

Date Issued: 05/16/2005 MSDS No: 1978 Date Revised: 11/16/2011 Revision No: 5

## Silicone-free Heat Sink Compound

## **1. PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME:** Silicone-free Heat Sink Compound **PRODUCT DESCRIPTION:** Silicone-free Heat Sink Compound **PRODUCT CODE:** 1978-1, 1978-DP

#### MANUFACTURER

#### 24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC CCN#21858 (US Transportation) :(800) 424 - 9300 CANUTEC (Canadian Transportation) :(613) 996 - 6666 Emergency Phone :(800) 858 - 4043

Techspray, L.P. 1001 N.W. 1st Street P.O. Box 949 Amarillo, TX 79107 Emergency Contact: Chemtrec Emergency Phone: 1-800-858-4043 Service Number: 1-800-858-4043

## 2. HAZARDS IDENTIFICATION

#### HAZARD DESIGNATION

#### **EMERGENCY OVERVIEW**

PHYSICAL APPEARANCE: Odorless white paste

### POTENTIAL HEALTH EFFECTS

EYES: Avoid contact with eyes; may cause redness, irritation and conjunctivitis.

SKIN: Prolonged or repeated contact may cause skin irritation.

SKIN ABSORPTION: None Expected.

**INGESTION:** Not yet Determined

**INHALATION:** Not yet Determined

#### SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Symptoms of overexposure include: stinging, tearing, redness and pain.

**SKIN:** Prolonged or exposure may cause skin irritation.

SKIN ABSORPTION: None Expected.

**INGESTION:** Ingestion may result in diarhea and/or nausea.

**INHALATION:** None Expected.

ACUTE TOXICITY: Low hazard for usual industrial or commercial handling.

CHRONIC EFFECTS: Frequent or prolonged contact may irritate the skin and cause a skin rash (dermatitis).

## **CARCINOGENICITY:** NOT listed

MUTAGENICITY: Not yet Determined

## **REPRODUCTIVE TOXICITY**

**REPRODUCTIVE EFFECTS:** NOT listed

TERATOGENIC EFFECTS: Not yet Determined

**CANCER STATEMENT:** NOT listed

**COMMENTS:** Zinc oxide component (USP) is in paste form and does not exhibit a dust hazard.



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## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Zinc oxide	< 70	1314-13-2
NJ Trade Secret Reg. #00840600-5000P	15 - 20	
NJ Trade Secret Reg. #00840600-5001P	10 - 15	
NJ Trade Secret Reg. #00840600-5002P	3 - 5	

## 4. FIRST AID MEASURES

**EYES:** Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

**SKIN:** Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

**INGESTION:** If swallowed, do not induce vomiting. If conscious and alert, give two glasses of water. Seek medical attention.

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

#### **5. FIRE FIGHTING MEASURES**

**FLASHPOINT AND METHOD:** 296°C (565°F)

FLAMMABLE LIMITS: Not Determined to Not Determined

AUTOIGNITION TEMPERATURE: Not Available

**EXTINGUISHING MEDIA:** Water, foam, dry chemical, carbon dioxide.

**EXPLOSION HAZARDS:** None Expected.

FIRE FIGHTING PROCEDURES: Evacuate area and fight fire from a safe distance.

**FIRE FIGHTING EQUIPMENT:** As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

HAZARDOUS DECOMPOSITION PRODUCTS: None Expected.

#### 6. ACCIDENTAL RELEASE MEASURES

LARGE SPILL: Clean up spills immediately, observing precautions in Protective Equipment section.

**GENERAL PROCEDURES:** Vacuum or sweep up material and place in a disposal container.

**RELEASE NOTES:** Spills and releases may have to be reported to Federal and/or local authorities.

**SPECIAL PROTECTIVE EQUIPMENT:** Only personnel equipped with proper respiratory and skin/eye protection should be permitted in area. See Section 8 for details.

### 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** Wash thoroughly after handling. Use only in a well ventilated area. Follow all MSDS/label precautions even after container is emptied because they may retain product residues. Store in a cool dry place.

