

**MATERIAL SAFETY DATA SHEET**

**1. Product And Company Identification**

MSDS ID: MSDS471  
 PRODUCT NAME: Prestone® Super Radiator Stop Leak  
 PRODUCT NUMBER: AS-148  
 FORMULA NUMBER: 2168-127

MANUFACTURER:  
 Prestone Products Corporation  
 Danbury, CT 06810-5109

CANADIAN OFFICE:  
 FRAM Group (Canada), Inc.  
 Mississauga, Ontario L5L 3S6

MEDICAL EMERGENCIES AND ALL OTHER INFORMATION PHONE NUMBER:

(800)890-2075 (in the US)  
 (800)668-9349 (in Canada)

TRANSPORTATION EMERGENCY PHONE NUMBER (Chemical Spills and Transport Accidents only):

CHEMTREC 1-800-424-9300 (in the US)  
 CANUTEC (613)996-6666 (in Canada)

MSDS DATE OF PREPARATION/REVISION: 09/14/11

PRODUCT USE: Stops leaks in automobile radiator – consumer product

**2. Hazards Identification**

Brown slurry with a slight chemical odor.

**EMERGENCY OVERVIEW**

This material is not combustible. May cause irritation to the eyes and skin. Inhalation of vapors or mists may cause mucous membrane irritation.

**3. Composition/Information On Ingredients**

| Component  | CAS No.   | Amount   |
|--|-----------|----------|
| Magnesium Aluminum Silicate (May contain up to 10% of crystalline silica-quartz) | 8031-18-3 | 1-5%     |
| Bentonite Clay (May contain up to 2-6% of crystalline silica-quartz)             | 1302-78-9 | 5-20%    |
| Glutaraldehyde   | 111-30-8  | 0.1-0.5% |
| Sodium Nitrate   | 7631-99-4 | 1-5%     |
| Proprietary Ingredients  | Mixture   | 1-5%     |
| Water  | 7732-18-5 | >80%     |
| Vegetable Fiber  | Mixture   | 1-5%     |

(See Section 8 for Exposure Limits)

**4. First Aid Measures**

INHALATION: No harmful effects expected. However, if symptoms of exposure occur, remove to fresh air.

SKIN CONTACT: Remove contaminated clothing. Wash all affected and exposed areas thoroughly with soap and water. If irritation or redness occurs and persists, seek medical attention.

**EYE CONTACT:** Exposed eyes should be immediately flushed with copious amounts of water using a steady stream for a minimum of 15 minutes. If irritation, pain, swelling or tearing persist, seek medical attention.

**INGESTION:** No harmful effects expected. Seek medical attention if large amounts are ingested

**NOTES TO PHYSICIAN:** Toxicological studies have shown the components to be of low acute toxicity. There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical conditions.

**5. Firefighting Measures**

**EXTINGUISHING MEDIA:** This product is not combustible. Use any media that is appropriate for the surrounding fire.

**SPECIAL FIRE FIGHTING PROCEDURES:** Firefighters should wear positive pressure self- contained breathing apparatus and full protective clothing for fires in areas where chemicals are used or stored.

**UNUSUAL FIRE HAZARDS:** None known.

**HAZARDOUS COMBUSTION PRODUCTS:** May release oxides of carbon and nitrogen.

**6: Accidental Release Measures**

Wear appropriate protective clothing and equipment (See Section 8). Collect for disposal. Large spill may be absorbed on vermiculite or other similar material.

**7. Handling and Storage**

Avoid eye and skin contact.  
 Wash exposed skin thoroughly after handling.

