

Date Issued: 05/16/2005 MSDS No: 1978

**Date Revised:** 02/06/2012

Revision No: 6

# 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**

Amarillo, TX 79107

## 24 HR. EMERGENCY TELEPHONE NUMBERS

Techspray, L.P. CHEMTREC CCN#21858 (US Transportation): (800) 424 - 9300 
1001 N.W. 1st Street CANUTEC (Canadian Transportation): (613) 996 - 6666 
P.O. Box 949 
Emergency Phone: (800) 858 - 4043

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 atmospheric pressure.

**COMMENTS:** When used/stored properly, 1978 has a shelf life of 5 years from the date of manufacture.

# 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.



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## 12. ECOLOGICAL INFORMATION

**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



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# EUROPEAN COMMUNITY 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 11/16/2011 MSDS. Revised: **Section 7:** COMMENTS.

## **HMIS RATING**

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	

# **NFPA CODES**

