

## \* 1 Identification

### · Product identifier

#### · Trade name: 860

- **Other Means of Identification:** Silicone Heat Transfer Compound
- **Related Part Number:** 860, 860-4G, 860-60G, 860-150G, 860-1P, 860-3.78L, 860-5GPSW, 860-6KG

### · Relevant identified uses of the substance or mixture and uses advised against

#### · Application of the substance / the mixture

- Heat transfer compound
- Heat transfer compound

### · 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

Mektronics Australia Pty Ltd  
5 Prince William Drive  
Seven Hills  
NSW 2147  
Australia  
1300 788 701  
www.mektronics.com.au  
sales@mektronics.com.au

#### · Further information obtainable from: sds@mgchemicals.com

#### · Emergency telephone number:

Verisk 3E (Access Code: 335388)  
+61 1 800 686 951  
+61 280363166

## \* 2 Hazard(s) Identification

### · Classification of the substance or mixture

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

### · Label elements

#### · GHS label elements

The product is classified and labelled according to the Globally Harmonised System (GHS).

#### · Hazard pictograms



GHS09

#### · Signal word Warning

#### · Hazard statements

H410 Very toxic to aquatic life with long lasting effects.

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- **Precautionary statements**
  - P102 Keep out of reach of children.
  - P273 Avoid release to the environment.
  - P391 Collect spillage.
  - P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Other hazards**
  - **Results of PBT and vPvB assessment**
    - **PBT:** Not applicable
    - **vPvB:** Not applicable

## \* 3 Composition and Information on Ingredients

- **Chemical characterisation: Mixtures**
  - **Description:** Mixture of substances listed below with nonhazardous additions.

· <b>Dangerous components:</b>			
1314-13-2	zinc oxide	 Aquatic Chronic 1, H410	70.0%
112945-52-5	amorphous fumed silica		3.0%

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

## \* 4 First Aid Measures

- **After inhalation:**
  - Remove person to fresh air and keep comfortable for breathing.
  - If feeling unwell: Call a POISON CENTRE or doctor.
- **After skin contact:**
  - Generally the product does not irritate the skin.
  - Wash with plenty of water or shower.
  - Take off contaminated clothing and wash it before reuse.
- **After eye contact:**
  - Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - If symptoms persist consult doctor.
- **After swallowing:**
  - Rinse mouth.
  - Do NOT induce vomiting.
  - If symptoms persist consult doctor.
- **Information for doctor:**
  - **Most important symptoms and effects, both acute and delayed**
    - If exposed to metal fumes, chills and fever-like symptoms may occur 4-12 hours after exposure.
  - **Indication of any immediate medical attention and special treatment needed**
    - No further relevant information available.

## \* 5 Fire Fighting Measures

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

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

Not flammable or combustible, but burns if involved in a fire. Produces irritating smoke of unknown toxicity in fires.

Prevent fire-fighting wash from entering waterway or sewer system.

Inhalation of metal fumes may cause metal fever and irritate the respiratory tract.

The flu-like symptoms of metal fever may be delayed, occurring 4 to 12 hours after exposure.

**· Hazardous combustion products:**

Carbon Oxides (COx)

Zinc oxides

formaldehyde

toxic metal fumes

**· Protective equipment:** Wear self-contained breathing apparatus and full fire-fighting turn-out gear.

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**\* 6 Accidental Release Measures****· Personal precautions, protective equipment and emergency procedures**

Avoid breathing fumes or dust.

Remove or keep away all sources of extreme heat or open flames.

**· Environmental precautions:**

Avoid release to the environment.

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

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

Not readily flowable.

Collect in a sealable, chemical-resistant container.

Wipe the residues with a paper towel and place dirty towels in container.

Use soap and water to remove the last traces of residue.

**· 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.

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**\* 7 Handling and Storage****· Handling:****· Precautions for safe handling**

Collect spillage.

Avoid breathing fumes or dust.

**· Information about fire - and explosion protection:** No special measures required.**· Storage:****· Requirements to be met by storerooms and receptacles:**

Keep in a dry and clean area, away from incompatible substances

**· Information about storage in one common storage facility:** Not required**· Further information about storage conditions:** None.**· Specific end use(s)** See section 1.2

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**\* 8 Exposure controls and personal protection**

· **Appropriate engineering controls** Keep airborne concentrations below exposure limits.

