

<b>MOLYTEC AUSTRALIA, Unit 1, 9 Steel St, Capalaba, QLD Australia, 4157</b>	
Tel. for Information: (07) 3245 2355 Last Updated: February 2011	Fax for Information: (07) 3245 2499 Page 1 of 3
<b>Material Safety Data Sheet</b>	<b>MOLYSLIP Metal Working Fluid</b>

**NOT Classified as hazardous according to criteria of NOHSC.**

**1. Chemical Product / Company Identification**

Product Name: **MWF**  
Product Type: Metal Working Fluid  
Product Size: 350ml P/No 41003, 5Ltr P/No 41050  
Product Use: Lubricant for metal removal operation.

**2.\* HAZARDS IDENTIFICATION**

Eye contact: Irritant to eyes.  
Skin contact: Slight skin irritant. Prolonged or repeated contact can cause dermatitis.  
Inhalation: High levels of vapour/mist may cause dizziness. Can cause irritation of respiratory tract.

**3.\* COMPOSITION/INFORMATION OF INGREDIENTS**

Ingredient Name	Cas No.	Health (Class)	Risk (R.No)	Contents %
Solvent Refined Mineral Oil				None
Chlorinated Paraffin				
Non-Hazardous ingredients including Distilled Pure Oil				

**4. FIRST AID MEASURES**

Eye contact: Contact lenses should be removed. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart, and seek medical advice.  
Skin contact: Remove contaminated clothing. Wash skin thoroughly with soap and water or use a proprietary skin cleaner. DO NOT use solvents or thinners. If in doubt, seek medical advice.  
Inhalation: Remove to fresh air, keep the patient warm and at rest. If breathing is irregular or has stopped, administer artificial respiration. Give nothing by mouth. If unconscious, place in the recovery position and seek medical advice.  
Ingestion: If accidentally swallowed, obtain immediate medical attention. Keep at rest, DO NOT induce vomiting.

**5. FIRE FIGHTING MEASURES**

Extinguish media: Alcohol resistant foam; CO<sub>2</sub>; powder; water spray/mist.  
Do not use: Water jet.  
Special fire fighting procedures: Fire exposed containers should be sprayed with water to lessen risk of explosion.  
Unusual fire and explosion hazards: Thermal degradation will cause evolution of Hydrogen Chloride with small amount of phosgene and chlorine. All these gases are toxic. Phosgene is extremely toxic.

**6. ACCIDENTAL RELEASE MEASURE**

Procedures for leaks or spillages: Exclude non-essential personnel. Avoid breathing vapours. Refer to protective measures listed in Sections 7 & 8. Contain and collect spillages with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth, and place in a suitable container for disposal in accordance with the waste regulations (see Section 13). Do not allow to enter drains or water courses. Clean preferably with a detergent; avoid the use of solvents if the product enters drains or sewers, the local water company should be contacted immediately; in the case of contamination of streams, rivers or lakes, the National Rivers Authority.

**7. HANDLING AND STORAGE**

Handling: Vapours are heavier than air and may spread along floors. They may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapours in the air and avoid vapours concentration higher than the occupational exposure limits. Use only in areas from which all sources of heat, sparks and open flame have been excluded. Avoid skin and eye contact. Smoking, eating and drinking should be prohibited in areas of use and storage.  
Storage: Store below 50<sup>o</sup>C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Observe the label precautions. Store separately from strong oxidizing agents and strongly alkaline and strongly acidic materials.

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### 8.\* EXPOSURE CONTROL/PERSONAL PROTECTION

Ingredient Name	OES/MEL	8hr TWA15min STEL
Mineral Oil (mist)	OES	5Mg/M3 10Mg/M3
Engineering measures:	Provide adequate ventilation to ensure the airborne concentration of substances to which an OES/MEL has been assigned is below that OES/MEL (Occupational Exposure Standard/Maximum Exposure Limit).	
Respiratory protection:	Air-fed respiratory equipment should be worn when this product is sprayed if the exposure of the sprayer or other people nearby cannot be controlled below the occupational exposure limit and engineering controls and measures cannot reasonably be improved.	
Hand protection:	When skin exposure may occur, advice may be sought from the glove suppliers on appropriate types. Barrier creams may help to protect exposed areas of the skin but are not substitutes for full physical protection. They should not be applied once exposure has occurred.	
Eye protection:	Eye protection designed to protect against liquid splashes should be worn.	
Skin protection:	Cotton or cotton/synthetic overalls are normally suitable. Grossly contaminated clothing should be removed and the skin washed with soap and water or a proprietary skin cleaner.	

