



SAFETY DATA SHEET

Product Name **ELECTRICAL PARTS CLEANER (AEROSOL)**

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier Name CRC INDUSTRIES (AUST) PTY LIMITED
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Synonym(s) 2019 - MANUFACTURER'S CODE · CRC ELECTRICAL PARTS CLEANER (AEROSOL) · ELECTRICAL PARTS CLEANER
Use(s) AEROSOL DISPENSED · CLEANING AGENT · CLEANING EQUIPMENT · ELECTRICAL CLEANER
SDS Date 24 August 2012

2. HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

RISK PHRASES

R11 Highly flammable.
R36 Irritating to eyes.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.

SAFETY PHRASES

S9 Keep container in a well ventilated place.
S16 Keep away from sources of ignition - No smoking.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S46 If swallowed, contact a doctor or Poisons Information Centre immediately and show container or label.

CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

UN Number 1950 **DG Division** 2.1
Packing Group None Allocated **Subsidiary Risk(s)** None Allocated
Hazchem Code 2Y

3. COMPOSITION/ INFORMATION ON INGREDIENTS

| Ingredient | Identification | Classification | Content |
|---|----------------------------------|----------------------------|----------|
| ACETONE | CAS: 67-64-1 EC: 200-662-2 | F;R11 Xi;R36 Xi;R66 Xn;R67 | 10 - 30% |
| ISOPROPYL ALCOHOL | CAS: 67-63-0 EC: 200-661-7 | F;R11 Xi;R36 Xn;R67 | 10 - 30% |
| NAPHTHA (PETROLEUM), HYDROTREATED HEAVY | CAS: 64742-48-9 EC: 265-150-3 | Carc.;R45 Muta.;R46 Xn;R65 | 10 - 30% |
| ISOHEXANES | CAS: 73513-42-5 | Not Available | 10 - 30% |
| CARBON DIOXIDE | CAS: 124-38-9 EC: 204-696-9 | Not Available | 1 - 10% |

4. FIRST AID MEASURES

| | |
|-----------------------------|--|
| Eye | If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes. |
| Inhalation | If inhaled, remove from contaminated area. To protect rescuer, use a Type A (Organic vapour) respirator or an Air-line respirator (in poorly ventilated areas). Apply artificial respiration if not breathing. |
| Skin | If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor. |
| Ingestion | For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If swallowed, do not induce vomiting. Ingestion is considered unlikely due to product form. |
| Advice to Doctor | Treat symptomatically. |
| First Aid Facilities | Eye wash facilities and safety shower should be available. |

5. FIRE FIGHTING MEASURES

| | |
|---------------------------|--|
| Flammability | Highly flammable. May evolve toxic gases (carbon oxides, hydrocarbons) when heated to decomposition. Vapour may form explosive mixtures with air. Eliminate all ignition sources, including cigarettes, open flames, spark producing switches/tools, heaters, pilot lights, mobile phones etc. when handling. Aerosol cans may explode above 50°C. |
| Fire and Explosion | Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas. |
| Extinguishing | Dry agent, carbon dioxide or foam. Prevent contamination of drains or waterways. |
| Hazchem Code | 2Y 2 Water Fog (or fine water spray if fog unavailable) Y Self Contained Breathing apparatus and protective gloves. |

6. ACCIDENTAL RELEASE MEASURES

| | |
|-----------------|--|
| Spillage | If cans/containers are punctured (bulk), use personal protective equipment. Clear area of all unprotected personnel. Ventilate area where possible. Collect and allow to discharge outdoors. Contain spillage, then cover / absorb spill with non-combustible absorbent material (vermiculite, sand, or similar), collect and place in suitable containers for disposal. |
|-----------------|--|

7. STORAGE AND HANDLING

| | |
|-----------------|--|
| Storage | Store in a cool (< 50°C), dry, well ventilated area, removed from oxidising agents, acids, alkalis, heat or ignition sources and foodstuffs. Ensure aerosol containers/ cans are adequately labelled, protected from physical damage and sealed when not in use. Check regularly for damaged/ leaking containers. Large storage areas should have appropriate fire protection systems. |
| 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 CONTROLS / PERSONAL PROTECTION

