

Safety Data Sheet

1. Identification

Product Identifier : Persan 15 Oil & Gas
 Recommended Uses : Sanitizer
 Supplier : Peralab Inc.
 P.O. Box 94
 Station Main
 Fergus, Ontario
 N1M 2W7
 Emergency Telephone : (613) 996-6666 (CANUTEC)

2. Hazard Identification

| | | |
|---------------------------|---|------------|
| Product Classifications : | Flammable Liquids | Category 4 |
| | Organic Peroxides | Type F |
| | Corrosive to Metals | Category 1 |
| | Acute Toxicity, Oral | Category 4 |
| | Acute Toxicity, Dermal | Category 4 |
| | Acute Toxicity, Inhalation | Category 4 |
| | Skin Corrosion/Irritation | Category 1 |
| | Serious Eye Damage/Eye Irritation | Category 1 |
| | Specific Target Organ Toxicity, Single Exposure | Category 3 |

Symbols :



Signal Word : Danger

Hazard Statements : Combustible liquid.
 Heating may cause a fire.
 Causes severe skin burns and eye damage.
 May be corrosive to metals.
 Harmful if swallowed, inhaled or in contact with skin.
 May cause respiratory irritation.

Precautionary Statements : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep cool. Wear protective gloves, protective clothing and eye protection/face protection. Avoid breathing

vapours. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Immediately call a POISON CONTROL CENTRE or doctor.

Store locked up. Protect from sunlight. Store in a well-ventilated place. Store separately. Store at temperatures not exceeding 30°C/86°F. Keep only in original packaging. Absorb spillage to prevent material-damage. Dispose of contents/container according to local, provincial and federal regulations.

3. Composition/Information on Ingredients

Hazardous Ingredients :

| Chemical Name | CAS Number | Concentration (% w/w)* |
|-------------------|------------|------------------------|
| Acetic acid | 64-19-7 | 30 - 60 |
| Peracetic acid | 79-21-0 | 10 - 30 |
| Hydrogen peroxide | 7722-84-1 | 3 - 7 |

* The actual concentration is withheld as a trade secret.

4. First Aid Measures

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CONTROL CENTRE or doctor.

IF ON SKIN (or hair): Wash with plenty of water. Take off contaminated clothing and wash it before reuse. Immediately call a POISON CONTROL CENTRE or doctor.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CONTROL CENTRE or doctor.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CONTROL CENTRE or doctor.

Symptoms of Acute Exposure

| | |
|----------------|--|
| Eye contact : | Burns, redness, watering, pain, loss of vision. |
| Skin contact : | Severe burns, redness, itching, swelling, damage to underlying tissues. |
| Ingestion : | Burns, irritation, swelling. |
| Inhalation : | Irritation of nose, throat and respiratory tract. Coughing, difficulty breathing and/or shortness of breath. |

5. Fire Fighting Measures

| | |
|---|---|
| Suitable Extinguishing Media : | As for surrounding fire. Suitable materials include water spray, carbon dioxide, and alcohol-resistant foam. |
| Unsuitable Extinguishing Media : | Dry chemical extinguishers are not effective. |
| Specific Hazards and Combustion Products : | Combustible liquid. Can ignite if heated. Contact with soft metals forms flammable hydrogen gas. Vapours may travel considerable distance to a source of ignition and flash back. Decomposition of the product releases oxygen which may intensify fire. During fire, gases hazardous to health may be formed. Combustion products include oxides of carbon, oxides of sulphur, oxides of phosphorus. |
| Protective Equipment and Precautions for Firefighters : | As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Move containers from fire area if possible without risk. Keep containers cool with water spray. Collect contaminated fire extinguishing water and other media separately. |

6. Accidental Release Measures

| | |
|----------------------------|--|
| Personal Precautions : | Immediately evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Eliminate sources of ignition. Do not breathe vapour. Wear appropriate personal protective equipment (See Section 8: Exposure controls / Personal protection). Only trained and properly protected personnel must be involved in clean-up operations. |
| Containment and Clean Up : | Stop leak if it is safe to do so. Dike spilled material, where possible. Absorb with suitable inert dry material such as absorbent clay and place into closed containers for disposal. Use only non-sparking tools. Do not use textiles, sawdust, or combustible substances. Avoid dispersal of spilled material or contact with soil or entry into waterways, sewers and drains. Dispose of contents/containers according to local, provincial, and federal regulations. Following product recovery, flush area with water. |

7. Handling and Storage

| | |
|------------|---|
| Handling : | Avoid contact with skin, eyes, and clothing. Use personal protective equipment as required (See Section 8: Exposure controls / Personal protection). Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wash thoroughly after handling. |
| Storage : | Keep away from incompatible materials (See Section 10: Stability and Reactivity). Keep away from heat. Keep out of direct sunlight. Keep away from strong bases. |

Keep away from hypochlorites and chlorine-releasing compounds. Keep container tightly closed when not in use. Keep only in original packaging. Store in a cool, dry, well-ventilated place. Store at temperatures not exceeding 30°C/86°F. Store separately. Store locked up.