**STORAGE TEMPERATURE:** Store in adequate storage area at ambient temp.



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STORAGE PRESSURE: Store at local atomspheric pressure.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

## PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

**SKIN:** Not Applicable

**RESPIRATORY:** Not Applicable

WORK HYGIENIC PRACTICES: Avoid contact with eyes. Avoid fume inhalation. Limit skin contact.

**OTHER USE PRECAUTIONS:** Emergency shower and eyewash facility should be in close proximity.

**COMMENTS:** This material is in paste form; zinc oxide does not pose a dust hazard.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Semisolid ODOR: None APPEARANCE: Gray Solid with low odor pH: NA = Not Applicable PERCENT VOLATILE: Not Established VAPOR PRESSURE: < 0.1 mmHg VAPOR DENSITY: Not Applicable BOILING POINT: > 204°C (400°F) FREEZING POINT: Not Applicable FLASHPOINT AND METHOD: 296°C (565°F) SOLUBILITY IN WATER: Insoluble EVAPORATION RATE: < 0.01 (n-Butyl Acetate=1) SPECIFIC GRAVITY: 2.700 (water=1) VISCOSITY: Not Available (VOC): Exempt due to vapor pressure.

## **10. STABILITY AND REACTIVITY**

STABILITY: Stable under normal conditions.
POLYMERIZATION: Will not occur.
HAZARDOUS DECOMPOSITION PRODUCTS: None known.
INCOMPATIBLE MATERIALS: Oxidizing materials.

## **11. TOXICOLOGICAL INFORMATION**

**EYE EFFECTS:** No data available. Contact Env. Dept. **SKIN EFFECTS:** No data available. Contact Env. Dept.

## **12. ECOLOGICAL INFORMATION**



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**ENVIRONMENTAL DATA:** No data available. Contact Env. Dept. **ECOTOXICOLOGICAL INFORMATION:** Not Applicable

## **13. DISPOSAL CONSIDERATIONS**

**DISPOSAL METHOD:** Federal, State, and Local laws governing disposal of materials can differ. Ensure compliance with proper authorities before disposal.

#### **14. TRANSPORT INFORMATION**

DOT (DEPARTMENT OF TRANSPORTATION)

**PROPER SHIPPING NAME:** Nonhazardous

## ROAD AND RAIL (ADR/RID)

HAZARD CLASS: Not Regulated

## AIR (ICAO/IATA)

SHIPPING NAME: Nonhazardous

## VESSEL (IMO/IMDG)

SHIPPING NAME: Nonhazardous

## **15. REGULATORY INFORMATION**

## UNITED STATES

## SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: NOT listed

FIRE: No PRESSURE GENERATING: No REACTIVITY: No ACUTE: No CHRONIC: No

313 REPORTABLE INGREDIENTS: None

## **302/304 EMERGENCY PLANNING**

EMERGENCY PLAN: NOT listed

## CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

**CERCLA REGULATORY:** None of the ingredients are CERCLA/Superfund hazardous chemicals.

## **CLEAN AIR ACT**

40 CFR PART 68---RISK MANAGEMENT FOR CHEMICAL ACCIDENT RELEASE PREVENTION: NOT listed OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)

**29 CFR1910.119----PROCESS SAFETY MANAGEMENT OF HIGHLY HAZARDOUS CHEMICALS:** None of the chemicals in this product are considered highly hazardous by OSHA.

**OSHA HAZARD COMM. RULE:** Contents of this MSDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

## CANADA

WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM): No data available. Contact Env. Dept.

WHMIS CLASS: NOT listed

#### **EUROPEAN COMMUNITY**



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## **EEC LABEL SYMBOL AND CLASSIFICATION**

Currently not classified according to EEC Directives.

## **16. OTHER INFORMATION**

APPROVED BY: Pierce A. Pillon TITLE: Chemist

PREPARED BY: Pierce Pillon

**REVISION SUMMARY:** This MSDS replaces the 03/16/2011 MSDS.



