

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: SOLEX

Not classified as hazardous according to the criteria of NOHSC.

SUPPLIER:
ISSUE DATE:
IDENTIFICATION

PROLUBE
 4th November, 2016

USE: WATER SOLUBLE OIL FOR METAL WORKING
 UN No.: Not assigned
 Main Class: Not assigned
 Subsidiary Risk: Not assigned
 Poison Schedules: Not allocated
 HazChem Code: Not assigned
 CAS No.: Not relevant

PRODUCT PROPERTIES:

Appearance and Odour: Clear and bright oil liquid,
 Mineral oil odour.
 Chemical Reactivity: Stable,
 Reacts with oxidising agents.
 Solubility in Water: Forms stable emulsions.

PROPERTY	VALUE	UOM	TEMPERATURE
Specific gravity	0.88		15
Melting point	Not available		
Vapour pressure	Expect <0.0005	kPa	20
IBP	Expected >280	oC	
FBP	Not available		
Evaporation rate	Not available		
Vapour density (air = 1)	>1		20

FIRE / EXPLOSION HAZARD

Flash point: Typically 220oC
 Auto ignition: Typically >320oC
 % Volatiles: Not available
 LEL: Typically 1% v/v
 UEL: Typically 10% v/v

PRODUCT INGREDIENTS:

Includes Biocide – see separate MSDS sheet.

INGREDIENT	PROPORTION
Solvent refined mineral oil (Complex mixture of Paraffinic, Napthenic and Aromatic hydrocarbons)	High >60% m/m
Additives (Sulphur, Nitrogen, Boron and Sodium) – biocide	Low 10 – 20% m/m

PRODUCT NAME: _____

SOLEX

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PRODUCT PROPERTIES: (continued)

HEALTH ASPECTS

CONDITION	HEALTH EFFECTS	FIRST AID
SWALLOWED	Slightly toxic, may cause gastric irritation.	If swallowed DO NOT induce vomiting, seek medical advice.
EYE CONTACT	May cause slight to moderate eye irritation.	Flood eyes with plenty of water for 20 minutes. If irritation occurs, seek medical advice.
SKIN CONTACT	Mildly irritating to skin. Prolonged and repeated contact may cause dermatitis due to defatting effect.	Remove contaminated clothing and wash skin thoroughly with soap and water.
INHALED	Inhalation of the vapours (generated at elevated temperatures) or mists can cause irritation to the nose and throat.	Remove affected person from contaminated area and seek medical advice. If not breathing apply artificial respiration and, seek urgent medical advice.

PRECAUTIONS FOR USE

EXPOSURE STANDARDS:

WORKSAFE EXPOSURE STANDARD time weighted average (TWA) 5mg/m³ (oil mist).
short term exposure limit (STEL) 10mg/m³ (oil mist).

ENGINEERING CONTROLS:

Special ventilation is not normally required due to the low volatility of the product at normal temperatures. However, in the operation of certain equipment or at elevated temperatures, mists or vapours may be generated and exhaust ventilation should be provided to maintain airborne concentration levels below the exposure standard.

PERSONAL PROTECTION:

Avoid contact with the skin and eyes, and avoid breathing vapours or mists. When exposure is likely, personal protective equipment in a combination appropriate to the degree and nature of exposure should be selected from the following list:

1. Eye protection
2. PVC gloves
3. PVC apron and sleeves, or full PVC covering
4. PVC or rubber boots

Where the concentration of vapour or mist is expected to approach the exposure limit, the following additional equipment is recommended:

1. Short elevated exposures, eg spillage: Goggle and correct respiratory protection should be worn.
2. Prolonged elevated exposures: Full-face air supplied or self-contained breathing apparatus should be worn.

For detailed advice on Personal Protective Equipment, refer to the following Australian Standards:

1. HB9 (Handbook 9) Manual of industrial personal protection.
2. AS 1337 Eye protectors for industrial applications.
3. AS 1715 Selection, use and maintenance of respiratory protective devices.
4. AS 1716 Respiratory protective devices.

PRODUCT NAME: **SOLEX**

CONTAMINATION:

If contamination occurs, change clothing and discard internally contaminated gloves and footwear. Launder contaminated clothing before reuse. Maintain good personal hygiene. Eye wash fountains and safety showers should be available for emergency use.

FLAMMABILITY:

Combustible liquid, will not burn unless preheated.

Refer to AS 1940

Storage and handling of flammables and combustible liquids,

and

AS 2865

Safe working in a confined space

SAFE HANDLING INFORMATION

STORAGE AND TRANSPORT:

Classified as a class 3.4 combustible liquid for storage and handling purposes. Store in a well ventilated place away from ignition sources, oxidising agents, foodstuffs and clothing. Keep containers closed when not in use.

SPILLS AND DISPOSAL:

Extinguish or remove all sources of ignition and stop leak if safe to do so. Contain the spill with sand or earth and take up with a vacuum truck or absorb with absorbent material, sand or earth. Place used absorbent in suitable sealed containers and follow State or Local Authority Regulations and Guidelines for disposal of the waste. Clean area with detergent and water. Do not allow product to enter drains, sewers or watercourses. Inform the relevant authority if this does occur.

FIRE / EXPLOSION HAZARD:

Combustible combustion products include oxides of carbon. Keep storage tanks, pipelines, fire exposed surfaces etc, cool with water spray. Shut off any leak if safe to do so and remove sources of re-ignition. Use foam, CO₂ or powder to extinguish fire.

OTHER INFORMATION

Long-term animal experiments have shown that any health risks are associated with the level of aromatic and polycyclic constituents in the product. These constituents are removed during the manufacturing process to a level at which no health risks are expected as a result of normal handling.

USED OILS:

As supplied, this product does not show any carcinogenic effects, however, during use, the oil may acquire impurities which present risks to health that did not exist in the unused oil. Since the nature and level of impurities varies according to conditions of use, it is most sensible to assume that all used oil may cause skin cancer and to minimise contact with all used oils as far as possible. Used oil should not be allowed to contaminate soil or water.

Follow prevailing regulations for recycling or disposal of used oils.