



## SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

#### 1.1 Product identifier

**Product name** DIELECTRIC GREASE (5109)  
**Synonym(s)** 5109 - PRODUCT CODE

#### 1.2 Uses and uses advised against

**Use(s)** ELECTRICAL LUBRICANT • LUBRICANT

#### 1.3 Details of the supplier of the product

**Supplier name** CRC INDUSTRIES (AUST) PTY LIMITED  
**Address** 9 Gladstone Road, Castle Hill, NSW, 2154, AUSTRALIA  
**Telephone** (02) 9849 6700  
**Fax** (02) 9680 4914  
**Email** [info@crcind.com.au](mailto:info@crcind.com.au)  
**Website** [www.crcindustries.com.au](http://www.crcindustries.com.au)

#### 1.4 Emergency telephone number(s)

**Emergency** 13 11 26 (PIC)

### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

#### 2.2 Label elements

No signal word, pictograms, hazard or precautionary statements have been allocated.

#### 2.3 Other hazards

No information provided.

### 3. COMPOSITION/ INFORMATION ON INGREDIENTS

#### 3.1 Substances / Mixtures

| Ingredient           | CAS Number | EC Number | Content |
|----------------------|------------|-----------|---------|
| POLYDIMETHYLSILOXANE | 63148-62-9 | 613-156-5 | <100%   |
| SILICA, AMORPHOUS    | 7631-86-9  | 231-545-4 | <100%   |

### 4. FIRST AID MEASURES

#### 4.1 Description of 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. 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.

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**First aid facilities** No information provided.

### **4.2 Most important symptoms and effects, both acute and delayed**

See Section 11 for more detailed information on health effects and symptoms.

### **4.3 Immediate medical attention and special treatment needed**

Treat symptomatically.

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## **5. FIRE FIGHTING MEASURES**

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### **5.1 Extinguishing media**

Use an extinguishing agent suitable for the surrounding fire.

### **5.2 Special hazards arising from the substance or mixture**

Non flammable. May evolve toxic gases if strongly heated.

### **5.3 Advice for firefighters**

Treat as per requirements for surrounding fires. Evacuate area and contact emergency services. 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.

### **5.4 Hazchem code**

None allocated.

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## **6. ACCIDENTAL RELEASE MEASURES**

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### **6.1 Personal precautions, protective equipment and emergency procedures**

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS.

### **6.2 Environmental precautions**

Prevent product from entering drains and waterways.

### **6.3 Methods of cleaning up**

Contain spillage, then cover / absorb spill with non-combustible absorbent material (vermiculite, sand, or similar), collect and place in suitable containers for disposal.

### **6.4 Reference to other sections**

See Sections 8 and 13 for exposure controls and disposal.

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## **7. HANDLING AND STORAGE**

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### **7.1 Precautions for safe 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.

### **7.2 Conditions for safe storage, including any incompatibilities**

Store in a cool, dry, well ventilated area, removed from incompatible substances, heat or ignition sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Check regularly for leaks or spills. Large storage areas should have appropriate fire protection systems.

### **7.3 Specific end use(s)**

No information provided.

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## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

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### **8.1 Control parameters**

#### **Exposure standards**

| Ingredient                     | Reference | TWA |                   | STEL |                   |
|--------------------------------|-----------|-----|-------------------|------|-------------------|
|                                |           | ppm | mg/m <sup>3</sup> | ppm  | mg/m <sup>3</sup> |
| Fumed silica (respirable dust) | SWA (AUS) | --  | 2                 | --   | --                |

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### Biological limits

No biological limit values have been entered for this product.

### 8.2 Exposure controls

**Engineering controls** Avoid inhalation. Use in well ventilated areas. Maintain vapour levels below the recommended exposure standard.

### PPE

|                    |   |
|--------------------|---|
| <b>Eye / Face</b>  | Wear splash-proof goggles.  |
| <b>Hands</b>       | Wear PVC or rubber gloves.  |
| <b>Body</b>        | When using large quantities or where heavy contamination is likely, wear coveralls. |
| <b>Respiratory</b> | Not required under normal conditions of use.  |



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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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### 9.1 Information on basic physical and chemical properties

|                                  |                            |
|----------------------------------|----------------------------|
| <b>Appearance</b>                | VISCOUS TRANSLUCENT GREASE |
| <b>Odour</b>                     | ODOURLESS                  |
| <b>Flammability</b>              | NON FLAMMABLE              |
| <b>Flash point</b>               | NOT RELEVANT               |
| <b>Boiling point</b>             | NOT AVAILABLE              |
| <b>Melting point</b>             | NOT AVAILABLE              |
| <b>Evaporation rate</b>          | NOT AVAILABLE              |
| <b>pH</b>                        | NOT AVAILABLE              |
| <b>Vapour density</b>            | NOT AVAILABLE              |
| <b>Specific gravity</b>          | NOT AVAILABLE              |
| <b>Solubility (water)</b>        | INSOLUBLE                  |
| <b>Vapour pressure</b>           | NOT AVAILABLE              |
| <b>Upper explosion limit</b>     | NOT AVAILABLE              |
| <b>Lower explosion limit</b>     | NOT AVAILABLE              |
| <b>Partition coefficient</b>     | NOT AVAILABLE              |
| <b>Autoignition temperature</b>  | NOT AVAILABLE              |
| <b>Decomposition temperature</b> | NOT AVAILABLE              |
| <b>Viscosity</b>                 | NOT AVAILABLE              |
| <b>Explosive properties</b>      | NOT AVAILABLE              |
| <b>Oxidising properties</b>      | NOT AVAILABLE              |
| <b>Odour threshold</b>           | NOT AVAILABLE              |

