

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 4
Material Safety Data Sheet	MOLYTEC Spraysafe Aerosol

1. Identification of the Material and Supplier

Company Details: Molytec Australia P/L 1/9 Steel St Capalaba QLD Australia 4157
Phone: 07 3245 2355 Fax: 07 3245 2499
Chemical Nature: Silicone with a propane/butane propellant
Product Name: **Molytec Spraysafe Silicone**
Product Use: Lubricant presented as an aerosol
Product Size: 250g Aerosol Part No. M808
This version issued: December 2010, and is valid for 5 years from this date.

2. Hazards Identification

Statement of Hazardous Nature

This product is classified as: F+, Highly Flammable. Not classified as hazardous according to the criteria of SWA. Dangerous according to the Australian Dangerous Goods (ADG) Code.

Risk Phrases: R11. Highly flammable.

Safety Phrases: S2, S9, S16, S23, S25. Keep out of reach of children. Keep container in a well ventilated place. Keep away from sources of ignition - No smoking. Do not breathe vapour or spray mists. Avoid contact with eyes.

SUSMP Classification: None allocated.

ADG Classification: Class 2.1: Flammable gases.

UN Number: 1950, AEROSOLS

EMERGENCY OVERVIEW

Physical Description & Colour : Colourless liquid

Odour: Almost odourless

Major Health Hazards: No significant risk factors have been found for this product.

POTENTIAL HEALTH EFFECTS

Inhalation:

Short Term Exposure - Available data indicates that this product is not harmful. However, product may be mildly irritating, although unlikely to cause anything more than mild transient discomfort. Intentional misuse by deliberately concentrating and inhaling contents of aerosol containers can be harmful or fatal.

Long Term Exposure - No data for health effects associated with long term inhalation.

Skin Contact:

Short Term Exposure - Major health effect from this product is misuse of the aerosol function. If sprayed continuously on skin or in eyes, it can cause frostbite.

Long Term Exposure - No data for health effects associated with long term skin exposure.

Eye Contact:

Short Term Exposure - If sprayed directly in the eye, this product will irritate. If spraying is prolonged, it may cause damage through frostbite.

Long Term Exposure - No data for health effects associated with long term eye exposure.

Ingestion:

Short Term Exposure - Significant oral exposure is considered to be unlikely. However, this product may be irritation to mucous membranes but is unlikely to cause anything more than transient discomfort.

Long Term Exposure - No data for health effects associated with long term ingestion.

Carcinogen Status:

SWA: No significant ingredient is classified as carcinogenic by SWA. *

NTP: No significant ingredient is classified as carcinogenic by NTP.

IARC: No significant ingredient is classified as carcinogenic by IARC.

*Note that there is an entry at Hazardous Substances Information System for the propellant but notes H & K are cited. Note K indicates that the ingredient need not be classified as a carcinogen or mutagen if it can be shown that the substance contains less than 0.1% w/w 1,3-butadiene. The grade used in this product is specially prepared for aerosol products and contains less than the designated quantity of 1,3-butadiene.

3. Composition and Information on Chemical Ingredients

Ingredients	CAS No.	Conc, %	TWA (mg/m ³)	STEL (mg/m ³)
Alkanes, C 3-4	68475-59-2	>80	Not set **	Not set
Non hazardous silicone	Secret	<20	Not set	Not set

SPRAYSAFE SILICONE M808

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** Note that SWA regards propane as an asphyxiant and sets a TWA of 1900 mg/m³ for butane.

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients are also possible.

The SWA TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The STEL (Short Term Exposure Limit) is an exposure value that may be equalled (but should not be exceeded) for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak" is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

4. First Aid Measures

General Information:

You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this MSDS with you when you call.

Inhalation: First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Skin Contact: Gently blot away excess liquid. Irritation is unlikely. However, if irritation does occur, flush with lukewarm, gently flowing water for 5 minutes or until chemical is removed. Cases of frostbite should be treated by a doctor or at a hospital.

Eye Contact: No effects expected. If irritation does occur, flush contaminated eye(s) with lukewarm, gently flowing water for 5 minutes or until the product is removed. Obtain medical advice if irritation becomes painful or lasts more than a few minutes. Take special care if exposed person is wearing contact lenses. Cases of frostbite should be treated by a doctor or at a hospital.

Ingestion: If product is swallowed or gets in mouth, do NOT induce vomiting; wash mouth with water and give some water to drink. If symptoms develop, or if in doubt contact a Poisons Information Centre or a doctor.

5. Fire Fighting Measures

Fire and Explosion Hazards: This product is classified as extremely flammable. There is a moderate risk of an explosion from this product if commercial quantities are involved in a fire. Firefighters should take care and appropriate precautions. Vapours from this product are heavier than air and may accumulate in sumps, pits and other low-lying spaces, forming potentially explosive mixtures. They may also flash back considerable distances.

Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.

Extinguishing Media: Suitable extinguishing media are carbon dioxide, dry chemical, foam, water fog. Water fog or fine spray is the preferred medium for large fires. Try to contain spills, minimise spillage entering drains or water courses.

Fire Fighting: If a significant quantity of this product is involved in a fire, call the fire brigade. There is a danger of a violent reaction or explosion if significant quantities of this product are involved in a fire. Recommended personal protective equipment is full fire kit and breathing apparatus. Cool closed, undamaged containers exposed to fire with water spray.