· **Ingredients with limit values that require monitoring at the workplace:**

**1314-13-2 zinc oxide**

WES	Short-term value: 10** mg/m <sup>3</sup> Long-term value: 10* 5** mg/m <sup>3</sup> *dust (inhalable dust) **fume
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· **Additional information:**

The lists valid during the making were used as basis.  
 Refer to the national or regional occupational exposure limit regulation for abbreviations and acronyms.

· **Personal protective equipment:**

· **General protective and hygienic measures:** Wash hands before breaks and at the end of work.

· **Respiratory protection:**

If the product is heated or worker has a known allergic reaction, consider using a full mask with organic vapor cartridge or with an independent air supply.  
 For over-exposures up to 10 x OEL of mist, vapors, and spray, wear respirator such as a half-mask respirator with organic vapor cartridges.  
 Above 10 x OEL, use a positive-pressure, air-supplied respirator or a self-contained breathing apparatus.  
 Advice should be sought from respiratory protection specialists.

· **Protection of hands:**

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.



Protective gloves: EN374

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
 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 protection:**

Not required



Wear safety glasses: EN 166

**\* 9 Physical and Chemical Properties**

· **Physical state** Solid

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· <b>Appearance:</b>	
· <b>Form:</b>	Pasty
· <b>Colour:</b>	White
· <b>Odour:</b>	Odourless
· <b>Odour threshold:</b>	Not determined
· <b>pH-value:</b>	Not applicable
· <b>Melting point/freezing point:</b>	Undetermined
· <b>Initial boiling point and boiling range:</b>	>300 °C
· <b>Flash point:</b>	260 °C
· <b>Flammability:</b>	Non flammable
· <b>Auto-ignition temperature:</b>	Not determined
· <b>Decomposition temperature:</b>	Not determined
· <b>Ignition temperature:</b>	Product is not selfigniting.
· <b>Explosive properties:</b>	Product does not present an explosion hazard.
· <b>Explosion limits:</b>	
· <b>Lower:</b>	Not applicable
· <b>Upper:</b>	Not applicable
· <b>Vapour pressure:</b>	Not applicable Not determined
· <b>Relative density at 25 °C:</b>	2.4
· <b>Vapor density (air=1):</b>	Not applicable
· <b>Evaporation rate</b>	Not applicable.
· <b>Solubility in / Miscibility with</b>	
· <b>water:</b>	Insoluble.
· <b>Partition coefficient: n-octanol/water:</b>	Not determined
· <b>Viscosity:</b>	
· <b>Dynamic:</b>	Not applicable
· <b>Kinematic:</b>	Not applicable
· <b>Solvent content:</b>	
· <b>Organic solvents:</b>	Not available
· <b>Solids content:</b>	100.0 %
· <b>Other information</b>	No further relevant information available.
· <b>Particle characteristics</b>	Not available

## \* 10 Stability and Reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability** Chemically stable at normal temperatures and pressures.
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.

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- **Hazardous decomposition products:**  
No dangerous decomposition products known.  
Hazardous combustion products: see section 5.

## \* 11 Toxicological Information

- **Information on toxicological effects**
  - **Acute toxicity** Based on available data, the classification criteria are not met.

· <b>LD/LC50 values relevant for classification:</b>		
<b>1314-13-2 zinc oxide</b>		
Oral	LD50	7,950 mg/kg (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:**  
redness  
may cause mild irritation
- **Skin:** redness, may cause mild irritation
- **Inhalation:**  
cough  
irritation of the respiratory tract  
Inhalation of fumes may cause metal fever and irritate the respiratory tract.  
The flu-like symptoms of metal fume fever may be delayed, occurring 4–12 hours after exposure.
- **Swallowed:**  
Low toxicity:  
abdominal pain  
diarrhea  
nausea  
vomiting
- **Interactive effects**
  - **Delayed and immediate effects as well as chronic effects from short and long-term exposure**  
No further relevant information available.

## \* 12 Ecological Information

- **Toxicity**
  - **Aquatic toxicity:**  
Very toxic to aquatic life with long lasting effect.  
Avoid release to the environment.  
Collect spillage.