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## 10. STABILITY AND REACTIVITY

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### 10.1 Reactivity

Carefully review all information provided in sections 10.2 to 10.6.

### 10.2 Chemical stability

Stable under recommended conditions of storage.

### 10.3 Possibility of hazardous reactions

Hazardous polymerization is not expected to occur.

### 10.4 Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources. Avoid exposure to moisture.

### 10.5 Incompatible materials

Incompatible with oxidising agents (e.g. hypochlorites), acids (e.g. nitric acid), alkalis (e.g. sodium hydroxide), heat and ignition sources.

**10.6 Hazardous decomposition products**

May evolve toxic gases if heated to decomposition.

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**11. TOXICOLOGICAL INFORMATION**

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**11.1 Information on toxicological effects**

|                                   |  |                                   |  |                  |                     |             |                        |                  |                  |             |                     |                               |  |                  |                  |
|-----------------------------------|--|-----------------------------------|--|------------------|---------------------|-------------|------------------------|------------------|------------------|-------------|---------------------|-------------------------------|--|------------------|------------------|
| <b>Health hazard summary</b>      | Low toxicity - low irritant. Under normal conditions of use, adverse health effects are not anticipated.   |                                   |  |                  |                     |             |                        |                  |                  |             |                     |                               |  |                  |                  |
| <b>Eye</b>                        | Low irritant. Due to product form and nature of use, the potential for exposure is reduced. However, direct contact may result in irritation, lacrimation and conjunctivitis.  |                                   |  |                  |                     |             |                        |                  |                  |             |                     |                               |  |                  |                  |
| <b>Inhalation</b>                 | Low to moderate irritant. Over exposure to vapours may result in irritation of the nose and throat, with coughing. High level exposure may result in dizziness, nausea and headache. Due to the low vapour pressure, an inhalation hazard is not anticipated with normal use.  |                                   |  |                  |                     |             |                        |                  |                  |             |                     |                               |  |                  |                  |
| <b>Skin</b>                       | Low irritant. Prolonged or repeated contact may result in mild irritation, rash and dermatitis.  |                                   |  |                  |                     |             |                        |                  |                  |             |                     |                               |  |                  |                  |
| <b>Ingestion</b>                  | Low toxicity. Ingestion of large quantities may result in nausea, vomiting and gastrointestinal irritation.  |                                   |  |                  |                     |             |                        |                  |                  |             |                     |                               |  |                  |                  |
| <b>Toxicity data</b>              | <table><tr><td colspan="2">POLYDIMETHYLSILOXANE (63148-62-9)</td></tr><tr><td>LD50 (ingestion)</td><td>&gt; 17000 mg/kg (rat)</td></tr><tr><td>LD50 (skin)</td><td>&gt; 2000 mg/ kg (rabbit)</td></tr><tr><td>LDLo (ingestion)</td><td>&gt; 50 mL/kg (rat)</td></tr><tr><td>LDLo (skin)</td><td>&gt; 20 mL/kg (rabbit)</td></tr><tr><td colspan="2">SILICA, AMORPHOUS (7631-86-9)</td></tr><tr><td>LD50 (ingestion)</td><td>3160 mg/kg (rat)</td></tr></table> | POLYDIMETHYLSILOXANE (63148-62-9) |  | LD50 (ingestion) | > 17000 mg/kg (rat) | LD50 (skin) | > 2000 mg/ kg (rabbit) | LDLo (ingestion) | > 50 mL/kg (rat) | LDLo (skin) | > 20 mL/kg (rabbit) | SILICA, AMORPHOUS (7631-86-9) |  | LD50 (ingestion) | 3160 mg/kg (rat) |
| POLYDIMETHYLSILOXANE (63148-62-9) |  |                                   |  |                  |                     |             |                        |                  |                  |             |                     |                               |  |                  |                  |
| LD50 (ingestion)                  | > 17000 mg/kg (rat)  |                                   |  |                  |                     |             |                        |                  |                  |             |                     |                               |  |                  |                  |
| LD50 (skin)                       | > 2000 mg/ kg (rabbit)   |                                   |  |                  |                     |             |                        |                  |                  |             |                     |                               |  |                  |                  |
| LDLo (ingestion)                  | > 50 mL/kg (rat)   |                                   |  |                  |                     |             |                        |                  |                  |             |                     |                               |  |                  |                  |
| LDLo (skin)                       | > 20 mL/kg (rabbit)  |                                   |  |                  |                     |             |                        |                  |                  |             |                     |                               |  |                  |                  |
| SILICA, AMORPHOUS (7631-86-9)     |  |                                   |  |                  |                     |             |                        |                  |                  |             |                     |                               |  |                  |                  |
| LD50 (ingestion)                  | 3160 mg/kg (rat)   |                                   |  |                  |                     |             |                        |                  |                  |             |                     |                               |  |                  |                  |

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**12. ECOLOGICAL INFORMATION**

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**12.1 Toxicity**

No information provided.

