

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier

- **Trade name: 8461**
 - **Other Means of Identification:** White Lithium Grease
 - **Related Part Number:** 8461, 8461-85ML, 8461-1P

1.2 Relevant identified uses of the substance or mixture and uses advised against

- **Application of the substance / the mixture** Lubricant
- **Uses advised against** Not available

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

MG Chemicals Ltd. (Head Office)
1210 Corporate Drive
Burlington, Ontario L7L 5R6
CANADA
+(1) 905-331-1396
info@mgchemicals.com

MG Chemicals
Heame House, 23 Bliston Street
Sedgely Dudley DY3 1JA.
United Kingdom
+(44) 1663 362888

MG Chemicalst Ltd.
18-20, Msida Road,
Gzira, GZR 1401
MALTA

- **Further information obtainable from:** sds@mgchemicals.com

1.4 Emergency telephone number:

3E (Access code: 335388)
+(44) 20 3514787
+(1) 760 476 3961
UK Toll free: +(0) 800 680 0425

Members of the public seeking specific information on poisons should contact:
In England and Wales: NHS 111 - dial 111
In Scotland: NHS 24 - dial 111

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

- **Classification according to Regulation (EC) No 1272/2008**
Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

2.2 Label elements

- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the GB CLP regulation.

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· Hazard pictograms



GHS09

· **Signal word** Not applicable

· Hazard statements

H411 Toxic to aquatic life with long lasting effects.

· Precautionary statements

P273 Avoid release to the environment.

P391 Collect spillage.

P501 Dispose of contents and container in accordance with local, regional, and national regulations.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Determination of endocrine-disrupting properties** Endocrine Disruptor substance $\geq 0.1\%$ = none

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· **Description:** Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

| | | |
|--|--|-------|
| CAS: 64742-65-0 EINECS: 265-169-7 Index number: 649-474-00-6 | Distillates (petroleum), solvent-dewaxed heavy paraffinic | 62.0% |
| CAS: 64742-62-7 EINECS: 265-166-0 Index number: 649-471-00-X | Residual oils (petroleum), solvent-dewaxed | 27.0% |
| CAS: 7620-77-1 | lithium 12-hydroxystearate | 5.0% |
| CAS: 1314-13-2 EINECS: 215-222-5 Index number: 030-013-00-7 | zinc oxide  Aquatic Acute 1, H400; Aquatic Chronic 1, H410 | 4.0% |
| CAS: 13463-67-7 EINECS: 236-675-5 | titanium dioxide substance with a Community workplace exposure limit | 1.0% |

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:** Generally the product does not irritate the skin.

· **After eye contact:** Rinse opened eye for several minutes under running water.

· **After swallowing:** If symptoms persist consult doctor.

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

No further relevant information available.

· **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.

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

· **Hazardous combustion products:**

Carbon Oxides (COx)

Zinc oxides

· **5.3 Advice for firefighters**

· **Protective equipment:** No special measures required.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures** Not required.

· **6.2 Environmental precautions:**

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

· **6.3 Methods and material for containment and cleaning up:**

Dispose contaminated material as waste according to section 13.

· **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling** No special precautions are necessary if used correctly.

· **Information about fire - and explosion protection:** No special measures required.

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

· **Storage:**

· **Requirements to be met by storerooms and receptacles:** No special requirements.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:** None.

· **Storage class:** 11

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- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

| | |
|--|---|
| · Ingredients with limit values that require monitoring at the workplace: | |
| 13463-67-7 titanium dioxide | |
| WEL | Long-term value: 10* 4** mg/m ³ *total inhalable **respirable |

- **Additional information:** The lists valid during the making were used as basis.