### 9.\* PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Appearance:	Green
Odour:	Pine
Specific gravity at 20 °C:	1.004
pH:	N/A
Boiling point/boiling range:	39°C
Melting point/melting range:	<0 °C
Flash point:	250 °C
Flammability:	LEL 15.5 (% vol. in air @ 25 °C) UEL 66.4
Explosive properties:	None
Oxidizing properties:	None
Relative density:	N/A
Solubility- Water:	Insoluble
Solubility- Solvent:	Soluble in chlorinated hydrocarbons
Other data:	None

### 10. STABILITY AND REACTIVITY

Stability:	Stable
Conditions to Avoid:	Avoid naked flames, red-hot surfaces, and other high temp. sources that may induce thermal decomposition.
Incompatibility:	Strong acids/alkalis/oxidizing agents/reactive metals e.g. sodium, potassium, (Material Avoid) calcium, magnesium, zinc, barium, lithium, molten or powdered aluminium.
Hazardous Decomposition products:	Hydrogen chloride, Phosgene, Chlorine.

### 11.\* TOXICOLOGICAL INFORMATION

Ingredient:	LD50 (Animal/oral)
Mineral Oil:	16g/ Kg (Rat)
There is no data available on the product itself.	
Exposure to organic solvent vapours may result in adverse health effects on the renal and central nervous systems. Symptoms can include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Repeated or prolonged contact with the product may lead to the removal of natural fats from the skin resulting in non-allergic contact dermatitis and absorption through the skin. Splashes in the eyes may cause irritation and reversible local damage.	

### 12.\* ECOLOGICAL INFORMATION

There is no data available on the product itself.

The product should not be allowed to enter drains or water courses or be deposited where it can affect ground or surface waters. The Air Pollution Control requirements of regulations made under the Environmental Protection Act may apply to the use of this product. Aliphatic hydrocarbon solvent in this product has low bio-accumulation potential, is not acutely toxic to aquatic organisms and has good biodegradability.

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<b>Material Safety Data Sheet</b>	<b>MOLYSLIP Metal Working Fluid</b>

### 13. DISPOSAL RECOMMENDATIONS

Do not allow into drains or water courses or where ground or surface waters may be affected. Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with regulations made under the Control of Pollution Act. Using the information provided in this data sheet, advice should be obtained from the Waste Regulation Authority whether the special waste regulations apply.

### 14. TRANSPORT INFORMATION

CCCN: 3403 99 90  
UN No.:  
IMDG:  
Class:

### 15.\* REGULATORY INFORMATION

Designation of product: Lubricant  
Label for supply:  
Risk Phrases:  
Safety Phrases  
2: Keep out of reach of children  
24/25: Avoid contact with skin and eyes  
Regulatory references: The Chemicals (Hazard Information and Packaging) Regulations 1994

### 16. OTHER INFORMATION

The data and advice given apply when the product is sold for the stated application or applications. The product is not sold as suitable for any other application. Use of the product for applications other than as stated in this sheet may give rise to risks not mentioned in this sheet. You should not use the product other than for the stated application or applications without seeking advice from us.

If you have purchased the product for supply to a third party for use at work, it is your duty to take all necessary steps to secure that any person handling or using the product is provided with the information in this sheet.

If you are an employer, it is your duty to tell your employees and others who may be affected by any hazards described in this sheet and of any precautions which should be taken.

Approved Codes of Practice: Waste Management. The Duty of Care.

Guidance Notes: Occupational skin diseases: health & safety precautions (EH26)  
Occupational exposure limits (EH40)  
The carcinogenicity of mineral oils (EH58)  
Skin cancer caused by oil [MS (B) 5]  
Save your skin! –Occupational Contact Dermatitis [MS(B)6]  
Dermatitis- cautionary notice [SHW 367]  
Effects of mineral oil on the skin [SHW 397]

The above publications are available from HMSO and HSE sources.

### POLICE AND FIRE BRIGADE:

**DIAL 000**

For further safety information contact Denis Brown at MOLYTEC AUSTRALIA on:

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**MWF**