

<b>MOLYTEC AUSTRALIA, Unit 1, 9 Steel St, Capalaba, QLD Australia, 4157</b>	
Tel. for Information: (07) 3245 2355 Last Updated: November 2004	Fax for Information: (07) 3245 2499 Page 1 of 4
<b>Material Safety Data Sheet</b>	<b>MOLYTEC SUPA SQUIRT Aerosol</b>

**Classified as hazardous according to criteria of NOHSC and as Dangerous Goods according to the Australian Dangerous Goods Code.**

**1. Chemical Product / Company Identification**

Product Name: **Molytec Supa Squirt**  
Product Type: Water Dispersing Fluid  
Product Size: 400g Aerosol Part No. M830  
Proper Shipping Name: Aerosol UN No.: 1950 DG Class: 2.1  
Sub Risk: Nil Hazchem Code: 3[Y]E Poisons Schedule: S5  
Product Use: Water dispersant, lubricant and lubricating fluid.  
Company Details: Molytec Australia P/L 1/9 Steel St Capalaba QLD Australia 4157  
Phone: 07 3245 2355 Fax: 07 3245 2499

**2. Hazards Identification**

HAZARDOUS SUBSTANCE. DANGEROUS GOODS.

**Symbol(s):** Xn Harmful  
N Dangerous for the environment

**R-phrase(s)**  
**R10** Flammable  
**R40** Possible risk of irreversible effects  
**R65** Harmful: may cause lung damage if swallowed  
**R66** Repeated exposure may cause skin dryness or cracking  
**R67** Vapours may cause drowsiness and dizziness  
**R51/53** Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

**S-phrase(s)**  
**S23** Do not breathe vapour  
**S24** Avoid contact with skin  
**S61** Avoid release to the environment. Refer to special instructions/MSDS  
**S62** If swallowed, do not induce vomiting: seek medical advice immediately and show container label.  
**S2** Keep out of the reach of children

**3. Composition and Information on Chemical Ingredients**

Chemical Entity	CAS No.	Proportion %
White Spirits	64742-82-1	30-60
Tetrachloroethylene	127-18-4	10-<30
Propane	74-98-6	10-<30
Butane	106-97-8	10-<30
Other ingredients determined not to be hazardous		

**4. First Aid Measures**

**Swallowed** DO NOT INDUCE VOMITING. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

**Eye** Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 20 minutes, by the clock, holding the eyelid(s) open. Take care not to rinse the contaminated water into the non-affected eye. Obtain medical attention immediately.

**Skin** Remove contaminated clothing. Flush exposed area with water and follow by washing with soap if available.

**Inhaled** If symptoms are experienced, remove source of contamination or move victim to fresh air. Keep patient warm and at rest. Obtain medical attention immediately.

**Advice to Doctor** Causes central nervous system depression. Dermatitis may result from prolonged or repeated exposure. Potential for chemical pneumonitis. Consider: gastric lavage with protected airway, administration of activated charcoal.

**5. Fire Fighting Measures**

**Small Fire:** Use water spray, dry chemical or CO2

**Large Fire:** Use water spray and fog  
Fight fire from protected position or use unmanned hose holders or monitor nozzles  
If safe to do so, move undamaged containers from fire area  
Do not approach hot containers  
Cool containers with water before handling  
If impossible to extinguish fire, protect surroundings, withdraw from area and allow fire to burn.

**Extinguishing Media:** Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only. Do not discharge extinguishing waters into the aquatic environment.

**Unsuitable Media:** Do not use water in a jet.

**Protective Equipment For Fire Fighters:** Wear full protective clothing and self-contained breathing apparatus.

**Additional Advice:** Keep adjacent containers cool by spraying with water.

**Hazchem Code:** 2[Y]E – For fire fighting, use foam (alcohol resistant foam may be required). Risk of explosion. Breathing apparatus, fire fighting gear and chemically impervious protective gloves should be worn. Prevent spillage from entering drains or watercourses.

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**6. Accidental Release Measures**

Observe all relevant local and international regulations.

**Clean up Method:** Eliminate all ignition sources (no smoking, flares, sparks or flames) within at least 15m. Isolate area until gas has dispersed. All equipment used when handling the product must be earthed. Restrict access to area until completion of clean up. Ensure clean up is conducted by trained personnel only. Wear protective clothing including facemask, face shield, and gauntlets. Ventilate the area. Prevent material from entering sewers or confined spaces. Stop or reduce leak if safe to do so. Contain spill with earth, sand or inert absorbent material. Small spills of solution: soak up with absorbent material. Put material in suitable, covered, labelled containers. Flush area with water preventing runoff entering drains. Large spills: contact fire and emergency services for advice.

**Disposal:** Review federal, state and local government requirements prior to disposal

**Additional Advice:** See Section 13 for information on disposal. Notify authorities if any exposure to the general public or the environment occurs or is likely to occur. Vapour may form an explosive mixture with air.

**7. Safe Handling Information**

**General Precautions:** Avoid breathing of or contact with material. Only use in well ventilated areas. Wash thoroughly after handling. For guidance on selection of personal protective equipment see Section 8 of this Material safety Data Sheet. Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.

