## Classified as hazardous according to criteria of NOHSC.

### 1. Chemical Product / Company Identification

| | | | |
|---|---|---|---|
| Product Name: | **Molytec Electric Component Cleaner** | | |
| Product Type: | Electric Component Cleaner & Degreaser | | |
| Product Size: | 400g Aerosol Part No. M837 | | |
| Proper Shipping Name: | Aerosol | UN No.: 1950 | DG Class: 2.2 |
| Sub Risk: | Nil | Hazchem Code: 2Y | Poisons Schedule: n/a |
| Product Use: | Cleaning and Degreasing Agent | | |
| 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

| | | |
|---|---|---|
| **Risk Phases** | **R20** | Harmful by Inhalation |
| **Safety Phrases** | **S2** | Keep Out Of Reach Of Children |
| | **S24** | Avoid Contact With Skin |
| | **S9** | Keep Container In A Well Ventilated Place |

### 3. Composition and Information on Chemical Ingredients

| Chemical Entity | CAS No. | Proportion |
|---|---|---|
| 1-BROMOPROPANE | 106-94-5 | >60% |
| Carbon Dioxide | 124-38-0 | <10% |

### 4. First Aid Measures

**Swallowed:** Do not induce vomiting. Seek medical advice immediately.

**Eye:** Flush eyes immediately and continuously with water for at least 15 minutes. Seek medical advice.

**Skin:** Wash affected areas with mild soap and water. Remove contaminated clothing.

**Inhaled:** Remove to fresh air, if breathing difficulty persists, seek medical advice and administer artificial respiration.

**First Aid Facilities:** No special facilities required.

**ADVICE TO DOCTOR:** Refer to First Aid above.

### 5. Fire Fighting Measures

(See Section 9 Physical and Chemical Properties for Autoignition temp, exposure limits, etc.)

**Flammability:** Non-flammable. Aerosol containers may explode when heated. May evolve toxic gases (hydrocarbons, carbon oxides) when heated to decomposition.

**Fire & Explosion:** Non-flammable aerosol containers may explode when heated. Evacuate area and contact emergency services. Toxic gases may be evolved when heated. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus when combating fire. Use waterfog to cool intact containers and nearby storage areas.

**Extinguishing Media:** Dry agent, carbon dioxide or foam. Prevent contamination of drains or waterways. Absorb runoff with sand or similar.

**Hazchem Code:** 2Y

### 6. Accidental Release Measures

If can is punctured, clear area of all unprotected personnel and ventilate area. Wear splash-proof goggle, neoprene/nitrile gloves, a Type A (Organic Vapour) respirator (where an inhalation risk exists) and coveralls. Collect and allow to discharge outdoors. Absorb residues with sand or similar and place in clean, sealed containers for disposal.

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

## 7. Safe Handling Information

**Storage:** Store in a cool, dry, well ventilated area, out of direct sunlight and out of reach of children, removed from oxidising agents, acids and alkalis, direct sunlight, heat and ignition sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use.

**Handling:** Before use, carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

## 8. Exposure Control and Personal Protection

**Exposure Standards**

| Ingredient | Reference | TWA | | STEL | |
|---|---|---|---|---|---|
| | | Ppm | Mg/m3 | Ppm | Mg/m3 |
| Carbon dioxide | NOHSC (AUS) | 5000.0 | 9000.0 | 30000.0 | 54000.0 |
| Carbon dioxide in coal mines | NOHSC (AUS) | 12500.0 | 22500.0 | 30000.0 | 54000.0 |
| 1-Bromopropane | ACGIH TLV (US) | 10 | | | |

**Biological Limits:** No biological limit allocated

**Engineering Controls:** Do not inhale vapours. Use in well ventilated areas. In poorly ventilated areas, mechanical extraction ventilation is recommended. Maintain vapour levels below the recommended exposure standard.

**PPE:** Wear splash-proof goggles and neoprene or nitrile gloves. When using large quantities or where heavy contamination is likely; wear coveralls. Where an inhalation risk exists, wear a Type A-Class P1 (Organic gases/vapours and Particulate) Respirator. At high vapour levels, wear an Air-line respirator.

## 9. Physical and Chemical Properties

**Appearance & Odour:** Clear colourless liquid with a slight odour
**Boiling Point:** 71ºC (initial)
**Specific Gravity:** 1.33
**Solubility in Water:** Slightly soluble
**% Volatiles by Vol.** 100%
**Flash Point:** Not Relevant
**Vapour Pressure:** 112 mm Hg @ 20ºC
**Vapour Density:** 4.3 (Air = 1)
**Autoignition Temp:** 490ºC

## 10. Stability and Reactivity

**Material to Avoid:** Incompatible with oxidising agents (e.g. Hypochlorites, peroxides), acids (e.g. Sulphuric acid), strong alkalis (e.g. Hydroxides), heat and ignition sources.

**Decomposition:** May evolve toxic gases (hydrocarbons, carbon oxides) when heated to decomposition.

**Conditions to avoid:** See “Safe Handling Information” (Section 7).

## 11. Toxicological Information

**Health Hazard Summary:** Moderate toxicity – irritant. This product has the potential to cause adverse health effects with over exposure. Use safe work practices (ie. Do not overspray in poorly ventilated areas) to avoid prolonged eye-skin contact and vapour inhalation at high levels.

**Eye:** Irritant. Contact may result in irritation, lacrimation, pain, redness, conjunctivitis. May result in burns with prolonged contact.

**Inhalation:** Low to moderate irritant. Over exposure may result in mucous membrane irritation of the nose and throat, coughing, dizziness and headache. Due to the low vapour pressure of the product, a hazard is not anticipated unless used in large amounts in confined or poorly ventilated areas.

**Skin:** Irritant. Contact may result in irritation, redness, rash and dermatitis.

**Ingestion:** Moderate toxicity. Ingestion may result in nausea, vomiting, abdominal pain and drowsiness with large quantities. Aspiration may result in chemical pneumonitis and pulmonary oedema. Ingestion is considered unlikely due to product form.

**Toxicity Data:** 1-Bromopropane (106-94-5) LC50 (Inhalation): 253g/m3 (rat)

## 12. Ecological Information

**Environment:** Limited ecotoxicity data was available for this product at the time this report was prepared. Ensure appropriate measures are taken to prevent this product from entering the environment.

## 13. Disposal Considerations

Recommended method of disposal: For small amounts, absorb contents with sand or similar and dispose of at an approved landfill site. Do not puncture or incinerate aerosol cans. Dispose of according to Federal, State and local government regulations.

## 14. Transport Information

**CLASSIFIED AS A DENGEROUS GOOD BY THE CRITERIA OF THE ADG CODE.**

Shipping Name: Aerosols
DG Class: 2.2
UN No.: 1950
Hazchem Code: 2Y
Pkg Group: None Allocated
Sub Risk(s): None Allocated

## 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.
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