed.

10.2. Chemical stability
The product is stable at normal handling- and storage conditions.

10.3. Possibility of hazardous reactions
Hazardous polymerization does not occur.

10.4. Conditions to avoid
No flames, No sparks. Eliminate all sources of ignition.

10.5. Incompatible materials
Alkalis. Oxidizing agent. aluminum. lithium.

10.6. Hazardous decomposition products
Carbon dioxide. Carbon monoxide. HCl.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

<table>
<thead>
<tr>
<th>kerosine (petroleum) (8008-20-6)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
</tr>
<tr>
<td>LC50 inhalation rat (mg/l)</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
</tr>
</tbody>
</table>
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<table>
<thead>
<tr>
<th>Respiratory or skin sensitization</th>
<th>May cause an allergic skin reaction.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Germ cell mutagenicity</td>
<td>Suspected of causing genetic defects (Inhalation).</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>May cause cancer (Inhalation).</td>
</tr>
</tbody>
</table>

**trichloroethylene, trichloroethene (79-01-6)**
- IARC group: 2A - Probably Carcinogenic to Humans
- National Toxicology Program (NTP) Status: 3 - Reasonably anticipated to be Human Carcinogen

**kerosine (petroleum) (8008-20-6)**
- IARC group: 3 - Not Classifiable
- Reproductive toxicity: Not classified.
- Specific target organ toxicity (single exposure): May cause drowsiness or dizziness.
- Specific target organ toxicity (repeated exposure): Not classified
- Aspiration hazard: May be fatal if swallowed and enters airways.
- Symptoms/injuries after inhalation: Harmful if inhaled.
- Symptoms/injuries after skin contact: Causes skin irritation.
- Symptoms/injuries after eye contact: Causes serious eye irritation.
- Symptoms/injuries after ingestion: May be fatal if swallowed and enters airways.
- Likely routes of exposure: Dermal; Inhalation

**SECTION 12: Ecological information**

12.1. **Toxicity**

**kerosine (petroleum) (8008-20-6)**
- LC50 fish 1: 2.5, LL50; OECD 203: Fish, Acute Toxicity Test; 96 h; Oncorhynchus mykiss; Semi-static system; Fresh water; Experimental value
- EC50 Daphnia 1: 1.4 mg/l (EL50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)
- Threshold limit algae 1: 1.3, EL50; OECD 201: Alga, Growth Inhibition Test; 72 h; Pseudokirchneriella subcapitata; Static system; Fresh water; Experimental value
- Threshold limit algae 2: 1 mg/l (NOEL; OECD 201: Alga, Growth Inhibition Test; 48 h; Pseudokirchneriella subcapitata; Static system; Fresh water; Experimental value)

**carbon dioxide, liquefied, under pressure (124-38-9)**
- LC50 fish 1: 35 mg/l (LC50; 96 h; Salmo gairdneri)

12.2. **Persistence and degradability**

**kerosine (petroleum) (8008-20-6)**
- Persistence and degradability: Biodegradable in water. No significant hydrolysis. Adsorbs into the soil.

**carbon dioxide, liquefied, under pressure (124-38-9)**
- Persistence and degradability: Biodegradability: not applicable. Not applicable (gas).

- Biochemical oxygen demand (BOD): Not applicable
- Chemical oxygen demand (COD): Not applicable
- ThOD: Not applicable

12.3. **Bioaccumulative potential**

**kerosine (petroleum) (8008-20-6)**
- Bioaccumulative potential: No test data available.

**carbon dioxide, liquefied, under pressure (124-38-9)**
- Log Pow: 0.83 (Experimental value)
- Bioaccumulative potential: Bioaccumulation: not applicable.

**SECTION 13: Disposal considerations**

13.1. **Waste treatment methods**
- Waste treatment methods: Dispose of contents/container to comply with local/regional/national/international regulations.

