

RP-90 Penetrating Oil with Molybdenum Disulfide



SAFETY DATA SHEET

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 453/2010

1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

| | | |
|--|---|--|
| 1.1 Product identifier | Product Name Trade Name Part No. CAS No. EINECS No. REACH Registration No. | RP-90 Penetrating Oil with Molybdenum Disulfide. RP-90 Penetrating Oil with Molybdenum Disulfide. 1822 Mixture. Mixture. None assigned. |
| 1.2 Relevant identified uses of the substance or mixture and uses advised against | Identified use(s) Uses advised against | Industrial product not intended for supply to the general public. Lubricant/ Anti-Rust Fluid/ Penetrant. Do not mix with other chemicals. |
| 1.3 Details of the supplier of the Safety Data Sheet | Company Identification | |
| | Telephone Fax E-Mail (competent person) | |
| 1.4 Emergency telephone number | Emergency Phone No. | |

2. SECTION 2: HAZARDS IDENTIFICATION

| | |
|---|--|
| 2.1 Classification of the substance or mixture Regulation (EC) No. 1272/2008 (CLP) | Aerosol 1; Extremely flammable aerosol. Pressurised container: May burst if heated. STOT SE 3; May cause drowsiness or dizziness. Aquatic Chronic 3; Harmful to aquatic life with long lasting effects. Repeated exposure may cause skin dryness or cracking. |
| 2.2 Label elements | According to Regulation (EC) No. 1272/2008 (CLP) RP-90 Rapid Penetrating and Release Fluid. |
| Hazard pictogram(s) |   |
| Signal word(s) | GHS02 GHS07 Danger. |



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|-----------------------------------|---|
| Hazard statement(s) | H222: Extremely flammable aerosol. H229: Pressurised container: May burst if heated. H336: May cause drowsiness or dizziness. H412: Harmful to aquatic life with long lasting effects. EUH066: Repeated exposure may cause skin dryness or cracking. |
| Precautionary statement(s) | P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211: Do not spray on an open flame or other ignition source. P251: Do not pierce or burn, even after use. P261: Avoid breathing vapours. P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F. |
| Additional Information | Keep out of reach of children. Do not spray on a naked flame or any incandescent material. This product is aerosol packed and in a limited quantity as such it is unlikely to pose a significant spill or environmental hazard. |
| 2.3 Other hazards | None. |
| 2.4 Additional Information | For full text of H/P phrases see section 16. Gloves advised as general industrial good practice. |

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Product as supplied: Aerosol.

3.1 Mixtures

EC Classification No. 1272/2008

| Hazardous ingredient(s) | %W/W | CAS No. | EC No. | REACH Registration No. | Hazard pictogram(s) and Hazard statement(s) |
|---|---------|------------|-----------|------------------------|--|
| Naphtha (petroleum), hydrotreated heavy | 50 - 75 | 64742-48-9 | 265-150-3 | None assigned | GHS02, Flam. Liq. 3; H226, GHS07, STOT SE 3; H336, GHS08, Asp. Tox. 1; H304, Aquatic Chronic 3; H412, EUH066 |
| Butane | 10 - 25 | 106-97-8 | 203-447-8 | None assigned | GHS02, Flam. Gas 1; H220, GHS04, Press. Gas: Liquefied gas; H280 |
| Isobutane | 10 - 25 | 75-28-5 | 200-857-2 | None assigned | GHS02, Flam. Gas 1; H220, GHS04, Press. Gas: Liquefied gas; H280 |
| Propane | 5 - 10 | 74-98-6 | 200-827-9 | None assigned | GHS02, Flam. Gas 1; H220, GHS04, Press. Gas: Liquefied gas; H280 |
| Molybdenum Disulphide | <1% | 1317-33-5 | 215-263-9 | None assigned | Not classified |

3.2 Additional Information

For full text of H/P phrases see section 16.



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4. SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin Contact

Wash affected skin with soap and water.

Eye Contact

Hold eye open and rinse slowly and gently with water for 15-20 minutes. If symptoms persist, obtain medical attention.

Ingestion

Unlikely route of exposure.

4.2 Most important symptoms and effects, both acute and delayed

Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

4.3 Indication of any immediate medical attention and special treatment needed

Unlikely to be required but if necessary treat symptomatically.

5. SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Suitable Extinguishing Media

Extinguish preferably with dry chemical, sand or carbon dioxide.

Unsuitable Extinguishing Media

Water jet spray.

5.2 Special hazards arising from the substance or mixture

Heating may cause pressure rise with risk of bursting.

5.3 Advice for fire-fighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. If it is safe to do so, containers should be removed from fire area because they are likely to rupture under fire conditions. Keep fire exposed containers cool by spraying with water.