8. Exposure Controls/Personal Protection

Control Parameters :

| Chemical Name | CAS Number | Value type | Permissible Concentration | Basis |
|-------------------|------------|------------|---------------------------|-------|
| Acetic acid | 64-19-7 | TLV-TWA | 10 ppm | ACGIH |
| | | TLV-STEL | 15 ppm | ACGIH |
| Peracetic acid | 79-21-0 | TLV | Not established | |
| Hydrogen peroxide | 7722-84-1 | TLV-TWA | 1 ppm | ACGIH |

Engineering Controls : Ensure adequate ventilation. Provide local exhaust ventilation to control fumes.

Personal Protection :

Eye/Face : Safety glasses or chemical splash goggles, and face shield.
 Skin : Chemical-resistant protective gloves.
 Respiratory : If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.
 Other : Long pants and long sleeved shirt. Rubber boots and rubber apron as necessary.

9. Physical and Chemical Properties

Appearance : Clear, colourless liquid
 Odour : Pungent acetic acid (vinegar) odour
 Odour Threshold : Not available
 pH : Less than 1
 Freezing Point : Less than -50°C
 Boiling Point : Not available
 Flash Point : 70 - 80°C
 Evaporation Rate : Not available
 Flammability (solids and gases) : Not applicable
 Lower Flammability Limit : Not available
 Upper Flammability Limit : Not available
 Vapour Pressure : Not available
 Vapour Density : Not available
 Relative Density : 1.12
 Solubility : Complete in water
 Partition Coefficient : Not available
 Auto-ignition Temperature : Not available
 Decomposition Temperature : Not available
 Viscosity : Not available

10. Stability and Reactivity

| | |
|------------------------------------|---|
| Reactivity : | With incompatible materials. Contact with soft metals forms flammable hydrogen gas. Contact with hypochlorites and chlorine-releasing compounds forms toxic chlorine gas. |
| Chemical stability : | Chemically stable. |
| Hazardous reactions : | With incompatible materials. Polymerization not expected to occur. |
| Conditions to avoid : | Avoid incompatible materials. Avoid heating or elevated temperatures. |
| Incompatible materials : | Strong bases, metals, reducing agents, hypochlorites and chlorine-releasing compounds. |
| Hazardous decomposition products : | Oxygen which supports combustion. |

11. Toxicological Information

Routes of Exposure

| | |
|----------------|---|
| Eye contact : | Causes serious eye damage. |
| Skin contact : | Causes severe skin burns. |
| Ingestion : | Causes burns to mouth, throat and stomach. |
| Inhalation : | May cause irritation to nose, throat and respiratory tract. |

Symptoms of Acute Exposure

| | |
|----------------|--|
| Eye contact : | Burns, redness, watering, pain, loss of vision. |
| Skin contact : | Severe burns, redness, itching, swelling, damage to underlying tissues. |
| Ingestion : | Burns, irritation, swelling. |
| Inhalation : | Irritation of nose, throat and respiratory tract. Coughing, difficulty breathing and/or shortness of breath. |

Calculated Acute Toxicity Estimates :

| | |
|--------------|-------------|
| Oral : | 558 mg/kg |
| Dermal : | 1,876 mg/kg |
| Inhalation : | 17,288 ppm |

12. Ecological Information

No data available.

13. Disposal Considerations

Dispose of contents/container according to local, provincial and federal regulations.

14. Transportation Information

For transportation in a road vehicle or railway vehicle :

| | | |
|----------------------|--------------------|--|
| TDG Classification : | UN Number: | 3109 |
| | Shipping Name : | ORGANIC PEROXIDE TYPE F LIQUID (Peroxyacetic Acid, Hydrogen Peroxide) |
| | Class : | 5.2 |
| | Subclass : | None |
| | Packing Group : | II |
| | Limited Quantity : | 125 mL |

15. Regulatory Information

Not available.

16. Other Information

SDS Revision Date : June 25, 2020