

# SAFETY DATA SHEET

## SECTION 1: Identification of the substance and company undertaking

**1.1 Product name:** TP-1 Thermal Paste

**1.2 Relevant identified uses of the substance and uses advised against**

**Product Restrictions:** Not applicable

### 1.3 Manufacturer Details

**Manufacturer Part Number:** 52022  
**Manufacturer:** AOS Thermal Compounds  
**Address:** 22 Meridian Rd. #6  
Eatontown, NJ 07724  
USA  
Tel: 732-389-5514

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## SECTION 2: Hazard Identification

### 2.1 Classification of the substance or mixture

#### 2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]

**GHS Class Phrases:** Hazardous to the aquatic environment, short term, acute, category 1  
Hazardous to the aquatic environment, long term, chronic, category 1



**Signal Word:** Warning

**Hazard Statements:** H400 - Very toxic to aquatic life  
H410 - Very toxic to aquatic life with long last effects

**Precautionary Statement:** P273 - Avoid release to the environment  
P391 - Collect spillage  
P501 - Dispose of contents/container in accordance with local, state, federal and provincial regulations

**2.2 Other Hazards:** None

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**SECTION 3: Composition/information on ingredients**
**3.1 Mixtures**

<b>Zinc Oxide</b>	<b>CAS# 1314-13-2</b>	<b>0 – 90%</b>
	H315, H319, H400, H410	
	Skin Irritation, category 2; Eye Irritation, category 2	
	Hazardous to the aquatic environment, short term, acute, category 1	
	Hazardous to the aquatic environment, long term, chronic, category 1	
<b>Proprietary</b>	<b>No Data</b>	<b>0-10%</b>
<b>Magnesium Oxide</b>	<b>CAS# 1309-48-4</b>	<b>0-90%</b>
<b>Aluminum Nitride</b>	<b>CAS# 24304-00-5</b>	<b>0-90%</b>
<b>Aluminum Powder</b>	<b>CAS# 7429-90-5</b>	<b>0-90%</b>
<b>Aluminum Oxide</b>	<b>CAS# 1344-28-1</b>	<b>0-90%</b>
<b>Boron Nitride</b>	<b>CAS# 10043-11-5</b>	<b>0-90%</b>

**Zinc Oxide Comment:** Skin and Eye irritation warnings are applicable to the loose powder form only and do not apply to this product

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**SECTION 4: First Aid Measures****4.1 Description of First Aid Measures**

<b>Eye Contact:</b>	Immediately flush eyes with water for 15 to 20 minutes. Get medical attention if irritation or symptoms of overexposure persist.
<b>Skin Contact:</b>	Immediately wash skin with soap and water. Get medical attention if irritation develops or persists.
<b>Inhalation:</b>	If inhaled remove to fresh air. If not breathing give artificial respiration or oxygen by a trained personnel. Seek immediate medical attention.
<b>Ingestion:</b>	If swallowed do not induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

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

**Other First Aid:** Exposure to soldering fumes and vapors may be irritation to the eyes, respiratory system, and skin.

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

**Note to Physicians:** none

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**SECTION 5: Fire Fighting Measures****5.1 Extinguishing Media**

**Extinguishing Media:** Foam, carbon dioxide, dry chemical, water fog or spray.

**Unsuitable Media:** Not determined

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

**Unusual Fire Hazards:** None known

**5.3 Advice for firefighters**

**Fire Fighting Instructions:** Evacuate area of unprotected personnel. Use cold water spray to cool fire exposed containers to minimize risk of rupture. Do not enter confined fire space without full protective gear. If possible, contain fire run-off water.

**Protective Equipment:** As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear.

**NFPA Fire:** 0

**NFPA Health:** 1

**NFPA Reactivity:** 0

**SECTION 6: Accidental Release Measures****6.1 Personal precautions, protective equipment, and emergency procedures**

**Personal Precautions:** Do not ingest. Use proper personal protective equipment as listed in Section 8, wear gloves.

**6.2 Environmental precautions**

**Environmental Precautions:** Avoid run-off into storm sewers, ditches, and waterways

**6.3 Methods and materials for containment and cleaning up**

**Methods for Containment:** Collect product and repackage in a container.

**Methods for Cleanup:** Use common solvents such as mineral spirits, acetone or isopropyl alcohol. Provide ventilation. After removal, flush spill area with soap and water to remove trace residue.

**6.4 Reference to other sections**

**Other Spill Precautions:** See section 13 for disposal information

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## SECTION 7: Handling and Storage

### 7.1 Precautions for safe handling

**Handling:** Use with adequate ventilation. Avoid breathing vapor and contact with eyes, skin, and clothing.

**Hygiene Practices:** Wash thoroughly after handling. Avoid contact with eyes and skin.

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

**Storage:** Store in a cool, dry, well ventilated area away from heat sources, combustible materials, and incompatible substances. Keep container tightly closed when not in use.

