

Material Safety Data Sheet

Issued Date : 1st March, 2001

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1 [Identification of the Preparation and Company]

Product Name : PULSTAR Item Code : 998-700-0
Product Group : Industrial Lubricant Oil for Impulse Tool
Contact Details of Company : URYU Seisaku, Ltd.
Engineering Department
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2 [Composition / Information on Ingredients]

Chemical Characterisation : Petroleum hydrocarbon containing additives
Content : Lubricant Oil \geq 90% Proprietary Additives \leq 10%
Chemical Formula or Structure : Unidentifiable
CAS No. : Lubricant Oil 57675-44-2
Proprietary Additives Mixture (25322-68-3, 12774-81-1, 51311-17-2)
U.N. Number : None
PRTR (Pollutant Release & Transfer Register) : Not Applicable
Safety and Health Law Notification Material : Not Applicable

3. [Hazards Identification]

Hazard Category : Not Applicable
Hazard Designation : Flammable (The Fire Laws : Article4 No.4 Petroleum)
Noxiousness : No data available

4. [First Aid Measures]

Inhalation : Remove to fresh air, keep the patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Give nothing by mouth. If unconscious, place in the recovery position and seek medical advice.

Skin Contact : Remove contaminated clothing immediately and wash affected skin with soap and water. DO NOT use solvents or thinners as skin cleaning agents.

Eye Contact : Contact lenses should be removed. Promptly wash eyes with lots of water while lifting the eyelids. Continue to rinse for at least 15 minutes and get medical advice.

Ingestion : Low toxicity. If swallowed, seek medical advice immediately.

5. [Fire Fighting Measures]

Suitable Extinguishing Media : Dry Powders, Carbon Dioxide (CO₂), Water Spray, Foam, Dry Chemical etc.

Fire Fighting Procedures : Remove combustibles from fire. Powder type and foam type extinguishers will have an effect on early fire. Air insulation covered by sand / foam will be effective for a large fire.

6. [Accidental Release Measures]

Shut off source taking normal safety precautions. Take measures to minimise the effects on ground water. Remove potential sources of ignition nearby immediately and prepare fire extinguishers. Use sand or other suitable absorbent to collect the spill material as much as possible. When collecting, use safety equipments not producing sparks.

Personal Precautions : Avoid contact with skin, eyes and clothing.
High risk of slipping due to leakage / spillage of Product
Ensure adequate ventilation.

Environmental Precautions : Do not discharge into the drains, surface- and ground-water and soil.

Methods for Cleaning Up / Collecting : Remove mechanically, take up residues with absorbent materials.

Dispose of in accordance with regional regulations.

7. [Handling and Storage]

Caution : Flammable / No Fire

Handling : Handle container with care.

Cleanse skin thoroughly after contact, before breaks and meals and at the end of work period. Pay attention to leakage / spillage. Do not overheat or it will produce vapours / mists.

Storage : Keep containers closed when not in use. Do not store in open or unlabelled containers. Store away from strong oxidising agents and combustible materials. Do not store near ignition sources (heat, sparks, flame or strong oxidants). Keep container tightly closed in a dry, cool and well-ventilated place and protect from direct sunlight.

8. [Exposure Controls and Personal Protection]

OCCUPATIONAL EXPOSURE LIMITS: When mists/aerosols can occur, the following are recommended: 5 mg/m³ (as oil mist)- ACGIH Threshold Limit Value (TLV), 10 mg/m³ (as oil mist) - ACGIH Short Term Exposure Limit (STEL), 5 mg/m³ (as oil mist) – OSHA Permissible Exposure Limit (PEL)

Exposure Limits : Not Applicable

Permissible Concentration	: Not Applicable
Facilities	: Enclosed Equipment in Well-Ventilated Place
Personal Protections	: Splash Goggles, Face Shield, Chemical-Resistant Gloves, Chemical-Resistant Boots, Long-sleeved Clothing etc.

9. **Physical and Chemical Properties**

9.1 Appearance

Form	: Liquid
Colour	: Dark Grey
Odour	: Mild Petroleum Odour

9.2 Safety Parameters

Volatility	: None
Viscosity	: Approx. 43.66cST@40°C
Specific Gravity	: Approx. 0.92@15°C
Boiling Point	: Not Applicable
Flash Point	: 245°C (Open cup)
Vapour Pressure	: Not Applicable
Pour Point	: Approx. -15.0°C
Evaporation Rate	: Not Applicable
Solubility in Water	: Negligible
	Soluble in solvents such as Alcohol, Ether and Acetone

10. **Stability and Reactivity**

Flash Point	: 245°C (Open cup)
Stability	: Stable
Reactivity	: If mixed with alkaline substance and heated, it will generate soap.

11. **Toxicological Information**

Acute Toxicity	: No Data Available
	(No report on strong oral toxicity or harmfulness by general fatty acids)
Irritant	: Prolonged or repeated contact may irritate skin.

12. **Ecological Information**

Ecotoxicity	: No data available
Degradability	: No data available
Bioaccumulation	: No data available

13. **Disposal Considerations**

Recommendations for Product	: No special considerations required
Recommendations for Container	: Empty containers should be completely drained.

14. **Transport Information**

Caution : Flammable / No Fire

Secure container firmly to prevent damage due to drop / shock etc.

Make sure no rust or corrosion on container is evident, and no leakage before transport.

15. [Regulatory Information]

Registration into the list of existing chemicals

Fire Laws : Dangerous Object Article 4 No.4 Petroleum (Limit Qty : 6,000 Litres)

Water Pollution Prevention Act : Oil Discharge Regulation (Prohibited in principle)

Ocean Pollution Prevention Act : Oil Discharge Regulation (Prohibited in principle)

Sewerage Laws : Mineral Oil Discharge Regulation (5mg / litre)

Laws Regarding Disposal of Waste & Cleaning : Industrial Waste Regulation

(Prohibition against Diffusion & Efflux)

16. [Other Information]

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. It does not represent a guarantee for the properties of the product described in terms of tie legal warranty regulations.
