

PENETRATING OIL SPRAY

MULTIPURPOSE LUBRICANT

PRODUCT DATA SHEET & MSDS



DESCRIPTION

Penetrating Oil Spray is a truly multipurpose lubricant in a convenient aerosol can. Specifically formulated to have superior penetrating and releasing properties for all seized nuts and bolts, studs, locks, hinges and stuck components. It is the ideal all-in-one oil for use in dozens of applications in the home, garage and workshop.

FEATURES

- Releases sticky mechanisms
- General purpose lubricant
- Cleans metal surfaces
- Controls moisture effectively
- Protects against rust and corrosion

APPLICATIONS

Penetrating Oil Spray is a versatile oil formulated to release stubborn nuts, bolts and a wide variety of threaded fittings. Recommended for use as a general purpose lubricant, rust inhibitor and metal protector. Particularly suitable for those for hard to reach problem areas.

TYPICAL PROPERTIES

PROPERTY	TYPICAL
Appearance	Clear liquid
Odour	Solvent
Viscosity at 40°C	31 mm ² /s
Density	0.94 kg/l
Boiling Point	40 °C
Pour Point	<-20 °C

The above figures are typical values and do not constitute a specification

DIRECTIONS

Shake well before use. Press nozzle firmly down, spray directly onto the surface to be treated, do not wipe off. **CAUTION: Penetrating Oil Spray is flammable, do not puncture the container or use the product near open flames.**

All reasonable care has been taken to ensure that the information contained in this Product Data Sheet is accurate at the date of issue. It should be noted, however, that the information may be affected by changes, subsequent to the date of issue, in the blend formulation or the requirements of any third party specification relating to this product or the methods of application. Final determination of suitability of any material is the sole responsibility of the user.

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1. PRODUCT IDENTIFICATION

Product Name : PENETRATING OIL SPRAY.
Product Use : Penetrating oil and general purpose lubricant.
Manufacturer : Blue Chip Lubricants (Pty) (Ltd), P O Box 940, Northriding, 2162.
Telephone : +27 11 462 1829
Email : info@bcl.co.za

2. COMPOSITION

Chemical Composition : Highly refined mineral oil, methylene chloride, functional additives and butane.
Hazardous Components : Methylene chloride and butane.

3. HAZARDS IDENTIFICATION

CLP Hazard Classifications : Flammable Aerosol Category 1 – H222.
Aquatic Chronic Category 2 – H411
DPD Hazard Classifications : Flammable – R12
Carcinogen Category 3 – R40
Hazardous to the Environment – R51/53

Label Elements :



4. FIRST AID MEASURES

Eye Contact : Flush eyes thoroughly with water. Obtain medical advice if any irritation occurs.
Skin Contact : Wash skin thoroughly with soap and water as soon as reasonably practicable. Remove heavily contaminated clothing and wash underlying skin thoroughly. If irritation persists obtain medical attention.
Ingestion : Clean mouth with water and drink plenty of water. If large quantities of this product are ingested obtain medical advice. DO NOT induce vomiting unless directed so by medical personnel. Never give anything by mouth to an unconscious person.
Inhalation : Avoid inhalation of mists, fumes or vapour. This causes irritation to the nose, throat, and coughing. Remove person from exposure. If symptoms persist obtain medical advice.

5. FIRE FIGHTING MEASURES

Specific Hazards : Flammable aerosol. Combustible liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed. Runoff to sewer may create fire or explosion hazard. This material is toxic to aquatic life with long lasting effects. Water contaminated with large quantities of this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Extinguishing media : In case of fire water sprays, fog or standard foam is recommended. DO NOT USE water jets. Water may be used to cool nearby heat exposed areas/objects. Avoid spraying directly into open storage containers because of the danger of boil-over.
Special hazards : Fires in confined areas should be dealt with by trained personnel wearing approved breathing apparatus. Toxic fumes may be evolved on burning or exposure to heat.
Protective clothing : Use suitable protective breathing apparatus.
Decomposition products : Carbon dioxide, carbon monoxide, halogenated compounds, carbonyl halides.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Any spillages should be regarded as a potential fire risk. In the event of spillage, remove all sources of ignition and ensure good ventilation. Spilled material may make surface slippery.

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Clean up spilled material immediately. It is advised that stocks of suitable absorbent material should be held in quantities sufficient to deal with any spillage which may be reasonably anticipated.

- Environmental precautions : Do not wash product into drainage systems, protect drains from potential spills to minimize contamination. In case of spillage on water, prevent the spread of product by the use of suitable barrier equipment. Recover from the surface. Protect environmentally sensitive areas and water supplies. Minimize contact of spilled material with soils to prevent runoff to surface waterways.
- Small Spills : For small spills clean up the material immediately. Contain and recover spilled material using sand or other suitable inert absorbent material.
- Large Spills : Recovery of large spills should be affected by specialist personnel.