6. SECTION 6: ACCIDENTAL RELEASE MEASURES

The product is an aerosol. It is unlikely to present spillage or leakage hazard. In case of rupture, released content should be contained as any other solvent spill.

6.1 Personal precautions, protective equipment and emergency procedures

Eliminate sources of ignition. Ensure adequate ventilation. Stop leak if safe to do so. Avoid breathing vapours. Wear protective gloves.

6.2 Environmental precautions

Do not allow to enter drains, sewers or watercourses. Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

6.3 Methods and material for containment and cleaning up

Place leaking cans in a bucket or pail to minimise product contamination of surfaces. Collect spillage. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Transfer to a container for disposal. Do NOT wash away into sewer. Containers must not be punctured or destroyed by burning, even when empty.

6.4 Reference to other sections

See Also Section 8, 13.



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7. SECTION 7: HANDLING AND STORAGE





- 7.1 Precautions for safe handling** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from: Electrostatic charge. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Do not let the can touch battery terminals, electrical connectors or any source of electricity. Use product in a well-ventilated area only. Ensure adequate ventilation. Avoid breathing vapours. Avoid prolonged skin contact. Wear protective gloves.
- 7.2 Conditions for safe storage, including any incompatibilities** Protect from sunlight. Store in a well-ventilated place. Industrial product for professional use. Locked storage does not apply to this product. Do not expose to temperatures exceeding 50°C/ 122°F. Stable under normal conditions. None anticipated.
- Storage Temperature
Storage Life
Incompatible materials
- 7.3 Specific end use(s)** Lubricant/ Anti-Rust Fluid/ Penetrant.

8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters**
8.1.1 Occupational Exposure Limits

| SUBSTANCE | CAS No. | LTEL (8 hr TWA ppm) | LTEL (8 hr TWA mg/m ³) | STEL (ppm) | STEL (mg/m ³) | Note |
|-----------|----------|---------------------|------------------------------------|------------|---------------------------|------|
| Butane | 106-97-8 | 600 | 1450 | 750 | 1810 | WEL |

WEL: Workplace Exposure Limit (UK HSE EH40)

- 8.1.2 Biological limit value** Not established.
- 8.1.3 PNECs and DNELs** Not established.
- 8.2 Exposure controls**
- 8.2.1 Appropriate engineering controls** Provide adequate ventilation.
- 8.2.2 Personal protection equipment** Not normally required, but eye protection advised as good practice for Industrial users. Take care to always spray away from your face.
- Eye/face protection  Not normally required.
- Skin protection (Hand protection/Other)  Not normally required. Wear suitable gloves if prolonged skin contact is likely.
- Respiratory protection  In case of insufficient ventilation, wear suitable respiratory equipment. A suitable mask with filter type A (EN14387 or EN405) may be appropriate.
- Thermal hazards  Not applicable.
- 8.2.3 Environmental Exposure Controls** Avoid release to the environment.



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9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--|---|
| 9.1 Information on basic physical and chemical properties | |
| Appearance | Aerosol. |
| Colour | Light grey. |
| Odour | Characteristic. |
| Odour Threshold | Not available. |
| pH | Not applicable. |
| Melting Point/Freezing Point | Not available. |
| Initial boiling point and boiling range | -11°C |
| Flash point | -60°C |
| Evaporation rate | Not applicable. |
| Flammability (solid, gas) | Aerosol 1; Extremely flammable aerosol. |
| Upper/lower flammability or explosive limits | 0.6 – 8.5 Vol-% |
| Vapour pressure | 3000hPa @ 20°C |
| Vapour density | Not available. |
| Relative density | Not available. |
| Solubility(ies) | Immiscible. |
| Partition coefficient: n-octanol/water | Not available. |
| Auto-ignition temperature | The product is not self-igniting. |
| Ignition temperature | 240°C |
| Decomposition Temperature | Not available. |
| Viscosity | Not available. |
| Explosive properties | Pressurised container: May burst if heated. |
| Oxidising properties | Not oxidising. |
| 9.2 Other information | None. |

10. SECTION 10: STABILITY AND REACTIVITY

| | |
|--|--|
| 10.1 Reactivity | Stable under normal conditions. |
| 10.2 Chemical stability | Stable under normal conditions. |
| 10.3 Possibility of hazardous reactions | Reacts violently with - Strong oxidising agents. |
| 10.4 Conditions to avoid | Heat and direct sunlight. Do not mix with other chemicals. |
| 10.5 Incompatible materials | Oxidizing agent, Reducing agent. |
| 10.6 Hazardous Decomposition Product(s) | This product may give rise to hazardous fumes in a fire. |

