

MATERIAL SAFETY DATA SHEET

SECTION I

Heartland Cooling System Sealing Pellets

Part # 61010



EMERGENCY TELEPHONE NUMBER: 313-634-8278

TELEPHONE NUMBER FOR INFORMATION: 630-378-2224

DATE PREPARED: May 31, 1990

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

HAZARDOUS COMPONENTS	OSHA PEL	ACGIH TLV
Particulates not otherwise regulated	15mg/m ³ (total dust) 5mg/m ³ (respirable dust)	10mg/m ³

The specific formula is proprietary. Additional information will be released to medical professionals, and others, upon request as specified in the federal Hazard Communication Standard.

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: N/A

VAPOR PRESSURE (mm Hg): N/A

CONTAINS: Turmeric
CAS #458-37-7

VAPOR DENSITY (AIR = 1): N/A

Sal Soda
CAS #6132-02-1

SPECIFIC GRAVITY (WATER = 1): N/I

MELTING POINT: N/A

EVAPORATION RATE (BUTYL ACETATE = 1): N/A

SOLUBILITY IN WATER: A portion of the material dissolves in water. The insoluble material remains as suspended solids.

APPEARANCE AND ODOR: Large tan colored pellets.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED): N/A

FLAMMABLE LIMITS: LEL: N/A UEL: N/A

EXTINGUISHING MEDIA: Treat as a Class A fire. Use water, foam, or multipurpose dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: Wear a self contained breathing apparatus to protect against oxygen deficiency and toxic gases which may be formed as the material burns. The material is strongly alkaline. Impervious clothing should be worn by firefighters.

UNUSUAL FIRE AND EXPLOSION HAZARDS: The residue from any fire involving the material will be strongly alkaline.

SECTION V - REACTIVITY DATA

STABLE-CONDITIONS TO AVOID: N/A

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizing agents, aluminum powder, ammonia, and acids.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Carbon monoxide and carbon dioxide will be produced if the material burns.

HAZARDOUS POLYMERIZATION WILL NOT OCCUR-CONDITIONS TO AVOID: N/A

SECTION VI - HEALTH HAZARD DATA

ROUTE(S) OF ENTRY: INHALATION: Yes SKIN: Yes INGESTION: Yes

HEALTH HAZARDS (ACUTE AND CHRONIC): Eye contact may cause severe eye irritation or burns. Skin contact may cause skin irritation. Prolonged skin contact may cause more serious skin disorders. Inhalation of dust may cause respiratory tract irritation and chemical pneumonia. If swallowed, may cause gastrointestinal disturbances.

CARCINOGENICITY: NTP: No IARC MONOGRAPHS: No OSHA REGULATED: No

SIGNS AND SYMPTOMS OF EXPOSURE: EYES - Irritation, pain, reddening, and swelling. SKIN - Irritation, itching, pain, reddening, and swelling of affected skin. INHALATION - Irritation and pain of the throat and upper respiratory tract, coughing, difficulty breathing, and flu-like symptoms. INGESTION - Gastrointestinal distress and nausea.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: People with pre-existing respiratory problems such as asthma and emphysema should avoid the inhalation of irritating dusts.

EMERGENCY AND FIRST AID PROCEDURES: **EYES** - Immediately flush with water for 15 minutes. Consult a doctor. **SKIN** - Immediately flush with water for 15 minutes. Consult a doctor if irritation persists. **INHALATION** - Move to fresh air. Consult a doctor. **INGESTION** - If conscious, have victim drink large quantities of water or milk to dilute the swallowed alkaline material. **DO NOT INDUCE VOMITING** - Aspiration of material into the lungs during vomiting may cause chemical pneumonia. **CONSULT A DOCTOR IMMEDIATELY.**

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Sweep up spilled material - minimize dusting.

WASTE DISPOSAL METHOD: Dispose of in accordance with applicable local, state, and federal laws.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Do not store near incompatible materials or sources of heat.

OTHER PRECAUTIONS: N/I

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION: Not required under normal conditions of use. Use a NIOSH approved respirator if the airborne concentration exceeds the OSHA PEL.

VENTILATION: Not required under normal conditions of use. Ventilate if needed to maintain the airborne concentration at or below the OSHA PEL.

PROTECTIVE GLOVES: Use impervious rubber gloves to prevent skin contact.

EYE PROTECTION: Use chemical splash goggles or a full faceshield to prevent eye contact.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: If contact is unavoidable, use other impervious protective clothing.

WORK/HYGIENIC/MAINTENANCE PRACTICES: Wash hands after use. Launder contaminated clothing.

N/I = NO INFORMATION AVAILABLE. N/A = NOT APPLICABLE.