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MSDS-0111
OT-201
Rev. Date 08/04/11
Supersedes: 02/08/08

SECTION 14. TRANSPORTATION INFORMATION

This section provided for general information only. The shipping description below may not represent requirements for all modes of transportation, packaging, shipping methods or locations outside the United States.

FOR MORE COMPLETE TRANSPORTATION REGULATORY INFORMATION PLEASE REFER TO THE SHIPPING DOCUMENTS ACCOMPANYING THE SHIPMENT OF THIS PRODUCT.

DOT CLASSIFICATION: Not Regulated

The information provided herein may not include the impact of additional regulatory requirements (eg. for materials meeting the definition of a hazardous waste under RCRA, hazardous substances under CERCLA, and/or marine pollutants under CWA or other similar federal, state, or local laws) or any associated exceptions or exemptions under regulations applicable to the transport of the material.

SECTION 15. REGULATORY INFORMATION

TSCA: All components are on the TSCA inventory.
Canadian Domestic Substance List (DSL) Is on DSL
China (IECSC) On the IECSC Inventory
Philippines (PICCS) On the PICCS Inventory

SARA -Section 313 (Superfund Amendments and Reauthorization Act of 1986 - 40CFR 372) **CAS NUMBER**

Aluminum Oxide 134-28-1
Zinc Compound (SARA 313 Chemical Category Code N982) 1314-131-2

CALIFORNIA PROPOSITION 65

WARNING: This product contains the following chemicals that are know to the State of California to cause cancer, birth defects or other reproductive harm. Unless a concentration is specified in Section 2 of the MSDS, the below chemical/s are present in trace amounts.

COMPONENT	CAS NUMBER
Cadmium	7440-43-9
Lead	7439-92-1

SECTION 16. OTHER INFORMATION

HMIS® HAZARD RATINGS: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risk. Although HMIS® ratings are not required on MSDSs by OSHA's 29 CFR 1910.1200, we choose to provide them as a service to our customers using HMIS®. These ratings are to be used only with a fully implemented HMIS® program. To deal adequately with the safe handling of this material, all the information contained in this MSDS must be considered.

NPCA recommends that employers must determine appropriate PPE for the actual conditions under which this product is used in their workplace. For information on PPE codes, consult the HMIS® Implementation Manual.

When 2 ratings are provided for Health, the first represents the material "as supplied", and the second represents the material "in use". * = chronic health hazard

HMIS® is a registered trademark of the National Paint and Coatings Association (NPCA)

Health /1	Flammability 1	Physical Hazard 0

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SECTION 1. IDENTIFICATION

PRODUCT (TRADE) NAME: OMEGATHERM® 201 Thermal Conducting Paste

GENERIC NAME/FAMILY: Silicone Compound

SUPPLIER: OMEGA Engineering, Inc.
ADDRESS: P. O. Box 4047
Stamford, CT 06907

TELEPHONE: (203) 359-1660

SHIPPING INFORMATION: DOT/IATA: Non-regulated

SECTION 2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW CAUTION - SKIN IRRITANT - White Paste No Odor

EYE: May cause eye irritation
SKIN CONTACT: Repeat or prolonged skin contact may result in moderate irritation.
INHALATION: Vapors and/or aerosols which may be formed at elevated temperatures may be irritating to eyes and respiratory tract
INGESTION: May cause nausea and vomiting.

SECTION 3. INGREDIENTS

COMPONENT:	CAS NUMBER	CONCENTRATION (% by weight)
Aluminum Oxide	1344-28-1	>50
Zinc Oxide	1314-13-2	5-10

SECTION 4. FIRST AID MEASURES

EYE: Immediately irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 10 minutes.

SKIN CONTACT: Wash skin with soap and water. If symptoms develop, obtain medical attention.

INHALATION: Remove to fresh air. Administer oxygen to aid in breathing. Get medical attention.

INGESTION: If victim is conscious, give water to dilute stomach contents. Get prompt medical attention.

SECTION 5. FIREFIGHTING MEASURES

AUTOIGNITION: Not Available

FLASH POINT: > 200°F

EXTINGUISHING MEDIA: Water Fog; CO₂; Dry Chemical

SPECIAL FIREFIGHTING PROCEDURES: Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes. Cool exposed equipment with water spray.

FIRE AND EXPLOSION HAZARDS: Combustible at high temperatures.

HAZARDOUS COMBUSTION PRODUCTS: Silicon dioxide, carbon dioxide and unknown carbon products. Formaldehyde

LOWER EXPLOSIVE LIMIT (%): Not Determined

UPPER EXPLOSIVE LIMIT (%): Not Determined



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SECTION 6. ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK PROCEDURES: Evacuate immediate area and dike area to contain spill. Extinguish open flames and ignition sources in the immediate area. Wear proper protective clothing, gloves, and splash goggles. Absorb as much of spilled material as possible with rags, sand, vermiculite or other absorbent material. Scrape absorbed material into designated waste containers. Wash area thoroughly with detergent and rinse, taking care to prevent runoff into drains or other waterways. All spilled material, absorbed waste and wash water must be disposed of in accordance with all Federal, state and local regulations.