**SECTION 14: Transport information**

Department of Transportation (DOT)
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Transport document description: UN1950 Aerosols (flammable, (each not exceeding 1 L capacity)), 2.1
UN-No.(DOT): UN1950
Proper Shipping Name (DOT): Aerosols flammable, (each not exceeding 1 L capacity)
Transport hazard class(es) (DOT): 2.1 - Class 2.1 - Flammable gas 49 CFR 173.115
Hazard labels (DOT): 2.1 - Flammable gas

DOT Packaging Non Bulk (49 CFR 173.xxx): None
DOT Packaging Bulk (49 CFR 173.xxx): None
DOT Special Provisions (49 CFR 172.102): N82
DOT Packaging Exceptions (49 CFR 173.xxx): 306
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27): 75 kg
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75): 150 kg
DOT Vessel Stowage Location: A
DOT Vessel Stowage Other: 25 - Shade from radiant heat. 87 - Stow “separated from” Class 1 (explosives) except Division 14,126 - Segregation same as for Class 9, miscellaneous hazardous materials

Additional information
Other information: No supplementary information available.

ADR
No additional information available

Transport by sea
No additional information available

Air transport
No additional information available

SECTION 15: Regulatory information

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

trichloroethylene, trichloroethene
Chemical CAS No. 79-01-6

trichloroethylene, trichloroethene (79-01-6)
Listed on SARA Section 313 (Specific toxic chemical listings)

RQ (Reportable quantity, section 304 of EPA’s List of Lists) 100 lb

California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer and/or reproductive toxicity.

SECTION 16: Other information

Training advice: Normal use of this product shall imply use in accordance with the instructions on the packaging.

Full text of H-phrases:

<table>
<thead>
<tr>
<th>H-phrase</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aquatic Chronic 3</td>
<td>Hazardous to the aquatic environment - Chronic Hazard Category 3</td>
</tr>
<tr>
<td>Asp. Tox. 1</td>
<td>Aspiration hazard Category 1</td>
</tr>
<tr>
<td>Carc. 1B</td>
<td>Carcinogenicity Category 1B</td>
</tr>
<tr>
<td>Eye Irrit. 2A</td>
<td>Serious eye damage/eye irritation Category 2A</td>
</tr>
<tr>
<td>Flam. Aerosol 1</td>
<td>Flammable aerosol Category 1</td>
</tr>
<tr>
<td>Flam. Liq. 3</td>
<td>Flammable liquids Category 3</td>
</tr>
</tbody>
</table>

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### Safety Data Sheet

**Date of issue**: 8/13/2015  
**Revision date**: 05/15/2015  
**Version**: 1.0

### NFPA health hazard

- **Value**: 2  
  - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

### NFPA fire hazard

- **Value**: 4  
  - Will rapidly or completely vaporize at normal pressure and temperature, or is readily dispersed in air and will burn readily.

### NFPA reactivity

- **Value**: 0  
  - Normally stable, even under fire exposure conditions, and are not reactive with water.

<table>
<thead>
<tr>
<th>Hazard Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H222</td>
<td>Extremely flammable aerosol</td>
</tr>
<tr>
<td>H226</td>
<td>Flammable liquid and vapor</td>
</tr>
<tr>
<td>H280</td>
<td>Contains gas under pressure; may explode if heated</td>
</tr>
<tr>
<td>H304</td>
<td>May be fatal if swallowed and enters airways</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>H317</td>
<td>May cause an allergic skin reaction</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td>H336</td>
<td>May cause drowsiness or dizziness</td>
</tr>
<tr>
<td>H341</td>
<td>Suspected of causing genetic defects</td>
</tr>
<tr>
<td>H350</td>
<td>May cause cancer</td>
</tr>
<tr>
<td>H412</td>
<td>Harmful to aquatic life with long lasting effects</td>
</tr>
<tr>
<td>Liquefied gas</td>
<td>Gases under pressure Liquefied gas</td>
</tr>
<tr>
<td>Muta. 2</td>
<td>Germ cell mutagenicity Category 2</td>
</tr>
<tr>
<td>Skin Irrit. 2</td>
<td>Skin corrosion/irritation Category 2</td>
</tr>
<tr>
<td>Skin Sens. 1B</td>
<td>Skin sensitization Category 1B</td>
</tr>
<tr>
<td>STOT SE 3</td>
<td>Specific target organ toxicity (single exposure) Category 3</td>
</tr>
</tbody>
</table>

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Prepared by: Technical Department

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety, and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. No warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Our company assumes no responsibility for personal injury or property damage to the vendee, users or third parties caused by the material. Such vendees or users assume all risks associated with the use of this material.