**Handling:** Avoid contact with skin, eyes and clothing. Extinguish any naked flames. Do not smoke. Remove ignition sources. Avoid sparks. The vapour is heavier than air, spreads along the ground and distant ignition is possible. Ventilate workplace in such a way that the Occupational Exposure Limit (OEL) is not exceeded. Do not empty into drains.

**Storage:** Store in original containers in approved flameproof area. DO NOT store in pits, depressions, basements or areas where vapours may be trapped. No smoking, naked lights, heat or ignition sources. Keep containers securely sealed. Contents under pressure. Store away from incompatible materials. Store in a cool, dry, well-ventilated area in an upright position out of direct sunlight. Avoid storage at temperatures higher than 40°C. Protect containers against physical damage and check regularly for leaks. **Maximum storage time:** 30 months

**Incompatible Materials:** Flammable gases shall not be loaded in the same vehicle or packed in the same freight container with:

- Class 1 Explosives
- Class 3 Flammable liquids (where both flammable liquids and gases are in bulk)
- Class 4.1 Flammable solids
- Class 4.2 Spontaneously combustible substances
- Class 4.3 Dangerous when wet substances
- Class 5.2 Organic peroxides
- Class 7 Radioactive substances

**8. Exposure Control and Personal Protection**

**Engineering Controls:** Use only in well-ventilated areas.

**Exposure Limits:** No exposure standards have been established for this material. Exposure standards recommended by Worksafe Australia for some ingredients are as follows:

	TWA (Time Weighted Average)		ppm
Propane	Mg/m3	ASPHYXIANT	
Butane			800ppm
White Spirits	790mg/m3		
Tetrachloroethylene	170mg/m3		25ppm

**Additional Information:** Adequate ventilation to control airborne concentrations below the exposure guidelines/limits.

**Respiratory Protection:** Where ventilation is not adequate, respiratory protection may be required. An approved organic vapour full face piece respirator with replaceable canister complying with AS/NZS 1716 and AS/NZS 1715 is recommended.

**Hand Protection:** Nitrile or neoprene gloves. For help in selecting suitable gloves consult AS 2161.

**Eye Protection:** Safety glasses or chemical goggles. Failure to do so may result in eye damage if an accident occurs. Consult AS 1336 & AS/NZ 1337 for information about eye protection.

**Protective Clothing:** Overalls or similar protective clothing. Consult AS 2919 for advice on clothes.

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### 9. Physical and Chemical Properties

<b>Appearance:</b>	Hazy light brown liquid
<b>Odour:</b>	Paraffinic
<b>pH:</b>	Not applicable
<b>Boiling Point:</b>	Typical 162-192°C / 324-378°F
<b>Melting/Freezing Point:</b>	Not applicable
<b>Flash Point:</b>	Typical 42°C/108°F (Abel) (liquid concentrate) -17°C (propane/butane blend propellant)
<b>Explosion/Flammability:</b>	0.7-6.5% (V)
<b>limits in air</b>	1.5% to 9.6% in air (v/v) (propane/butane blend propellant)
<b>Auto-ignition temp:</b>	296°C / 565°F (ASTM E-659) 245°C / 473°F (DIN 51794)
<b>Vapour Pressure:</b>	Typical 370 Pa at 20°C/68°F, Typical 110 Pa at 0°C/32°F, Typical 1800 Pa at 50°C/122°F. 400Kpa @ 25°C (propane/butane blend propellant)
<b>Specific Gravity:</b>	0.960 (liquid concentrate)
<b>Density:</b>	Typical 964 kg/m <sup>3</sup> at 15°C/59°F (ASTM D-4052)
<b>Water Solubility:</b>	Insoluble
<b>Solubility in other solvents:</b>	Aromatics Miscible. Aliphatics Miscible.
<b>Percentage Volatile:</b>	89% (EC/1999/13)
<b>Vapour density (air=1):</b>	1.5 to 2.0 (propellant vapour)

### 10. Stability and Reactivity

<b>Stability:</b>	Stable under normal conditions of use.
<b>Conditions to Avoid:</b>	Avoid heat, sparks, open flames and other ignition sources.
<b>Materials to Avoid:</b>	Strong oxidising agents.
<b>Hazardous</b>	Thermal decomposition is highly dependant on conditions. A complex mixture of airborne solids, liquids and gases, including carbon monoxide, carbon dioxide, chlorine, hydrogen chloride, phosgene and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.
<b>Decomposition Products:</b>	