**NFPA CLASSIFICATION:** Not Applicable

**8. Exposure Controls / Personal Protection**

**EXPOSURE LIMITS**

| CHEMICAL                    | EXPOSURE LIMIT   |
|-----------------------------|--|
| Magnesium Aluminum Silicate | None Established   |
| Bentonite Clay              | None Established   |
| Glutaraldehyde              | 0.05 ppm TLV-Ceiling ACGIH TLV STEL<br>0.2 ppm Ceiling NIOSH REL                     |
| Sodium Nitrate              | None Established   |
| Proprietary Ingredients     | None Established   |
| Water                       | None Established   |
| Vegetable Fiber             | None Established   |
| Crystalline Silica          | 10mg/m <sup>3</sup> /%SiO <sub>2</sub> +2 PEL-TWA<br>0.025 mg/m <sup>3</sup> TLV-TWA |

**VENTILATION:** General ventilation is adequate for normal use.

**RESPIRATORY PROTECTION:** None normally needed. For operations where the TLV is exceeded a NIOSH approved respirator with dust/mist cartridges or supplied air respirator is recommended. Equipment selection depends on contaminant type and concentration. Select and use in accordance with 29 CFR 1910.134 and good industrial hygiene practice. For firefighting, use self-contained breathing apparatus.

GLOVES: For prolonged contact, rubber gloves can be worn.

EYE PROTECTION: Safety goggles recommended to prevent eye contact.

OTHER PROTECTIVE EQUIPMENT/CLOTHING: Appropriate protective clothing as needed to minimize skin contact. Suitable washing and eye flushing facilities should be available in the work area. Contaminated clothing should be removed and laundered before re-use.

### 9. Physical and Chemical Properties

APPEARANCE AND ODOR: Brown slurry with a slight chemical odor.

|  |                                  |
|--|----------------------------------|
| pH: Not available  | SPECIFIC GRAVITY: 1.01           |
| BOILING POINT: 212°F (100°C)                                 | VAPOR PRESSURE: Not determined   |
| FREEZING POINT: 31°F (-0.5°C)                                | VAPOR DENSITY: Greater than 1    |
| SOLUBILITY IN WATER: Greater than 90%                        | EVAPORATION RATE: Not determined |
| PERCENT VOLATILE: 90%  | VISCOSITY: Not applicable        |
| FLASH POINT: None to boiling (Setaflash)                     | AUTOIGNITION TEMP: Not available |
| FLAMMABILITY LIMITS: LEL: Not applicable UEL: Not applicable |                                  |
| COEFFICIENT OF WATER/OIL DISTRIBUTION: Not determined        |                                  |

### 10. Stability and Reactivity

STABILITY: Stable

CONDITIONS TO AVOID: None

INCOMPATIBILITY: Avoid oxidizing agents and reducing agents.

DECOMPOSITION PRODUCTS: Thermal decomposition may release oxides of carbon and nitrogen.

HAZARDOUS POLYMERIZATION: Will not occur.

### 11. Toxicological Information

#### POTENTIAL HEALTH EFFECTS:

#### ACUTE HAZARDS:

INHALATION: Inhalation of vapor or mist may cause mucous membrane irritation.

SKIN CONTACT: May cause irritation, seen as localized reddening and swelling. Prolonged or frequent skin contact to glutaraldehyde solutions may result in sensitization with allergic skin reaction to subsequent exposures.

EYE CONTACT: May cause eye irritation with excess tearing and reddening of the conjunctiva.

INGESTION: No evidence of adverse effects from available information.

CHRONIC EFFECTS: This product contains a small amount of crystalline silica. Repeated inhalation of large amounts of silica dust over an extended period of time may result in a progressive, disabling disease, silicosis. Symptoms include shortness of breath, chest pain and reduced lung function.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: A knowledge of the available toxicology information and of the physical and chemical properties of the material suggests that overexposure is unlikely to aggravate an existing medical condition.

**CARCINOGEN:** Respirable crystalline silica is listed by both ACGIH (A2), NTP (Known human carcinogen), and IARC (Category I) as a carcinogen. None of the other components of this product are listed as a carcinogen or suspected carcinogen by IARC, ACGIH, NTP or OSHA.