Flash point: Below -60°C, (propellant)

Upper Flammability Limit: 9.6% (propellant)

Lower Flammability Limit: 1.5% (propellant)

Autoignition temperature: 494°C (propellant)

Flammability Class: extremely flammable

6. Accidental Release Measures

Accidental release: This product is sold in small packages, and the accidental release from one of these is not usually a cause for concern. For minor spills, clean up, rinsing to sewer and put empty container in garbage. Although no special protective clothing is normally necessary because of occasional minor contact with this product, it is good practice to wear impermeable gloves when handling chemical products. In the event of a major spill, prevent spillage from entering drains or water courses, shut off nearby electrical equipment and call emergency services.

7. Handling and Storage

Handling: Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this MSDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

Storage: Store in a cool, well ventilated area, and make sure that surrounding electrical devices and switches are suitable. Check containers and valves periodically for leaks. If you keep more than 25kg of flammable gases, you are probably required to license the premises or notify your Dangerous Goods authority. If you have any doubts, we suggest you contact your Dangerous Goods authority in order to clarify your obligations. Check packaging - there may be further storage instructions on the label.

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8. Exposure Control and Personal Protection

The following Australian Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: AS/NZS 4501 set 2008, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

SWA Exposure Limits	TWA (mg/m ³)	STEL (mg/m ³)
Butane	1900	not set

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

Ventilation: This product should only be used in a well ventilated area. If natural ventilation is inadequate, use of a fan is suggested.

Eye Protection: Eye protection such as protective glasses or goggles is recommended when product is being used.

Skin Protection: The information at hand indicates that this product is not harmful and that normally no special skin protection is necessary. However, we suggest that you routinely avoid contact with all chemical products and that you wear suitable gloves (preferably elbow-length) when skin contact is likely.

Protective Material Types: There is no specific recommendation for any particular protective material type.

Respirator: Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned above.

9. Physical and Chemical Properties

Physical Description & colour:	Colourless liquid.
Odour:	Almost odourless.
Boiling Point:	Not available.
Freezing/Melting Point:	No specific data. Liquid at normal temperatures (refers to silicone only).
Volatiles:	>80%
Vapour Pressure:	No data.
Vapour Density:	1.5-2.0
Specific Gravity:	No data.
Water Solubility:	Negligible.
pH:	No data.
Volatility:	No data.
Odour Threshold:	No data.
Evaporation Rate:	No data.
Coeff Oil/water Distribution:	No data
Autoignition temp:	494°C

10. Stability and Reactivity

Reactivity: This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.

Conditions to Avoid: This product should be kept in a cool place, preferably below 30°C. Containers should be kept dry. Keep containers and surrounding areas well ventilated. Keep away from sources of sparks or ignition.

Incompatibilities: strong oxidising agents.

Fire Decomposition: Combustion forms carbon dioxide, and if incomplete, carbon monoxide and smoke. Water is also formed. Silicon compounds. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.

Polymerisation: This product will not undergo polymerisation reactions.

11. Toxicological Information

Local Effects:

Target Organs: There is no data to hand indicating any particular target organs.

CLASSIFICATION OF HAZARDOUS INGREDIENTS

No ingredient mentioned in the HSIS Database is present in this product at hazardous concentrations

12. Ecological Information

Insufficient data to be sure of status. Expected to not be an environmental hazard as silicones are typically not hazardous and propellant gas will rapidly evaporate.

13. Disposal Considerations

Disposal: Dispose of small quantities and empty containers by wrapping with paper and putting in garbage. For larger quantities, if recycling or reclaiming is not possible, use a commercial waste disposal service.

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14. Transport Information

ADG Code: 1950, AEROSOLS

Hazchem Code: 2YE

Special Provisions: 63, 190, 277

Limited quantities: ADG 7 specifies a Limited Quantity value of 1000mL for this class of product.

Dangerous Goods Class: Class 2.1: Flammable gases.

Packaging Group: Not set

Packaging Method: P003

Class 2.1 Flammable gases shall not be loaded in the same vehicle or packed in the same freight container with Classes 1 (Explosives), 3 (Flammable Liquids) (where both flammable liquids and flammable gases are in bulk), 4.1 (Flammable Solids), 4.2 (Spontaneously Combustible Substances), 4.3 (Dangerous When Wet Substances), 5.1 (Oxidising Agents), 5.2 (Organic Peroxides), and 7 (Radioactive Substances). They may however be loaded in the same vehicle or packed in the same freight container with Classes 2.2 (Non-flammable Non-Toxic gases), 3 (Flammable liquids except where both flammable liquids and flammable gases are in bulk), 6 (Toxic Substances), 8 (Corrosive Substances) 9 (Miscellaneous dangerous goods), Foodstuffs and foodstuff empties.

15. Regulatory Information

AICS: All of the significant ingredients in this formulation are compliant with NICNAS regulations.

16. Other Information

This MSDS contains only safety-related information. For other data see product literature.

Acronyms:

ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail (7 th edition)
AICS	Australian Inventory of Chemical Substances
SWA	Safe Work Australia, formerly ASCC and NOHSC
CAS number	Chemical Abstracts Service Registry Number
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
IARC	International Agency for Research on Cancer
NOS	Not otherwise specified
NTP	National Toxicology Program (USA)
R-Phrase	Risk Phrase
SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons
UN Number	United Nations Number

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.

Please read all labels carefully before using product.

END OF DOCUMENT

SPRAYSAFE SILICONE M808