· 8.2 Exposure controls

- **Appropriate engineering controls** No further data; see section 7.
- **Individual protection measures, such as personal protective equipment**
 - **General protective and hygienic measures:** Wash hands before breaks and at the end of work.
 - **Respiratory protection:** Not required.
 - **Hand protection**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

 - **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
 - **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
 - **Eye/face protection** Not required.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

- **Physical state** Solid
- **Form:** Grease
- **Colour:** Whitish
- **Odour:** Odourless
 - **Odour threshold:** Not determined.
- **Melting point/freezing point:** 185 °C
- **Boiling point or initial boiling point and boiling range** 371 °C
- **Flammability** Not determined.
- **Lower and upper explosion limit**
 - **Lower:** Not determined.
 - **Upper:** Not determined.
- **Flash point:** 185 °C

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| | |
|--|---|
| <ul style="list-style-type: none"> · Auto-ignition temperature: · Decomposition temperature: · pH · Viscosity: <ul style="list-style-type: none"> · Kinematic viscosity · Dynamic: · Solubility <ul style="list-style-type: none"> · water: · Partition coefficient n-octanol/water (log value) · Vapour pressure: · Relative density at 25 °C: · Vapour density (air=1): · Particle characteristics | <ul style="list-style-type: none"> Not determined Not determined. Not applicable. Not applicable. Not applicable. Soluble. Not determined. Not applicable. 0.89 Not applicable. See section 3. |
| <ul style="list-style-type: none"> · 9.2 Other information | |
| <ul style="list-style-type: none"> · 9.2.1 Information with regard to physical hazard classes · 9.2.2 Other safety characteristics <ul style="list-style-type: none"> · Evaporation rate · Ignition temperature: · Explosive properties: · Solvent content: <ul style="list-style-type: none"> · Solids content: | <ul style="list-style-type: none"> Not applicable Not applicable. Product is not selfigniting. Product does not present an explosion hazard. 100.0 % |

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
 - **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
 - **Acute toxicity** Based on available data, the classification criteria are not met.

| | | |
|--|------|---------------------|
| <ul style="list-style-type: none"> · LD/LC50 values relevant for classification: | | |
| 1314-13-2 zinc oxide | | |
| Oral | LD50 | 7,950 mg/kg (rat) |
| 13463-67-7 titanium dioxide | | |
| Oral | LD50 | >20,000 mg/kg (rat) |

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| | | |
|------------|----------|------------------------|
| Dermal | LD50 | >10,000 mg/kg (rabbit) |
| Inhalative | LC50/4 h | >6.82 mg/L (rat) |

- **Primary irritant effect:**
 - **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
 - **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
 - **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **Summary of Effects and Symptoms by Routes of Exposure**
 - **Eyes:**
 - may cause mild irritation
 - may cause redness
 - **Skin:** redness, may cause mild irritation
 - **Inhalation:** none known or expected
 - **Swallowed:**
 - Low toxicity:
 - nausea
 - diarrhea
 - abdominal pain
 - vomiting
 - **Subacute to chronic toxicity:**
 - **Delayed and immediate effects as well as chronic effects from short and long-term exposure**
No further relevant information available.

· **11.2 Information on other hazards**

| |
|--|
| · Endocrine disrupting properties |
| None of the ingredients is listed. |

SECTION 12: Ecological information

· **12.1 Toxicity**

| |
|-----------------------------|
| · Aquatic toxicity: |
| 1314-13-2 zinc oxide |
| LC50 0.042 mg/L (fish) |

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.

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· **12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

· **12.7 Other adverse effects**

· **Remark:** Toxic for fish

· **Additional ecological information:**

· **General notes:**

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **European waste catalogue**

| | |
|------|----------|
| HP14 | Ecotoxic |
|------|----------|

· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

· **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

· **14.1 UN number or ID number**

· **ADR, IMDG, IATA**

UN3077

· **14.2 UN proper shipping name**

· **ADR**

NOT REGULATED by road ADR Special Provision 375 for sizes 5 kg or less.

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc oxide)

· **IMDG**

NOT REGULATED for sea freight IMDG according to 2.10.2.7 for sizes up to 5 kg.