11. SECTION 11: TOXICOLOGICAL INFORMATION

| | |
|--|---|
| 11.1 Information on toxicological effects | |
| 11.1.1 Mixtures | |
| Acute toxicity | |
| Inhalation | STOT SE 3; May cause drowsiness or dizziness. |
| Irritation | Repeated exposure may cause skin dryness or cracking. |
| Corrosivity | Not classified. |
| Sensitisation | It is not a skin sensitiser. |
| Repeated dose toxicity | None anticipated. |
| Carcinogenicity | No evidence of carcinogenicity. No components are listed as a carcinogens or suspected carcinogens. |
| Mutagenicity | There is no evidence of mutagenic potential. |
| Toxicity for reproduction | None anticipated. |
| 11.2 Other information | None. |



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12. SECTION 12: ECOLOGICAL INFORMATION

| | | |
|------|---|---|
| 12.1 | Toxicity | Aquatic Chronic 3; Harmful to aquatic life with long lasting effects. |
| 12.2 | Persistence and degradability | The product is readily biodegradable in soil. |
| 12.3 | Bioaccumulative potential | No information available. |
| 12.4 | Mobility in soil | Immiscible with water. The product is predicted to have low mobility in soil. |
| 12.5 | Results of PBT and vPvB assessment | Not classified as PBT or vPvB. |
| 12.6 | Other adverse effects | None. |

13. SECTION 13: DISPOSAL CONSIDERATIONS

| | | |
|------|--------------------------------|--|
| 13.1 | Waste treatment methods | Recycle only completely emptied packaging. Containers must not be punctured or destroyed by burning, even when empty. Non-emptied aerosol: Dispose of wastes in an approved waste disposal facility. |
| 13.2 | Additional Information | Disposal should be in accordance with local, state or national legislation. Do not allow into any sewer on the ground, or into any body of water. |

14. SECTION 14: TRANSPORT INFORMATION

| | | |
|------|--|---|
| 14.1 | UN number | UN 1950 |
| 14.2 | UN proper shipping name | Limited quantity provisions and exceptions apply to aerosol products in transit. AEROSOLS. AEROSOLS, FLAMMABLE. |
| | ADR/RID/ADN/IMDG | |
| | ICAO/IATA | |
| 14.3 | Transport hazard class(es) | |
| | ADR/RID/ADN | 2 |
| | IMDG/ICAO/IATA | 2.1 |
| 14.4 | Packing Group | None. |
| 14.5 | Environmental hazards | Not classified as a Marine Pollutant. |
| 14.6 | Special precautions for user | None. |
| 14.7 | Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| 14.8 | Additional Information | |
| | IMDG Code | EmS: F-D, S-U |
| | Tunnel Restriction Code | D |

15. SECTION 15: REGULATORY INFORMATION

| | | |
|--------|---|-------------------------------|
| 15.1 | Safety, health and environmental regulations/legislation specific for the substance or mixture | |
| 15.1.1 | EU regulations | |
| | Authorisations and/or restrictions on use | |
| | Candidate List of Substances of Very High Concern for Authorisation | All chemicals are not listed. |
| | REACH: ANNEX XIV LIST OF SUBSTANCES SUBJECT TO AUTHORISATION | All chemicals are not listed. |



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REACH: ANNEX XVII RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES Community Rolling Action Plan (CoRAP); Draft 20/03/2012

All chemicals are not listed.

All chemicals are not listed.

15.1.2 National regulations

None known.

15.2 Chemical Safety Assessment

Not available.

16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

List contains all hazards, precautions and hazard pictograms may/may not be applicable to this product.

LEGEND

| | |
|-------------------|---|
| LTEL | Long Term Exposure Limit |
| STEL | Short Term Exposure Limit |
| DNEL | Derived No Effect Level |
| PNEC | Predicted No Effect Concentration |
| PBT | Persistent, Bioaccumulative and Toxic |
| vPvB | very Persistent and very Bioaccumulative |
| Aerosol 1 | Aerosol Category 1 |
| Asp. Tox. 1 | Aspiration hazard Category 1 |
| Flam. Gas 1 | Flammable gas Category 1 |
| Flam. Liq. 3 | Flammable Liquid Category 3 |
| STOT SE 3 | Specific target organ toxicity — single exposure Category 3 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment Category 3 |
| Press. Gas | Gases under pressure |

Hazard statement(s) and Precautionary statement(s)

| | |
|-----------|--|
| H220 | Extremely flammable gas. |
| H226 | Flammable liquid and vapour. |
| H280 | Contains gas under pressure; may explode if heated. |
| H304 | May be fatal if swallowed and enters airways. |
| H336 | May cause drowsiness or dizziness. |
| H412 | Harmful to aquatic life with long lasting effects. |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |
| P273 | Avoid release to the environment. |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P312 | Call a POISON CENTER or doctor/physician if you feel unwell. |

Hazard pictogram(s) and Hazard Symbol

GHS02



GHS04



GHS07



GHS08





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Disclaimers

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Annex to the extended Safety Data Sheet (eSDS)

No information available.