SAFETY DATA SHEET

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

### 1.1 Product identifier

| Product name | WHITE LITHIUM GREASE (AEROSOL) |
| :--- | :--- |
| Synonym(s) | $5037-$ MANUFACTURER'S CODE $\cdot$ CRC WHITE LITHIUM GREASE |
|  | AEROSOL WHITE LITHIUM GREASE |

1.2 Uses and uses advised against

Use(s) GREASE • LUBRICANT • LUBRICANT - AEROSOL
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 | $(02) 98496700$ |
| Fax | (02) 96804914 |
| Email | $\underline{\text { info@crcind.com.au }}$ |
| Website | $\underline{\text { www.crcindustries.com.au }}$ |

1.4 Emergency telephone number(s)

Emergency 131126 (PIC)

## 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA
GHS classification(s) Aerosols: Category 1
Aquatic Toxicity (Chronic): Category 2
Specific Target Organ Systemic Toxicity (Single Exposure): Category 3
Skin Corrosion/Irritation: Category 2

### 2.2 Label elements

## Signal word

Pictogram(s)

## DANGER





Hazard statement(s)
H222
H229
Extremely flammable aerosol.
Pressurized container: may burst if heated.
H315
Causes skin irritation.
May cause drowsiness or dizziness.
Toxic to aquatic life with long lasting effects.

## PRODUCT NAME WHITE LITHIUM GREASE (AEROSOL)

## Prevention statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Pressurized container: Do not pierce or burn, even after use.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash thoroughly after handling
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

## Response statement(s)

P302 + P352 IF ON SKIN: Wash with plenty of soap and water
P304 + P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P321 Specific treatment is advised - see first aid instructions.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P362
P391
Take off contaminated clothing and wash before re-use.
Collect spillage.
Storage statement(s)
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding $50^{\circ} \mathrm{C}$.

## Disposal statement(s)

P501
Dispose of contents/container in accordance with relevant regulations.

### 2.3 Other hazards

No information provided.

## 3. COMPOSITION/ INFORMATION ON INGREDIENTS

3.1 Substances / Mixtures

| Ingredient | CAS Number | EC Number | Content |
| :--- | :--- | :--- | :--- |
| 2-METHYLPENTANE | $107-83-5$ | $203-523-4$ | 30 to $60 \%$ |
| DISTILLATES (PETROLEUM), ACID-TREATED HEAVY <br> NAPHTHENIC | $64742-18-3$ | $265-117-3$ | 10 to $30 \%$ |
| PETROLEUM GASES, LIQUEFIED | $68476-85-7$ | $270-704-2$ | 10 to $30 \%$ |
| ZINC OXIDE | $1314-13-2$ | $215-222-5$ | $<10 \%$ |

## 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 131126 (Australia Wide) or a doctor (at once). If swallowed, do not induce vomiting
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.

## 5. FIRE FIGHTING MEASURES

## PRODUCT NAME WHITE LITHIUM GREASE (AEROSOL)

### 5.1 Extinguishing media

Dry agent, carbon dioxide or foam. Prevent contamination of drains and waterways.

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

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, naked lights, pilot lights, etc when handling. Aerosol cans may explode when heated above $50^{\circ} \mathrm{C}$

### 5.3 Advice for firefighters

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.

### 5.4 Hazchem code

$2 Y$
2 Fine Water Spray.
Y Risk of violent reaction or explosion. Wear full fire kit and breathing apparatus. Contain spill and run-off.

## 6. ACCIDENTAL RELEASE MEASURES

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

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS. Clear area of all unprotected personnel. Ventilate area where possible.

### 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.

## 7. HANDLING AND STORAGE

### 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 ( $<50^{\circ} \mathrm{C}$ ), dry, well ventilated area, removed from incompatible substances, 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.

### 7.3 Specific end use(s)

No information provided.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

## Exposure standards

| Ingredient | Reference | TWA |  | STEL |  |
| :--- | :--- | :---: | :---: | :---: | :---: |
|  |  | $\mathbf{p p m}$ | $\mathbf{m g} / \mathbf{m}^{\mathbf{3}}$ | $\mathbf{p p m}$ | $\mathbf{m g} / \mathbf{m}^{\mathbf{3}}$ |
| Hexane, other isomers | SWA (AUS) | 500 | 1760 | 1000 | 3500 |
| Liquefied petroleum gas (LPG) | SWA (AUS) | 1000 | 1800 | 1000 | 1800 |
| Oil mists | SWA (AUS) | -- | 5 | -- | -- |
| Zinc oxide (dust) | SWA (AUS) | -- | 10 | -- | -- |
| Zinc oxide (fume) | SWA (AUS) | -- | 5 | -- | 10 |

