

# Safety Data Sheet

## Section 1: Identification

Super Thermal Grease II 8616  
8616-4G, 8616-3ML, 8616-25ML, 8616-85ML, 8616-1P, 8616-1G

Thermal interface grease for improving heat flow between the CPU and heat sink  
Not available

MG Chemicals  
1210 Corporate Drive  
Burlington, Ontario L7L 5R6  
CANADA

MG Chemicals (Head Office)  
9347-193 Street  
Surrey, British Columbia V4N 4E7  
CANADA

☎ +1-800-340-0772  
+1-800-340-0773  
[support@mgchemicals.com](mailto:support@mgchemicals.com)  
[www.mgchemicals.com](http://www.mgchemicals.com)

☎ +1-905-331-1396  
+1-905-331-2682  
[info@mgchemicals.com](mailto:info@mgchemicals.com)


(Competent Person): [sds@mgchemicals.com](mailto:sds@mgchemicals.com)

—leaks, spills, fires, exposures or accidents  
USA or CANADA: Call CHEMTREC ☎: **+1-800-424-9300**  
; Collect 24/7  
CANADA: Call CANUTEC ☎: **+1-613-996-6666** or **\*666** on cellular phones

## Section 2: Hazard(s) Identification

Environmental Hazard	Chronic Aqua. Tox.	1	Warning	Environment
----------------------	--------------------	---	---------	-------------

*Note:* The degree of severity is ranked within each hazard class from 1 (Highest Severity) to up to 5 (Lowest Severity), which is opposite to HMIS and NFPA conventions. Severity category rankings do not allow comparisons between classes.

	H410: Very toxic to aquatic life with long lasting effects
P273	Avoid release to the environment.
P391	Collect spillage.
P501	Dispose of contents/container in accordance to local/regional/international regulations.

When the product is exposed to very high heat such as welding or when mechanically aerosolized, this may cause harmful zinc oxide and aluminum oxide fumes.

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. Repeated or prolonged exposure to aluminum oxide fumes may also lead to staining, pulmonary fibrosis (lung scarring), and pneumoconiosis (reaction to the deposition of dust in the lungs).

### Section 3: Composition/Information on Ingredients

1344-28-1	aluminum oxide	42%
1314-13-2	zinc oxide	37%

### Section 4: First-Aid Measures

<i>Exposure Condition</i>	<i>GHS Code/Symptoms/Precautionary Statements</i>
	<p>P305 + P351 + P338, P337 + P313</p> <p><i>mild irritation, redness, pain</i></p> <p>Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention</p>
	<p>P302 + P352, P332 + P313</p> <p><i>mild irritation</i></p> <p>Wash with plenty of water. If irritation occurs: Get medical advice/attention</p>
	<p>P304, P340, P312 (<i>Not a likely route of exposure under normal use</i>)</p> <p><i>none known</i></p> <p>Remove person to fresh air (out of the contaminated zone) and keep comfortable for breathing. If feeling unwell: Call a POISON CENTRE/doctor.</p>
	<p>P301, P330, P331, P312 (<i>Not a likely route of exposure under normal use</i>)</p> <p><i>none known</i></p> <p>Rinse mouth. Do NOT induce vomiting. If feeling unwell: Call a POISON CENTRE/doctor</p>

## Section 5: Fire-Fighting Measures

Use carbon dioxide, dry chemical, chemical foam, or water spray to extinguish. Use water spray to cool containers.

Toxic metal fumes may be released in fire. Prevent fire-fighting wash from entering waterway or sewer system.

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

Produces carbon oxides (CO, CO<sub>2</sub>), nitrogen oxides (NO<sub>x</sub>), aluminum oxides, boron oxides, toxic fumes, and smoke.

Wear self-contained breathing apparatus and full fire-fighting turn-out gear.

## Section 6: Accidental Release Measures

See personal protection recommendations in Section 8.

Avoid breathing the vapors/mist/fumes.

Avoid releasing to the environment. Prevent spill from entering drains and waterways.

None required

Collect paste in a sealable, solvent-resistant container. Sprinkle inert absorbent compound onto spill, then sweep into the container. Wipe up further residue with paper towel and place dirty towels in container. Wash spill area with soap and water to remove the last traces of residue.

