

MOLYTEC AUSTRALIA, Unit 1, 9 Steel St, Capalaba, QLD Australia, 4157	
Tel. for Information: (07) 3245 2355 Last Updated: February 2011	Fax for Information: (07) 3245 2499 Page 1 of 3
Material Safety Data Sheet	MOLYTEC Liquid Spanner Aerosol

Classified as hazardous according to criteria of NOHSC.

1. Chemical Product / Company Identification

Product Name: **Molytec Liquid Spanner**
Product Type: Releasing Fluid
Product Size: 400g Aerosol Part No. M890
Proper Shipping Name: Aerosol UN No.: 1950 DG Class: 2.1
Sub Risk: Nil Hazchem Code: 3WE Poisons Schedule: n/a
Product Use: Penetrating and releasing fluid applied by aerosol spray.
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

Hazard Category	Xi	Irritant
	F	Flammable
Risk Phases	R10	Flammable
	R36	Irritating to eyes
	R37	Irritating to respiratory system
	R38	Irritating to skin
	R65	Harmful: may cause lung damage if swallowed

3. Composition and Information on Chemical Ingredients

Chemical Entity	CAS No.	Proportion %
Turpentine substitute	64742-88-7	30-60
Propane	74-98-6	10-30
Butane	68513-65-5	10-30
Materials determined to be non hazardous		
Ethyl acetate	141-78-6	0-10

4. First Aid Measures

Swallowed Never give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Have victim rinse mouth thoroughly with water. DO NOT INDUCE VOMITING. Have victim drink 240 to 300mL (8 to 10 oz.) of water. If vomiting occurs naturally, rinse mouth and repeat administration of water. Obtain medical attention immediately.

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 contaminated water into the non-affected eye. Obtain medical attention immediately.

Skin Remove contaminated clothing, shoes and leather goods. As quickly as possible, flush contaminated area with lukewarm, gently running water for at least 20 minutes, by the clock. If irritation persists, repeat flushing. Obtain medical attention immediately. Completely decontaminate clothing, shoes and leather goods before re-use, or discard.

Inhaled If symptoms are experienced, remove source of contamination or move victim to fresh air. Keep patient warm and at rest. If breathing is irregular or has stopped administer artificial respiration. Seek medical attention if any effects persist.

Advice to Doctor Treat symptomatically. Respiratory failure is the greater risk from overexposure to hydrocarbon solvents. Where decontamination indicates lavage, ensure a cuffed endotracheal tube is used.

5. Fire Fighting Measures

Emergency Response (See Section 9 Physical and Chemical Properties for Autoignition temp and exposure limits.)

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.

6. Accidental Release Measures

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.

LIQUID SPANNER M890

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7. Safe Handling Information

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.

8. Exposure Control and Personal Protection

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

Name	STEL	TWA
Propane		Asphyxiant
Butane		800ppm
Turpentine substitute	790mg/m ³	
Ethyl Acetate	1400mg/m ³	400ppm

Engineering Controls Use in well ventilated areas. Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use with local flameproof exhaust ventilation or while wearing organic vapour respirator. Vapour is heavier than air – prevent concentrations in hollows or sumps. DO NOT enter confined spaces where vapour may have collected. Explosive gas atmospheres may form, for further information refer to AS 2430.

Personal Protection Respirator Type Where ventilation is not adequate, respiratory protection may be required. An approved organic vapour respirator should be used. Respiratory protection should comply with AS/NZS 1715 and AS/NZS 1716

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.

Glove Type Available information suggests gloves made of nitriles, viton, neoprene or other similar solvent resistant material. Keep solvent contact to a minimum. For help in selecting suitable gloves consult AS2161

Clothing Overalls or similar protective clothing. Consult AS 2919 for advice. Always wash hands before smoking, eating, drinking, or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Flammability Fire Hazards

- Heat or damage to containers may release flammable gases
- Containers will explode when heated – ruptured containers will rocket
- Released gases may form explosive mixtures with air in confined spaces
- Released gases may travel to source of ignition and flash back
- Organic chemicals may form flammable dust clouds in air; will burn if involved in fire
- Fire may produce irritating, poisonous and/or corrosive gases.

9. Physical and Chemical Properties

Appearance & Odour: Clear brown liquid

Boiling Point: between 77° to 195°C (for liquid concentrate)

Specific Gravity: 0.78 (for liquid concentrate)

Solubility in Water: Soluble (for liquid concentrate)

Vapour Pressure: 400Kpa @ 25°C (propane/butane blend propellant)

Flash Point: -17°C (propane/butane blend propellant)

Flamm. Limits: 1.5% to 9.6% in air (v/v)(propane/butane blend propellant)

Autoignition temp: 494°C to 600°C (propane/butane blend propellant)

PH: Not Available

Percent volatiles: approximately 70%

10. Stability and Reactivity

Conditions to avoid:

- Vapour is highly flammable
- Severe fire hazard when exposed to heat or flame
- Vapour forms explosive mixture with air
- Vapour may travel considerable distance to source of ignition
- Heating may cause expansion with violent container rupture
- Aerosol cans may explode on exposure to naked flames
- Rupturing containers may rocket and scatter burning materials
- Hazards may not be restricted to pressure effects
- Organic chemicals may form flammable dust clouds in air; will burn if involved in fire
- May emit acrid, poisonous or corrosive fumes
- On combustion, may emit toxic fumes of carbon monoxide (CO)
- Other combustion products include carbon dioxide (CO₂)

See "Safe Handling Information" (Section 7).

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11. Toxicological Information

Health Effects

Acute

Swallowed

Eye

Skin

Inhaled

Chronic

If swallowed will cause irritation to the mouth, throat and stomach lining. May result in nausea, pain and vomiting. Severe lung damage can occur if solvents are aspirated into lungs.

May cause moderate eye irritation with tearing, pain, redness and possible temporary impairment of vision. Contact with liquefied gas will cause severe damage.

Prolonged contact with skin may have a de-fatting effect which may lead to irritation and in some cases irritant contact dermatitis. Contact with liquefied gas can result in cold contact burns.

Inhalation of solvent vapour may cause nose and throat irritation. Inhalation of solvent vapour may result in nervous system effects such as dizziness, nausea, headache and sleepiness. Overexposures are irritating to the respiratory system. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. Intentional 'sniffing' or inhalation of high levels of concentrated toluene vapours can result in death from cardiac arrest due to ventricular fibrillation, particularly in the case of children or adolescents.

Prolonged or repeated skin contact may lead to irritation contact dermatitis. Chronic solvent inhalation may cause kidney and liver damage and blood changes.

12. Ecological Information

Not Available

13. Disposal Considerations

Recommended method of disposal:

Dispose of according to Federal, State and local government regulations.

EPA hazardous waste number:

Not a RCRA hazardous waste.

14. Transport Information

Transportation:

S5

UN 1950

Class 2.1

Incompatible products:

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 5.1 oxidising agents
- Class 5.2 organic peroxides
- Class 7 radioactive substances

15. Regulatory Information

None Available

16. Other Information

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

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