### 11. Toxicological Information

<b>Basis for Assessment:</b>	Information given is based on ingredient testing, and/or similar products, and/or components.
<b>Acute Oral Toxicity:</b>	Low toxicity: LD50 >2.629 mg/kg, Rat (perchloroethylene) Aspiration into the lungs when swallowed /vomited may cause chemical pneumonitis, which can be fatal.
<b>Acute Dermal Toxicity:</b>	Low toxicity: LD50 >2000mg/kg, Rat
<b>Acute Inhalation Toxicity:</b>	Low toxicity: LC50 –34.200mg/kg, Rat High concentrations may cause central nervous system depression resulting in headaches, dizziness and nausea; continued inhalation may result in unconsciousness and/or death.
<b>Skin Irritation:</b>	May cause moderate skin irritation (but insufficient to classify). Prolonged/repeated contact may cause defatting of the skin which can lead to dermatitis. Rabbit = 500mg/24hrs Light (standard Draize test)
<b>Respiratory Irritation:</b>	Inhalation of vapours or mists may cause irritation to the respiratory system.
<b>Sensitisation:</b>	Not a skin sensitiser.
<b>Repeated Dose Toxicity:</b>	Auditory system: prolonged and repeated exposures to high concentrations have resulted in hearing loss in rats. Solvent abuse and noise interaction in the work environment may cause hearing loss. Central nervous system: Repeated exposure affects the nervous system. Kidney: caused kidney effects in male rats, which are not considered relevant to humans.
<b>Mutagenicity:</b>	Salmonella, slight positive in the rat embryo.
<b>Carcinogenicity:</b>	Limited evidence of carcinogenic effect. (Ethylbenzene)
<b>Reproductive and Developmental Toxicity:</b>	Causes foetotoxicity in animals at doses which are maternally toxic. Not expected to impair fertility.

### 12. Ecological Information

<b>Acute Toxicity</b>	
<b>Fish:</b>	Harmful: 10<LC/EC/IC50 <= 100mg/l
<b>Aquatic Invertebrates:</b>	Harmful: 10<LC/EC/IC50 <= 100mg/l
<b>Algae:</b>	Toxic: 10< LC/EC/IC50 <= 10mg/l
<b>Micro organisms:</b>	Expected to be harmful: 10< LC/EC/IC50 <= 10mg/l
<b>Mobility:</b>	Floats on water
<b>Persistence/degradability:</b>	Readily biodegradable (white spirits), Hardly biodegradable (tetrachloroethylene), Oxidises rapidly by photochemical reactions in air.
<b>Bioaccumulation:</b>	Has the potential to bioaccumulate. Accumulation magnification: less than 77.1/6 weeks (tetrachloroethylene)

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### 13. Disposal Considerations

**Material Disposal:** Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations.

**Container Disposal:** Empty contents thoroughly. After draining, vent in a safe place away from sparks and fire. Residues may cause an explosion hazard. Do not puncture, cut or weld uncleaned cans. Send empty cans to recycler.

**Local Legislation:** Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.

### 14. Transport Information

	<b>ADG</b>	<b>IMDG</b>	<b>IATA (Country variations may apply)</b>
<b>UN/identification No.:</b>	1950	2103	1950
<b>Proper Shipping Name:</b>	AEROSOLS	AEROSOLS	AEROSOLS
<b>Class/Division:</b>	2	3	2
<b>Packing Group:</b>	n/a	II	-
<b>Hazchem Code:</b>	2[Y]E	-	-
<b>Marine Pollutant:</b>	-	Yes	-

### 15. Regulatory Information

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

<b>SUSDP Schedule:</b>	6
<b>DSL:</b>	Not listed
<b>INV (CN):</b>	Not listed
<b>TSCA:</b>	Not listed
<b>EINECS:</b>	Not listed
<b>KECI (KR):</b>	Not listed

### 16. Other Information

**Additional Information:** Marked product contains 20ppm Mortrace MP marker.

Users should verify the currency of this data sheet if more than 5 years old. The information contained in this material safety data sheet is believed to be accurate on the date of issue and in accordance with the information available to us. Persons dealing with products referred to in this MSDS do so at their own risk. We accept no liability whatsoever for damage or injury however caused arising from use of this information or of suggestions contained herein.

**POLICE AND FIRE BRIGADE: DIAL 000**

For further safety information contact Denis Brown at MOLYTEC AUSTRALIA on:  
Tel: (07) 3245 2355 Fax: (07) 3245 2499  
P.O. Box 5357, Alexandra Hills, QLD, Australia, 4161

#### Disclaimer

The information contained within this MSDS applies only to the MOLYTEC product to which the sheet relates. The information provided is based on our best knowledge at the time of issue.

The information contained within this MSDS is believed to be accurate and is given in good faith. However no warranty is made, either express or implied, regarding its accuracy or any liability arising out of the use of the information herein or the products supplied.

When used in other preparations, formulations, or in mixtures, it is necessary to ascertain whether the classification of the hazards has changed. The attention of the user is drawn to the possibility of creating other hazards when the product is used for purposes other than that for which it was recommended. In such cases a reassessment may be necessary and should be made by the user.

This safety data sheet should only be used and reproduced in order that the necessary measures are taken relating to the protection of health and safety at work.

It is the responsibility of the handlers to pass on the totality of the information contained within this document to any subsequent person(s) who will come in to contact with, handle or use this product in any way.

They should check the adequacy of the information provided within this MSDS before passing it on to their customers / staff.

**END OF DOCUMENT**