Dispose of spill waste according to Section 13.

## Section 7: Handling and Storage

Avoid breathing fumes.

Do not eat, drink, or smoke when using this product.

Wear protective gloves/eye protection.

Wear neoprene, butyl rubber, nitrile or other impervious gloves with breakthrough time greater than intended use period.

Wash hands thoroughly after handling.

Store in well-ventilated place. Keep cool.

Store locked up.

## Section 8: Exposure Controls/Personal Protection

aluminum metal and insoluble compounds <sup>a)</sup>	ACGIH U.S.A. OSHA PEL Canada AB Canada BC Canada ON Canada QC	1 mg/m <sup>3</sup> 15 mg/m <sup>3</sup> 10 mg/m <sup>3</sup> 1 mg/m <sup>3</sup> 1 mg/m <sup>3</sup> 10 mg/m <sup>3</sup>	Not established Not established Not established Not established Not established Not established
zinc oxide (dust/mist)	ACGIH U.S.A. OSHA PEL Canada AB Canada BC Canada ON Canada QC	2 mg/m <sup>3</sup> 2 mg/m <sup>3</sup> 2 mg/m <sup>3</sup> 2 mg/m <sup>3</sup> 2 mg/m <sup>3</sup> 2 mg/m <sup>3</sup>	Not established 10 mg/m <sup>3</sup> 10 mg/m <sup>3</sup> 10 mg/m <sup>3</sup> 10 mg/m <sup>3</sup> 10 mg/m <sup>3</sup>
fumes dust	Canada QC Canada QC	2 mg/m <sup>3</sup> 10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup> Not established

*Note:* Ingredients are listed in descending weight contribution order (from greatest to least). The ACGIH<sup>1</sup>, OSHA (Table Z-1), and Canadian provinces exposure limits were consulted. Limits from by RTECS database<sup>2</sup> and data from suppliers' SDS were also consulted. Short term exposure limits (STEL) are for 15 min and long term permissible exposure limits (PEL) for 8 h.

a) Respirable airborne particles.

*Section continued on the next page*

Keep airborne concentrations below the occupational exposure limits (OEL).

Wear appropriate protective eyeglasses or chemical safety goggles.

Ensure that glasses have side shields for lateral protection.

For likely contacts, use of protective butyl rubber or other chemically resistant gloves.

In the unlikely event of exposure to mist, wear oil resistant or oil proof particulate respirators or filter masks.

Consult your local safety supply store to ensure your respirator or mask.

Wash hands thoroughly with water and soap after handling.

**Section 9: Physical and Chemical Properties**

	Solid	Not applicable
	White, grease	Not applicable
	Low odor	Not available
	Not available	Not available
	Not available	2.74
	Not available	<0.1%
	Not available	Not available
a)	>550 °C [>1022 °F]	Not available
	Not available	Not available
	Not available	1 000 000 mm <sup>2</sup> /s

a) Based on synthetic oil component Cleveland open cup value

**Section 10: Stability and Reactivity**

Not available

Chemically stable at normal temperatures and pressures

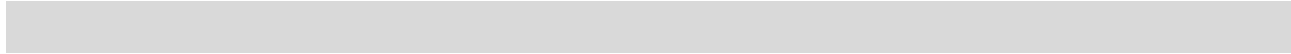
Ignition sources, open flames, excessive heat, and incompatible substances

Halogenated compounds, strong oxidizing agents, strong acids, strong bases

Will not occur

Will not decompose under normal conditions. For thermal decomposition, see combustion products in Section 5.

**Section 11: Toxicological Information**



Eye contact, Skin contact, Inhalation, and Ingestion

May cause mild eye irritation, redness or pain. The aluminum oxide and zinc oxide are mechanically abrasive.

May causes mild skin irritation.

Fumes or gases from product when heated to extreme temperatures can cause metal fume fever and toxic gas emissions.

No acute toxicity effect known. May cause irritation.