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1314-13-2 zinc oxide	
LC50	0.042 mg/L (fish)

- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
  - **Bioaccumulative potential** No further relevant information available.
  - **Mobility in soil** No further relevant information available.
- **Ecotoxic effects:**
  - **Remark:** Very toxic for fish
- **Results of PBT and vPvB assessment**
  - **PBT:** Not applicable
  - **vPvB:** Not applicable
- **Other adverse effects** No further relevant information available.

**\* 13 Disposal considerations**

- **Waste treatment methods**
  - **Recommendation** This material and its container must be disposed of as hazardous waste.
- **Uncleaned packaging:**
  - **Recommendation:**  
Containers may still present a chemical hazard/ danger when empty.  
Dispose of contents in accordance with all local, regional, national, and international regulations.  
Where possible retain label warnings and SDS and observe all notices pertaining to the product.

**\* 14 Transport information**

· <b>UN-Number</b>	
· <b>ADG, IMDG, IATA</b>	UN3077
· <b>UN proper shipping name</b>	
· <b>ADG</b>	NOT REGULATED by road ADR Special Provision 375 for sizes 5 kg or less. ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc oxide)
· <b>IMDG</b>	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)
· <b>IATA</b>	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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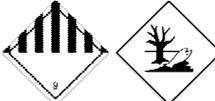
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<p>· <b>Transport hazard class(es)</b></p> <p>· <b>ADG, IMDG</b></p>  <p>· <b>Class</b> 9 Miscellaneous dangerous substances and articles. · <b>Label</b> 9</p>	
<p>· <b>IATA</b></p>  <p>· <b>Class</b> 9 Miscellaneous dangerous substances and articles. · <b>Label</b> 9</p>	
<p>· <b>Packing group</b></p> <p>· <b>ADG, IMDG, IATA</b> III</p>	
<p>· <b>Environmental hazards:</b></p> <p>· <b>Marine pollutant:</b> MARINE POLLUTANT</p> <p>· <b>Special marking (IATA):</b> ENVIRONMENTALLY HAZARDOUS Symbol (fish and tree)</p>	
<p>· <b>Special precautions for user</b> Not applicable</p> <p>· <b>Hazard identification number (Kemler code):</b> 90</p> <p>· <b>EMS Number:</b> F-A,S-F</p> <p>· <b>Stowage Category</b> A</p> <p>· <b>Stowage Code</b> SW23 When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9.</p>	
<p>· <b>Transport in bulk according to Annex II of Marpol and the IBC Code</b> Not applicable</p>	
<p>· <b>Transport/Additional information:</b></p> <p>· <b>ADG</b></p> <p>· <b>Limited quantities (LQ)</b> 5 kg</p> <p>· <b>Excepted quantities (EQ)</b> Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g</p> <p>· <b>Transport category</b> 3</p> <p>· <b>Tunnel restriction code</b> (-)</p>	
<p>· <b>IMDG</b></p> <p>· <b>Limited quantities (LQ)</b> 5 kg</p> <p>· <b>Excepted quantities (EQ)</b> Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g</p>	

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· <b>UN "Model Regulation":</b>	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC OXIDE), 9, III
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## 15 Regulatory information

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

· <b>Australian Inventory of Industrial Chemicals</b>
All ingredients are listed.
· <b>Standard for the Uniform Scheduling of Medicines and Poisons</b>
None of the ingredients is listed.
· <b>Australia: Priority Existing Chemicals</b>
None of the ingredients is listed.

- **Directive 2012/18/EU**
  - **Named dangerous substances - ANNEX I** None of the ingredients is listed.
  - **Seveso category E1** Hazardous to the Aquatic Environment
  - **Qualifying quantity (tonnes) for the application of lower-tier requirements** 100 t
  - **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t

## \* 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**
  - H410 Very toxic to aquatic life with long lasting effects.
- **Department issuing SDS:** Regulatory department
- **Contact:** sds@mgchemicals.com
  - **Date of previous version:** 05.06.2024
  - **Version number of previous version:** 2.02
- **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
  - 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
  - Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
- **\* Data compared to the previous version altered.**