## 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. Where an inhalation risk exists, mechanical explosion proof extraction ventilation is recommended. Flammable/explosive vapours may accumulate in poorly ventilated 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 | When using large quantities or where heavy contamination is likely, wear viton $(R)$ or nitrile gloves. |
| Body | When using large quantities or where heavy contamination is likely, wear coveralls. |
| Respiratory | Where an inhalation risk exists, wear a Type A-Class P1 (Organic gases/vapours and Particulate) respirator. |
|  | Where the boiling point is < $65^{\circ} \mathrm{C}$, use an AX filter type. |



## 9. PHYSICAL AND CHEMICAL PROPERTIES

```
9.1 Information on basic physical and chemical properties
    Odour
    Flammability
    Flash point
    Boiling point
    Melting point
    Evaporation rate
    pH
    Vapour density
    Specific gravity
    Solubility (water)
    Vapour pressure
    Upper explosion limit
    Lower explosion limit
    Partition coefficient
    Autoignition temperature
    Decomposition temperature
    Viscosity
    Explosive properties
    Oxidising properties
    Odour threshold
9.2 Other information
    % Volatiles 70 %
```

Appearance
9.2 Other information
\% Volatiles $70 \%$
SOLVENT ODOUR
HIGHLY FLAMMABLE
< -5'C
59}\mp@subsup{}{}{\circ}\textrm{C}\mathrm{ (Initial)
NOT AVAILABLE
NOT AVAILABLE
NOT AVAILABLE
> 1 (Air = 1)
0.663
INSOLUBLE
NOT AVAILABLE
NOT AVAILABLE
NOT AVAILABLE
NOT AVAILABLE
NOT AVAILABLE
NOT AVAILABLE
NOT AVAILABLE
NOT AVAILABLE
NOT AVAILABLE
NOT AVAILABLE

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                VISCOUS OFF-WHITE LIQUID (AEROSOL DISPENSED)
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                VISCOUS OFF-WHITE LIQUID (AEROSOL DISPENSED)
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\section*{10. STABILITY AND REACTIVITY}

\subsection*{10.1 Reactivity}

Carefully review all information provided in sections 10.2 to 10.6 .

\subsection*{10.2 Chemical stability}

Stable under recommended conditions of storage.
10.3 Possibility of hazardous reactions

Polymerization will not occur.
10.4 Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources

\subsection*{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.

\subsection*{10.6 Hazardous decomposition products}

May evolve carbon oxides and hydrocarbons when heated to decomposition.

\section*{11. TOXICOLOGICAL INFORMATION}

\subsection*{11.1 Information on toxicological effects}
\begin{tabular}{ll} 
Health hazard & \begin{tabular}{l} 
May be harmful. Use safe work practices to avoid eye or skin contact and inhalation. The mineral oil \\
contained within this product is highly refined and therefore is not classifiable as to its carcinogenicity in
\end{tabular} \\
cumary & \begin{tabular}{l} 
humans (IARC Group 3). Do not deliberately inhale contents or misuse aerosols as they can be fatal.
\end{tabular} \\
Irritant. Contact may result in irritation, lacrimation, pain and redness. \\
Eye & \begin{tabular}{l} 
Low to moderate irritant. Over exposure to vapours may result in irritation of the nose and throat, coughing, \\
nausea and headache. High level exposure may result in drowsiness and breathing difficulties.
\end{tabular} \\
Skin & \begin{tabular}{l} 
Irritant. Contact may result in irritation, redness, pain and rash.
\end{tabular} \\
Ingestion & \begin{tabular}{l} 
May be harmful. Ingestion may result in nausea, vomiting, abdominal pain and drowsiness with large \\
quantities. Aspiration or inhalation may cause chemical pneumonitis and pulmonary oedema. Ingestion is
\end{tabular}
\end{tabular}

Toxicity data

\section*{ZINC OXIDE (1314-13-2)}

LC50 (inhalation) \(\quad 2500 \mathrm{mg} / \mathrm{m}^{3}\) (mouse)
LD50 (ingestion) \(\quad 7950 \mathrm{mg} / \mathrm{kg}\) (mouse)
LD50 (intraperitoneal) \(\quad 240 \mathrm{mg} / \mathrm{kg}\) (rat)
LDLo (ingestion) \(\quad 500 \mathrm{mg} / \mathrm{kg}\) (human)
TCLo (inhalation) \(\quad 600 \mathrm{mg} / \mathrm{m}^{3}\) (human)

\section*{12. ECOLOGICAL INFORMATION}

\subsection*{12.1 Toxicity}

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

\subsection*{12.2 Persistence and degradability}

No information provided.

\subsection*{12.3 Bioaccumulative potential}

No information provided.