Exposure Standards

| Ingredient | Reference | TWA | | STEL | |
|------------------------------|-----------|-------|-------------------|-------|-------------------|
| | | ppm | mg/m ³ | ppm | mg/m ³ |
| Acetone | SWA (AUS) | 500 | 1185 | 1000 | 2375 |
| Carbon dioxide | SWA (AUS) | 5000 | 9000 | 30000 | 54000 |
| Carbon dioxide in coal mines | SWA (AUS) | 12500 | 22500 | 30000 | 54000 |
| Hexane, other isomers | SWA (AUS) | 500 | 1760 | 1000 | 3500 |
| Isopropyl alcohol | SWA (AUS) | 400 | 983 | 500 | 1230 |
| Mineral Oil Mist | SWA (AUS) | -- | 5 | -- | -- |

Biological Limits

| Ingredient | Reference | Determinant | Sampling Time | BEI |
|------------|-----------|------------------|---------------|---------|
| ACETONE | ACGIH BEI | Acetone in urine | End of shift | 50 mg/L |

Engineering Controls

Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical explosion proof extraction ventilation is recommended. Flammable vapours may accumulate in poorly ventilated or confined areas. Vapours are heavier than air and may travel some distance to an ignition source and flash back. Maintain vapour levels below the recommended exposure standard.

PPE

- Eye / Face** Wear splash-proof goggles.
- Hands** Wear nitrile or neoprene gloves.
- Body** Not required under normal conditions of use.
- Respiratory** At high vapour levels, wear a Type A-Class P1 (Organic gases/vapours and Particulate) respirator.



9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---------------------------|---|
| Appearance | CLEAR COLOURLESS LIQUID (AEROSOL DISPENSED) |
| Odour | ETHEREAL ODOUR |
| Flammability | HIGHLY FLAMMABLE |
| Flash point | < 23°C |
| Boiling point | NOT AVAILABLE |
| Melting point | NOT AVAILABLE |
| Evaporation rate | NOT AVAILABLE |
| pH | NOT AVAILABLE |
| Vapour density | NOT AVAILABLE |
| Specific gravity | NOT AVAILABLE |
| Solubility (water) | SLIGHTLY SOLUBLE |
| Vapour pressure | NOT AVAILABLE |
| Upper explosion limit | NOT AVAILABLE |
| Lower explosion limit | NOT AVAILABLE |
| Autoignition temperature | NOT AVAILABLE |
| Decomposition temperature | NOT AVAILABLE |
| Viscosity | NOT AVAILABLE |
| Partition coefficient | NOT AVAILABLE |
| % Volatiles | NOT AVAILABLE |

10. STABILITY AND REACTIVITY

| | |
|----------------------------------|---|
| Chemical Stability | Stable under recommended conditions of storage. |
| Conditions to Avoid | Avoid heat, sparks, open flames and other ignition sources. |
| Material to Avoid | Incompatible with oxidising agents (eg. hypochlorites), acids (eg. nitric acid), alkalis (eg. hydroxides), heat and ignition sources. |
| Hazardous Decomposition Products | May evolve toxic gases (carbon oxides, hydrocarbons) when heated to decomposition. |
| Hazardous Reactions | Polymerization is not expected to occur. |

11. TOXICOLOGICAL INFORMATION

| | |
|-----------------------|---|
| Health Hazard Summary | Low to moderate toxicity - irritant. This product may only have the potential to cause adverse health effects if intentionally misused (eg. deliberately inhaling contents). Over exposure may result in central nervous system (CNS) effects. Use safe work practices to avoid eye or skin contact and vapour generation - inhalation. |
|-----------------------|---|

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Eye Irritant. Contact may result in irritation, lacrimation, pain and redness.

Inhalation Irritant. Over exposure may result in irritation of the nose and throat, coughing and headache. High level exposure may result in nausea, dizziness and drowsiness.

Skin Irritant. Contact may result in drying and defatting of the skin, rash and dermatitis.