For safety and environmental precautions, please review entire Material Safety Data Sheet for necessary information.

SECTION 7. HANDLING AND STORAGE

STORAGE TEMPERATURE: 25°C **SHELF LIFE (days):** 365
HANDLING/STORAGE: Keep containers properly sealed and store indoors in a well ventilated area. Keep away from heat and sources of ignition.
SENSITIVITY TO STATIC ELECTRICITY: No **SPECIAL SENSITIVITY:** No
SENSITIVITY TO MECHANICAL IMPACT: No

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

COMPONENT:	Exposure Limits	OSHA	Mfg. Working Standard
Aluminum Oxide	19mg/m3 PEL (total dust); 5 mg/m3 PEL (respirable fraction listed under Particulates not otherwise regulated)	15 mppcf TWA (respirable fraction); 50 mppcf TWA (total dust);	Manufacturer 6 mg/m3
Zinc Oxide	10 mg/m3 STEL (respirable fraction); 2 mg/m3 TWA (respirable fraction)	5 mg/m3 TWA (fume); 15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)	

VENTILATION REQUIREMENTS: Local mechanical ventilation. Sufficient to keep vapors below TLV exposure limits.

EYE PROTECTION REQUIREMENTS: Chemical safety glasses

GLOVE REQUIREMENTS: Butyl or natural rubber gloves are recommended.

CLOTHING REQUIREMENTS: Wear protective equipment to comply with good occupational hygiene practice. Wear close fitting goggles or full face shield. Wear suitable gloves or gauntlets. Neoprene or natural rubber is recommended.

CHANGE/REMOVAL OF CLOTHING: Remove contaminated clothing and launder before reuse.

WASH REQUIREMENTS: Showers and eye washing equipment must be provided at handling points.

RESPIRATOR REQUIREMENTS: Respiratory protection required if the exposure level is unknown or has been measured and found to exceed the published exposure limits.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

PURE SUBSTANCE OR MIXTURE: Mixture
PHYSICAL FORM: Paste
COLOR: White
ODOR: No
ODOR THRESHOLD: Not Available
OXIDIZING PROPERTIES: Not Applicable
SOLUBILITY IN WATER: Insoluble
PARTITION COEFFICIENT (n-octanol/water): Not Determined
SPECIFIC GRAVITY (water=1): 2.53
EVAPORATION RATE: Not Applicable



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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES (CONT'D)

VAPOR PRESSURE (mmHg): Negligible
VAPOR DENSITY (air=1): Not Applicable
VOLATILES: Negligible
VOLATILES ORGANIC COMPOUNDS: Nil
AUTOIGNITION: Not Available
FLASH POINT: > 200°F

SECTION 10. STABILITY AND REACTIVITY

STABILITY: Stable

STABILITY DETAIL: Material is stable under normal temperatures and pressures.

MATERIALS TO AVOID: Strong oxidizers, Acids, Bases

CONDITIONS TO AVOID: When heated to very high temperatures, material may emit toxic or irritating fumes

HAZARDOUS DECOMPOSITION PRODUCTS: Silicon dioxide, carbon dioxide and unknown carbon products. Formaldehyde

SECTION 11. TOXICOLOGICAL INFORMATION

ROUTE OF ENTRY: Eye contact. Skin contact. Inhalation; Ingestion

CARCINOGEN IARC (group) NTP OSHA Substance Specific Regulation
COMPONENT: There is no evidence that this product poses a carcinogenic risk under normal conditions of handling and use.

CHRONIC (long term) EFFECTS OF EXPOSURE: TARGET ORGANS Skin

PRODUCT TOXICOLOGY

PRODUCT INFORMATION: This data sheet is based on a consideration of the properties of the constituents. May cause irritation to the skin, eyes, and respiratory system.

COMPONENT	ORAL TOXICITY	NOTES ON ORAL TOXICITY
Aluminum Oxide		No hazard in normal industrial use. Ingestion can cause irritation of the gastrointestinal tract. Non-toxic
COMPONENT	DERMAL TOXICITY	NOTES ON DERMAL TOXICITY
Aluminum Oxide		Slight /mild irritant.
COMPONENT	INHALATION TOXICITY	NOTES ON INHALATION TOXICITY
Aluminum Oxide		Dust may cause irritation
COMPONENT	NOTES ON EYE IRRITATION	
Aluminum Oxide		Slight/mild irritant. Particulates may scratch eye surfaces and cause mechanical irritation

SECTION 12. ECOLOGICAL INFORMATION

POTENTIAL EFFECT ON ENVIRONMENT: Unknown
POTENTIAL TO BIOACCUMULATE: Unknown
ECOTOXICITY: Very toxic to aquatic organisms.
ACQUATIC TOXICITY: None Established

SECTION 13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS: Disposal should be in accordance with local, state or national legislation.

EMPTY CONTAINER WARNINGS: Empty containers may contain product residue; follow MSDS and label warnings even after containers have been emptied.