\subsection*{12.4 Mobility in soil}

No information provided.

\subsection*{12.5 Other adverse effects}

Mineral oils biodegrade slowly and should not be released to waterways or soil. They can float on water, restricting oxygen exchange with possible asphyxiation of aquatic life.

\section*{13. DISPOSAL CONSIDERATIONS}

\subsection*{13.1 Waste treatment methods}
\begin{tabular}{ll} 
Waste disposal & \begin{tabular}{l} 
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/supplier for additional information (if required).
\end{tabular} \\
Legislation & Dispose of in accordance with relevant local legislation.
\end{tabular}

\section*{14. TRANSPORT INFORMATION}

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

\begin{tabular}{|l|c|c|c|}
\hline & \begin{tabular}{c} 
LAND TRANSPORT \\
(ADG)
\end{tabular} & \begin{tabular}{c} 
SEA TRANSPORT \\
(IMDG / IMO)
\end{tabular} & \begin{tabular}{c} 
AIR TRANSPORT \\
(IATA / ICAO)
\end{tabular} \\
\hline 14.1 UN Number & 1950 & 1950 & 1950 \\
\hline \begin{tabular}{l} 
14.2 Proper \\
Shipping Name
\end{tabular} & AEROSOLS & AEROSOLS & AEROSOLS \\
\hline \begin{tabular}{l} 
14.3 Transport \\
hazard class
\end{tabular} & 2.1 & 2.1 & 2.1 \\
\hline 14.4 Packing Group & None Allocated & None Allocated & None Allocated \\
\hline
\end{tabular}
14.5 Environmental hazards No information provided
14.6 Special precautions for user

Hazchem code 2Y
GTEPG 2D1
EMS F-D,S-U

\section*{15. REGULATORY INFORMATION}
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
\begin{tabular}{|c|c|}
\hline 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). \\
\hline \multirow[t]{2}{*}{Classifications} & Safework Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals. \\
\hline & The classifications and phrases listed below are based on the Approved Criteria for Classifying Hazardous Substances [NOHSC: 1008(2004)]. \\
\hline \multirow[t]{4}{*}{Hazard codes} & F+ Extremely flammable \\
\hline & \(\mathrm{N} \quad\) Dangerous for the environment \\
\hline & Xi Irritant \\
\hline & Xn Harmful \\
\hline \multirow[t]{4}{*}{Risk phrases} & R12 Extremely Flammable. \\
\hline & R38 Irritating to skin. \\
\hline & R51/53 Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment. \\
\hline & R67 Vapours may cause drowsiness and dizziness. \\
\hline \multirow[t]{6}{*}{Safety phrases} & S9 Keep container in a well ventilated place. \\
\hline & S16 Keep away from sources of ignition - No smoking. \\
\hline & S23 Do not breathe gas/fumes/vapour/spray (where applicable). \\
\hline & S37/39 Wear suitable gloves and eye/face protection. \\
\hline & S45 In case of accident or if you feel unwell seek medical advice immediately (show the label \\
\hline & S61 Avoid release to the environment. Refer to special instructions/safety data sheets. \\
\hline Inventory listing(s) & AUSTRALIA: AICS (Australian Inventory of Chemical Substances) All components are listed on AICS, or are exempt. \\
\hline
\end{tabular}

\section*{16. OTHER INFORMATION}

\section*{Additional information}

MINERAL OILS - SOLVENT REFINED: Animal experiments and human experience have not shown cancer risks when handling solvent refined mineral oils, unlike non refined mineral oils. CLEANING MINERAL OIL CONTAMINATED CLOTHING: Cleaners are advised that when cleaning oil contaminated clothing it is essential that freshly distilled solvent is used for each batch, including final rinse, as even filtered solvent will leave oil residues.

MINERAL OILS - INJECTION: Where high pressure applications are used the risk of accidental injection under the skin exists and may result in an extremely painful and serious injury requiring immediate medical attention. Depending on the pressure used, mineral oils may be injected a considerable distance below the skin and may cause permanent tissue damage. SEEK IMMEDIATE MEDICAL ATTENTION. EXERCISE EXTREME CARE WHEN USING HIGH PRESSURE EQUIPMENT.

AEROSOL CANS may explode at temperatures approaching \(50^{\circ} \mathrm{C}\).
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.
\begin{tabular}{lll} 
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/m³ & 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
\end{tabular}

\section*{Revision history}
\begin{tabular}{|l|l|}
\hline Revision & Description \\
\hline 2.0 & GHS classifications provided. \\
\hline 1.0 & Initial SDS creation \\
\hline
\end{tabular}

\section*{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.

\title{
PRODUCT NAME \\ WHITE LITHIUM GREASE (AEROSOL)
}

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[ End of SDS ]```