Ingestion Low to 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

| | |
|------------------------------------|--|
| ACETONE (67-64-1) | |
| LC50 (inhalation) | 44000 mg/m ³ /4 hours (mouse) |
| LCLo (inhalation) | 1600 ppm/4 hours (rat) |
| LD50 (ingestion) | 3000 mg/kg (mouse) |
| LD50 (intraperitoneal) | 1297 mg/kg (mouse) |
| LD50 (intravenous) | 5500 mg/kg (rat) |
| LD50 (skin) | > 9400 uL/kg (guinea pig) |
| LDLo (ingestion) | 8000 mg/kg (dog) |
| LDLo (intraperitoneal) | 500 mg/kg (rat) |
| LDLo (intravenous) | 1576 mg/kg (rabbit) |
| LDLo (skin) | 20 mL/kg (rabbit) |
| LDLo (subcutaneous) | 5000 mg/kg (guinea pig/dog) |
| TCLo (inhalation) | 500 ppm (human) |
| TDL0 (ingestion) | 2857 mg/kg (man) |
| ISOPROPYL ALCOHOL (67-63-0) | |
| LC50 (inhalation) | 16000 ppm/8 hours 16000/8 hours (rat) |
| LCLo (inhalation) | 12000 ppm/8 hours (mouse) |
| LD50 (ingestion) | 3600 mg/kg (mouse) |
| LD50 (intraperitoneal) | 667 mg/kg (rabbit) |
| LD50 (intravenous) | 1088 mg/kg (rat) |
| LD50 (skin) | 12,800 mg/kg (rabbit) |
| LDLo (ingestion) | 3570 mg/kg (human) |
| LDLo (intravenous) | 1024 mg/kg (dog) |
| LDLo (subcutaneous) | 6000 mg/kg (mouse) |
| TDL0 (ingestion) | 13 mg/kg (infant) |
| CARBON DIOXIDE (124-38-9) | |
| LC50 (inhalation) | 470000 ppm/30M (rat) |
| LCLo (inhalation) | 9 pph/5M (human) |

12. ECOLOGICAL INFORMATION

Environment Aliphatic hydrocarbons behave differently in the environment depending on their size. WATER: Light aliphatics volatilise rapidly from water (half life - few hours). Bioconcentration should not be significant. SOIL: Light aliphatics biodegrade quickly in soil and water, heavy aliphatics biodegrade very slowly. ATMOSPHERE: Vapour-phase aliphatics will degrade by reaction with hydroxyl radicals.

13. DISPOSAL CONSIDERATIONS

Waste Disposal For small amounts absorb contents with sand or similar and dispose of to an approved landfill site. Do not puncture or incinerate aerosol cans. Contact the manufacturer for additional information.

Legislation Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE



Product Name **ELECTRICAL PARTS CLEANER (AEROSOL)**

| | LAND TRANSPORT (ADG) | SEA TRANSPORT (IMDG / IMO) | AIR TRANSPORT (IATA / ICAO) |
|-----------------------------|---------------------------------|---------------------------------------|--|
| UN Number | 1950 | - | - |
| Proper Shipping Name | AEROSOLS | - | - |
| DG Class/ Division | 2.1 | - | - |
| Subsidiary Risk(s) | None Allocated | - | - |
| Packing Group | None Allocated | - | - |
| GTEPG | 2D1 | | |
| Hazchem Code | 2Y | | |

15. REGULATORY INFORMATION

| | |
|-----------------------------|--|
| Poison Schedule | A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) |
| Inventory Listing(s) | AUSTRALIA: AICS (Australian Inventory of Chemical Substances) All components are listed on AICS, or are exempt. |

16. OTHER INFORMATION

| | |
|-------------------------------|---|
| Additional Information | <p>AEROSOL CANS may explode at temperatures approaching 50°C.</p> <p>RESPIRATORS: In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.</p> <p>PERSONAL PROTECTIVE EQUIPMENT GUIDELINES: The recommendation for protective equipment contained within this ChemAlert report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.</p> <p>HEALTH EFFECTS FROM EXPOSURE: It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a ChemAlert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.</p> |
| Abbreviations | <p>ACGIH American Conference of Governmental Industrial Hygienists CAS # Chemical Abstract Service number - used to uniquely identify chemical compounds CNS Central Nervous System EC No. EC No - European Community Number GHS Globally Harmonized System IARC International Agency for Research on Cancer LD50 Lethal Dose, 50% / Median Lethal Dose mg/m³ Milligrams per Cubic Metre PEL Permissible Exposure Limit pH relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline). ppm Parts Per Million REACH Regulation on Registration, Evaluation, Authorisation and Restriction of Chemicals STOT-RE Specific target organ toxicity (repeated exposure) STOT-SE Specific target organ toxicity (single exposure) SUSMP Standard for the Uniform Scheduling of Medicines and Poisons TLV Threshold Limit Value TWA/OEL Time Weighted Average or Occupational Exposure Limit</p> |

Product Name **ELECTRICAL PARTS CLEANER (AEROSOL)**

Revision History

| Revision | Description |
|----------|----------------------|
| 1.1 | Standard SDS Review |
| 1.0 | Initial SDS creation |

Report Status

This document has been compiled by RMT on behalf of the manufacturer of the product and serves as the manufacturer's Safety Data Sheet ('SDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer.

While RMT has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

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Revision: 1.1

SDS Date: 24 August 2012

End of SDS

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