7. HANDLING AND STORAGE

- Handling precautions : Avoid contact with skin and observe good personal hygiene. Avoid contact with eyes. If splashing is likely to occur wear a full-face visor or chemical goggles as appropriate. Avoid frequent or prolonged skin contact with fresh or used product. Wash hands thoroughly after contact. Use disposable cloths and discard when soiled. Do not put soiled cloths in pockets. Take necessary precautions against accidental spillage into soil and water. Good working practices, high standards of personal hygiene and cleanliness must be maintained at all times.
- Storage precautions : Store under cover away from heat and sources of ignition.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Exposure Limits : Hydrocarbons, C15-C20, n-alkanes, iso-alkanes, cyclics, aromatics - TWA: 5 mg/m³
- Engineering controls : The control measures appropriate for a particular location depend on how this material is used and on the extent of exposure. If vapour, mists or fumes are generated, their concentration in the workplace air should be controlled to the lowest reasonably practicable level.

Personal Protective Equipment

- Respiratory system : Respiratory protection is unnecessary, provided the concentration of vapour, mist and fumes is adequately controlled. The use of respiratory equipment must be strictly in accordance with any statutory requirements governing its selection and use.
- Hands : Use chemical resistant, impervious gloves.
- Eyes : Safety glasses with side shields. Goggles with a face shield may be necessary depending on conditions of use.
- Skin : Disposable outer garments where there is the potential for heavy contact with the material.

9. TYPICAL PROPERTIES

PROPERTY	TYPICAL
Appearance	Clear liquid
Odour	Solvent
Viscosity at 40°C	31 mm ² /s
Density	0.94 kg/l
Initial Boiling Point	40 °C
Melting/Freezing Point	<-20 °C
pH	7 - 8
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Explosive limits	Not available.
Vapor pressure	0.01 kPa [room temperature]
Solubility	Insoluble in water
Auto-ignition temperature	>250 °C
Decomposition temperature	>200 °C
Oxidizing properties	Not applicable.

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10. STABILITY AND REACTIVITY

- Conditions to avoid : Sources of ignition. Thermal decomposition products will vary with conditions. Incomplete combustion will generate smoke, carbon dioxide and hazardous gasses, including carbon monoxide, halogenated compounds and carbonyl halides.
- Incompatible Materials : Avoid contact with strong oxidizing agents.
- Stability : Stable at ambient temperatures. Hazardous polymerization reactions will not occur.

11. TOXICOLOGICAL INFORMATION

- Skin contact : Unlikely to cause harm to the skin on brief or occasional contact. Suspected of possibly causing dermatitis or cancer with prolonged contact.
- Eye contact : Unlikely to cause more than transient stinging or redness if accidental eye contact occurs.
- Ingestion : Unlikely to cause harm if accidentally swallowed in small doses, though larger quantities may cause nausea and diarrhea.
- Inhalation : Under normal conditions this product will be unlikely to present an inhalation hazard. May cause irritation to nose and throat due to vapour, mists or fumes. May be harmful by inhalation if exposure to vapour, mists or fumes resulting from thermal decomposition products occur.

12. ECOLOGICAL INFORMATION

- Aquatic toxicity : Spills may form a film on water surfaces causing physical damage to organisms; oxygen transfer could also be impaired.
- Biodegradability : This product is inherently biodegradable.
- Bio-accumulation : There is no evidence to suggest bio-accumulation will occur.
- Mobility : Spillages may penetrate the soil causing ground and water contamination.

13. DISPOSAL CONSIDERATIONS

- Disposal Methods : Hazardous chemical waste. Empty containers may retain some product residues. Do not puncture or incinerate container. Waste must be disposed to a landfill in terms of the Department of Water Affairs and Forestry's minimum requirements for waste disposal to landfill, and the minimum requirements for the handling, classification and disposal of hazardous waste. Where possible, arrange for the product to be recycled. If possible dispose via an authorized person / licensed waste disposal conductor in accordance with local regulations.

14. TRANSPORT INFORMATION

- Road Transport : Not classified as hazardous for transport
- Air Transport : Restricted

15. REGULATORY INFORMATION

- Hazard classification : Not classified

DISCLAIMER

The information provided in this data sheet and the health, safety and environmental information it contains, is correct to the best of our knowledge at the date of issue. However, neither Blue Chip Lubricants (Pty) Ltd nor any of its affiliates, accept any liability whatsoever for the accuracy or completeness of the information contained herein. Since this information may be applied under conditions beyond our control, we do not accept any responsibility for the results of its use. Final determination of suitability of any material is the sole responsibility of the user.