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## SECTION 8: Exposure Controls, Personal Protection

**Engineering Controls:** Safety Glasses and Gloves are recommended for hygienic practice.

**Ventilation:** Under normal conditions no special ventilation is needed.

**Eye Protection:** Safety glasses are not necessary.

**Skin Protection:** Gloves are not necessary.

**Hygiene Practices:** Wash thoroughly after handling. Avoid contact with eyes and skin.

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## SECTION 9: Physical and Chemical Properties

**Physical State:** Paste  
**Color:** White, off-white, or grey  
**Odor:** Odorless  
**pH:** Not determined  
**Melting Temperature:** Not determined  
**Boiling Temperature:** >400 °F / >204 °C  
**Flash Point:** Not determined  
**Ignition Temperature:** Not determined  
**Lower Flammable Limit:** Not determined  
**Upper Flammable Limit:** Not determined  
**Vapor Pressure:** Not determined  
**Vapor Density:** Not determined  
**Solubility:** Insoluble

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<b>Specific Gravity:</b>	2.2 – 3.0 (H <sub>2</sub> O = 1)
<b>Evaporation Rate:</b>	< 0.01 (butyl acetate = 1)
<b>Partition Coefficient:</b>	Not determined
<b>Percent Volatile:</b>	Not determined
<b>VOC Content:</b>	Not determined
<b>Viscosity:</b>	100,000 – 1,500,000 cP at 1 sec <sup>-1</sup> shear at 25 °C
<b>Odor Threshold:</b>	Not determined
<b>Oxidizing Properties:</b>	Not an oxidizer
<b>Explosive Properties:</b>	Not determined

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## SECTION 10: Stability and Reactivity

<b>Reactivity:</b>	No data available
<b>Chemical Stability:</b>	Stable under recommended handling and storage conditions
<b>Hazardous Polymerization:</b>	Will not occur
<b>Conditions to Avoid:</b>	Heat, flames, and sparks
<b>Incompatible Materials:</b>	Oxidizing agents
<b>Hazardous Decomposition:</b>	Toxic gases such as ZnO fumes may be released in a fire

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## SECTION 11: Toxicological Information

### 11.1 Information on toxicological effects

<b>Pre-Existing Conditions:</b>	None generally recognized
<b>Aggravated by Exposure:</b>	None generally recognized
<b>Acute Inhalation Effects:</b>	May be harmful if inhaled
<b>Acute Skin Effects:</b>	May cause skin irritation
<b>Acute Ingestion Effects:</b>	May be harmful if ingested
<b>Acute Eye Effects:</b>	May cause eye irritation
<b>Zinc Oxide Eye Toxicity:</b>	Administration into the eye – Rabbit Standard Draize test: 500mg/24H [Mild] (RTECS)

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**SECTION 12: Ecological Information****12.1 Ecotoxicity**

**Ecotoxicity:** Harmful to aquatic organisms, may cause long term effects in the aquatic environment.

**Environmental Stability:** No data available for this product.

**12.3 Bio-accumulative potential**

**Bio-accumulation:** No data available for this product.

**12.4 Mobility in soil**

**Mobility in environmental media:** No data available for this product

**SECTION 13: Disposal Information****13.1 Waste treatment methods:**

**Waste disposal:** Incinerate or dispose of materials in accordance with local, state & federal regulations

**SECTION 14: Transport Information**

**DOT Shipping Name:** Not regulated as hazardous material for transportation  
**DOT UN Number:** Not regulated as hazardous material for transportation  
**IMDG Shipping Name:** Environmentally hazardous substance, solid, n.o.s (ZnO)  
**IMDG UN Number:** UN3077  
**IMDG Hazard Class:** 9  
**IMDG Packing Group:** III  
**IATA Shipping Name:** Environmentally hazardous substance, solid, n.o.s (ZnO)  
**IATA UN Number:** UN3077  
**IATA Hazard Class:** III  
**IATA Sub-risk:** 9  
**RID/ADR Shipping Name:** Environmentally hazardous substance, solid, n.o.s. (ZnO)  
**RID/ADR UN Number:** UN3077  
**RID/ADR Hazard Class:** 9  
**RID/ADR Packing Group:** III

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**SECTION 15: Regulatory Information****15.1 Safety, health, and environmental regulations/legislation specific for the substance****Regulatory – Product Based****SARA:** Listed, Zinc Compounds**Regulatory – Ingredient Based****Zinc Oxide:**

<b>Canada DSL:</b>	Listed
<b>TSCA Inventory Status:</b>	Listed
<b>EC Number:</b>	215-222-5

**SECTION 16: Other Information****Revision Date:** July 15, 2019**Author:** AOS Thermal Compounds

**Disclaimer:** The information herein is presented in good faith and believed to be accurate as of the revision date shown above. However, no warranty, expressed or implied is given. It is the buyer's responsibility to ensure that its activities comply with local, state, federal and provincial laws. Additionally, AOS Thermal Compounds assumes no responsibility for injury to the end user, who assumes the risk in the use of this material.

**HMIS:**

Health	1
Flammability	0
Reactivity	0
PPE	X

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