**Acute Toxicity Values:**

|                              |   |
|------------------------------|---|
| Magnesium Aluminum Silicate: | No data available.  |
| Bentonite Clay:              | No data available.  |
| Quartz:                      | No data available.  |
| Glutaraldehyde:              | LD50 oral rat - 134 mg/kg;<br>LD50 skin rat - >2500 mg/kg |
| Sodium Nitrate:              | LD50 oral rat - 1267 mg/kg                                |
| Proprietary Ingredients:     | LD50 oral rat - >500 mg/kg                                |

**12. Ecological Information**

No ecotoxicity data is available at this time.

**13. Disposal Considerations**

Dispose of product in accordance with all local, state/provincial and federal regulations.

**14. Transport Information**

U.S. DOT HAZARD CLASSIFICATION: Not regulated

DOT MARINE POLLUTANTS: This product does not contain Marine Pollutants as defined in 49 CFR 171.8.

IMDG CODE SHIPPING CLASSIFICATION: Not regulated

CANADIAN TDG CLASSIFICATION: Not regulated

**15. Regulatory Information**

EPA SARA 311/312 HAZARD CLASSIFICATION: Acute Health, Chronic Health

EPA SARA 313: This Product Contains the Following Chemicals Subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372): None

PROTECTION OF STRATOSPHERIC OZONE: This product is not known to contain or to have been manufactured with ozone depleting substances as defined in 40 CFR Part 82, Appendix A to Subpart A.

CERCLA SECTION 103: This product is not subject to CERCLA reporting requirements, however, many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

CALIFORNIA PROPOSITION 65 - This product contains clays which contain small amounts of crystalline silica, as do most natural minerals. Exposure to respirable crystalline silica in the normal use of this product is below the level posing a cancer risk, therefore, labeling is not required.

**EPA TSCA INVENTORY:** All of the components of this material are listed on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory.

**CANADIAN ENVIRONMENTAL PROTECTION ACT:** All of the ingredients are listed on the Canadian Domestic Substances List.

**CANADIAN WHMIS CLASSIFICATION:** Class D, Division 2, Subdivision A - (A very toxic material causing other toxic effects) (Contains a component that is a carcinogen)



**CANADIAN WHMIS HAZARD SYMBOLS:**

This MSDS has been prepared according to the criteria of the Controlled Products Regulation (CPR) and the MSDS contains all of the information required by the CPR.

**EUROPEAN INVENTORY OF EXISTING COMMERCIAL CHEMICAL SUBSTANCES (EINECS):** All of the ingredients are listed on the EINECS inventory.

**AUSTRALIA:** All of the ingredients of this product are listed on the Australian Inventory of Chemical Substances.

**JAPAN:** All of the ingredients of this product are listed on the Japanese Existing and New Chemical Substances (MITI) List.

**KOREA:** All of the ingredients of this product are listed on the Korean Existing Chemicals List (KECL).

**CHINA:** All of the ingredients of this product are listed on the Inventory of Existing Chemical Substances in China (IECSC).

**PHILIPPINES:** All of the ingredients of this product are listed on the Philippines Inventory of Chemicals and Chemical Substances (PICCS).

|                              |
|------------------------------|
| <b>16. Other Information</b> |
|------------------------------|

**NFPA RATING - FIRE:** 0      **HEALTH:** 1      **REACTIVITY:** 0

**REVISION SUMMARY:** Section 1: Update company name and address.

This MSDS is directed to professional users and bulk handlers of the product. Consumer products are labeled in accordance with Federal Hazardous Substances Act regulations.

While Prestone Products Corporation believes that the data contained herein are factual and the opinions expressed are those of qualified experts regarding the results of the tests conducted, the data are not to be taken as a warranty or representation for which Prestone Products Corporation assumes legal responsibility. They are offered solely for your consideration, investigation and verification. Any use of these data and information must be determined by the user to be in accordance with applicable federal, state and local laws and regulations.

If more information is needed, please contact:      Prestone Products Corporation  
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