**12.2 Persistence and degradability**

No information provided.

**12.3 Bioaccumulative potential**

No information provided.

**12.4 Mobility in soil**

No information provided.

**12.5 Other adverse effects**

No information provided.

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**13. DISPOSAL CONSIDERATIONS**

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**13.1 Waste treatment methods**

|                       |  |
|-----------------------|--|
| <b>Waste disposal</b> | For small amounts, absorb with sand, vermiculite or similar and dispose of to an approved landfill site. Contact the manufacturer/supplier for additional information if disposing of large quantities (if required). Prevent contamination of drains and waterways as aquatic life may be threatened and environmental damage may result. |
| <b>Legislation</b>    | Dispose of in accordance with relevant local legislation.  |

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**14. TRANSPORT INFORMATION**

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NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE, IMDG OR IATA

**PRODUCT NAME DIELECTRIC GREASE (5109)**

|                                    | <b>LAND TRANSPORT<br/>(ADG)</b> | <b>SEA TRANSPORT<br/>(IMDG / IMO)</b> | <b>AIR TRANSPORT<br/>(IATA / ICAO)</b> |
|------------------------------------|---------------------------------|---------------------------------------|--|
| <b>14.1 UN Number</b>              | None Allocated                  | None Allocated                        | None Allocated                         |
| <b>14.2 Proper Shipping Name</b>   | None Allocated                  | None Allocated                        | None Allocated                         |
| <b>14.3 Transport hazard class</b> | None Allocated                  | None Allocated                        | None Allocated                         |
| <b>14.4 Packing Group</b>          | None Allocated                  | None Allocated                        | None Allocated                         |

**14.5 Environmental hazards** No information provided

**14.6 Special precautions for user**

**Hazchem code** None Allocated

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**15. REGULATORY INFORMATION**

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**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**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).

**Classifications** Safework Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals.

The classifications and phrases listed below are based on the Approved Criteria for Classifying Hazardous Substances [NOHSC: 1008(2004)].

**Hazard codes** None allocated.

**Risk phrases** None allocated.

**Safety phrases** None allocated.

**Inventory listing(s)** **AUSTRALIA: AICS (Australian Inventory of Chemical Substances)**  
All components are listed on AICS, or are exempt.

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**16. OTHER INFORMATION**

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**Additional information** SILICONES & THE ENVIRONMENT. If released to soil, polysiloxanes are known to adsorb strongly and it will remain essentially immobile. It will not volatilize to the atmosphere nor will it biodegrade. Polysiloxanes will not undergo hydrolysis in soil except in clay soils which are known to catalyse this reaction. If released to water, it is expected to adsorb strongly to sediment and suspended organic matter. Polysiloxanes will not bioconcentrate in fish and aquatic organisms because it is too big to pass through biological membranes.

**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.

**PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:**

The recommendation for protective equipment contained within this 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.

**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.

**PRODUCT NAME DIELECTRIC GREASE (5109)**

|                      |                   |   |
|----------------------|-------------------|---|
| <b>Abbreviations</b> | 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   |
|                      | EMS               | Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous Goods)                   |
|                      | GHS               | Globally Harmonized System  |
|                      | GTEPG             | Group Text Emergency Procedure Guide  |
|                      | IARC              | International Agency for Research on Cancer   |
|                      | LC50              | Lethal Concentration, 50% / Median Lethal Concentration   |
|                      | LD50              | Lethal Dose, 50% / Median Lethal Dose   |
|                      | mg/m <sup>3</sup> | Milligrams per Cubic Metre  |
|                      | OEL               | Occupational Exposure Limit   |
|                      | pH                | relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline). |
|                      | ppm               | Parts Per Million   |
|                      | STEL              | Short-Term Exposure Limit   |
|                      | 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                                    |
|                      | SWA               | Safe Work Australia   |
|                      | TLV               | Threshold Limit Value   |
|                      | TWA               | Time Weighted Average   |

**Revision history**

| Revision | Description                   |
|----------|-------------------------------|
| 2.0      | GHS classifications provided. |
| 1.0      | Initial SDS creation          |

**Report status**

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

It is based on information concerning the product which has been provided to RMT by the manufacturer, importer or supplier 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, importer or supplier.

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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**SDS date:** 12 February 2015

**[ End of SDS ]**