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc oxide)

· **IATA**

NOT REGULATED by Air IATA Special Provision A197 for sizes 5kg or less.

Environmentally hazardous substance, solid, n.o.s. (zinc oxide)

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| <p>· 14.3 Transport hazard class(es)</p> <p>· ADR, IMDG</p> | |
|  | <p>· Class 9 Miscellaneous dangerous substances and articles.</p> <p>· Label 9</p> |
| <p>· IATA</p> | |
|  | <p>· Class 9 Miscellaneous dangerous substances and articles.</p> <p>· Label 9</p> |
| <p>· 14.4 Packing group</p> <p>· ADR, IMDG, IATA III</p> | |
| <p>· 14.5 Environmental hazards:</p> <p>· Special marking (IATA): Symbol (fish and tree)</p> | |
| <p>· 14.6 Special precautions for user Not applicable.</p> <p>· Hazard identification number (Kemler code): 90</p> <p>· EMS Number: F-A,S-F</p> <p>· Stowage Category A</p> <p>· Stowage Code SW23 When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9.</p> | |
| <p>· 14.7 Maritime transport in bulk according to IMO instruments Not applicable.</p> | |
| <p>· Transport/Additional information:</p> | |
| <p>· ADR</p> <p>· Limited quantities (LQ) 5 kg</p> <p>· Excepted quantities (EQ) Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g</p> <p>· Transport category 3</p> <p>· Tunnel restriction code (-)</p> | |
| <p>· IMDG</p> <p>· Limited quantities (LQ) 5 kg</p> | |

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| | |
|----------------------------|--|
| · Excepted quantities (EQ) | Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g |
| · UN "Model Regulation": | UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC OXIDE), 9, III |

SECTION 15: Regulatory information

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

· **Poisons Act**

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|--|
| · Regulated explosives precursors (Part 1) |
| None of the ingredients is listed. |
| · Regulated poisons (Part 2) |
| None of the ingredients is listed. |
| · Reportable explosives precursors (Part 3) |
| None of the ingredients is listed. |
| · Reportable poisons (Part 4) |
| None of the ingredients is listed. |

· **Directive 2012/18/EU**

- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category E2** Hazardous to the Aquatic Environment
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t

| |
|---|
| · DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II |
| None of the ingredients is listed. |
| · Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3)) |
| None of the ingredients is listed. |
| · Annex II - REPORTABLE EXPLOSIVES PRECURSORS |
| None of the ingredients is listed. |
| · Regulation (EC) No 273/2004 on drug precursors |
| None of the ingredients is listed. |
| · Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors |
| None of the ingredients is listed. |

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**

- H400 Very toxic to aquatic life.

- H410 Very toxic to aquatic life with long lasting effects.

- **Classification according to Regulation (EC) No 1272/2008**

| | |
|---|--|
| Hazardous to the aquatic environment - long-term (chronic) aquatic hazard | The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008. |
|---|--|

- **Department issuing SDS:** Product safety department.

- **Contact:** sds@mgchemicals.com

- **Date of previous version:** 17.05.2024

- **Version number of previous version:** 4.00

- **Abbreviations and acronyms:**

- ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

- IMDG: International Maritime Code for Dangerous Goods

- IATA: International Air Transport Association

- GHS: Globally Harmonised System of Classification and Labelling of Chemicals

- EINECS: European Inventory of Existing Commercial Chemical Substances

- ELINCS: European List of Notified Chemical Substances

- CAS: Chemical Abstracts Service (division of the American Chemical Society)

- LC50: Lethal concentration, 50 percent

- LD50: Lethal dose, 50 percent

- PBT: Persistent, Bioaccumulative and Toxic

- vPvB: very Persistent and very Bioaccumulative

- ATE: Acute toxicity estimate values

- Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

- Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

- Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

- *** Data compared to the previous version altered.**