Prolonged or repeated inhalation exposure to aluminum oxide particles may lead to lung scarring and reaction to dust deposition in the lungs.



aluminum oxide	Not available	Not available	Not available
zinc oxide	7 950 mg/kg Rat	Not established	2 500 mg/m <sup>3</sup> Mouse

*Note:* Toxicity data from the RTECS database accessed through the Canadian Centre for Occupational Health and Safety (CCOHS)<sup>2</sup> were consulted. The data from supplier (M)SDS were also consulted.



	Based on available data, the classification criteria are not met.
	Based on available data, the classification criteria are not met.
(allergic reactions)	Based on available data, the classification criteria are not met.
(risk of cancer)	Not classified or listed as a carcinogen by IARC, ACGIH, CA Prop 65, or NTP.

*Section continued on the next page*



(risk of heritable genetic effects)	Based on available data, the classification criteria are not met.
(risk to sex functions)	Based on available data, the classification criteria are not met.
(risk of fetus malformation)	Based on available data, the classification criteria are not met.
	Based on available data, the classification criteria are not met.
	Based on available data, the classification criteria are not met.
	Based on available data, the classification criteria are not met. There is less than 10% category 1 components.

## Section 12: Ecological Information

Ecological classifications are based on the IMDG/GHS criteria in conjunction with ecotoxicological data from our suppliers, the European Chemical Agency database (<http://echa.europa.eu>), and other reliable sources.

Contains zinc oxide which is an acute and chronic category 1 solid (non-biodegradable, minimal LC50 of 0.042 mg/L) that is harmful to the environment.

The synthetic is reported by the supplier to be a Category 4 chronic aquatic toxicant.

### Category 1

Very toxic to aquatic life

### Category 1

Very toxic to aquatic life with long lasting effects.

Avoid release to the environment. Collect spillage.

Not readily biodegradable

Regulated Volatile Organic Content (VOC) = 18% (485 g/L)



**Section 13: Disposal Information**

Dispose of contents in accordance with all local, regional, national, and international regulations.

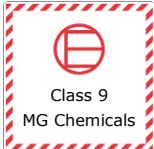

**Section 14: Transport Information**



(Canadian Transportation of Dangerous Goods regulations);  
(Parts 100 to 185).



<p>Sizes 5 kg and under</p> 	<p>Sizes greater than 5 kg</p> <p style="text-align: center;">: UN3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc oxide) 9</p> <p style="text-align: center;">: III Yes</p> 
---	---



<p>Sizes 30 g and under</p> <p>Document as class Refer to Package Mark 2.6.7.1 in for further instruction</p> 	<p>Sizes greater than 30 g up to 30 kg</p> <p style="text-align: center;">: UN3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc oxide) 9</p> <p style="text-align: center;">: III Yes</p> 
---	---

*Section continued on the next page*



<p>Sizes 5 kg and under</p> 	<p>Sizes greater than 5 kg</p> <p>: UN3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc oxide) 9</p> <p>: III Yes</p> 
---	---

Note: \_\_\_\_\_

**Section 15: Regulatory Information**



Not classified as hazardous under WHMIS

All hazardous ingredients are listed on the DSL/NDSL.

MG Labels products intended for the workplace to conform to WHMIS labeling regulations. Product identification, net quantity declaration, minimum printing type size heights, and packaging of this product are in compliance.

Products produced by MG Chemicals intended for retail display conform to the Canadian Consumer Labeling Regulations.

*Section continued on the next page*





Contact us regarding any questions, improvement suggestions, or problems with this product. Application notes, instructions, and FAQs are located at [www.mgchemicals.com](http://www.mgchemicals.com).

Email: [support@mgchemicals.com](mailto:support@mgchemicals.com)

*Manufacturing & Support*  
1210 Corporate Drive  
Burlington, Ontario, Canada  
L7L 5R6

*Head Office*  
9347-193rd Street  
Surrey, British Columbia, Canada  
V4N 4E7

This material safety data sheet is provided as an information resource only. *M.G. Chemicals, Ltd.* believes the information contained herein is accurate and compiled from reliable sources. It is the responsibility of the user to query and verify any information seeming suspect where doubt on the validity may exist. The buyer assumes all responsibility of using and handling the product in accordance with local, regional, national, and international regulations.