

## MATERIAL SAFETY DATA SHEET

### 1. Product And Company Identification

MSDS ID: MSDS233  
PRODUCT NAME: Prestone ® Super Flush, 10-Minute Radiator Flush  
PRODUCT NUMBER: AS107, 70276, AS106BL, AS-107P  
FORMULA NUMBER: 13616-6A, 13616-6B, 2177-68/69, 2307-21A

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EMERGENCY PHONE NUMBER: CHEMTREC (800)424-9300 (in the US) CANUTEC (613)996-6666 (in Canada)  
MSDS DATE OF PREPARATION/REVISION: 3/1/07  
PRODUCT USE: Automobile cooling system flush – consumer product

### 2. Composition/Information On Ingredients

Component	CAS No.	Amount
Sodium Citrate	68-04-2	5-15%
Water	7732-18-5	85-95%

(See Section 8 for Exposure Limits)

### 3. Hazards Identification

This product is a clear liquid with a slight, sweet odor.

### EMERGENCY OVERVIEW

May cause slight eye and skin irritation. Ingestion may cause gastrointestinal irritation.

### 4. First Aid Measures

EYES: Immediately rinse thoroughly with water, holding eyelids open. Obtain medical attention if irritation occurs or persists.

SKIN: Removed contaminated clothing immediately. Wash skin thoroughly with soap and water. Obtain medical attention if irritation occurs or persists.

INHALATION: Remove victim to fresh air. If irritation is experienced, move to fresh air.

SWALLOWING: If large quantities are ingested, consult your physician.

### 5. Firefighting Measures

EXTINGUISHING MEDIA: Use any media that is appropriate for the surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES: None needed.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None known.

HAZARDOUS COMBUSTION PRODUCTS: Thermal decomposition may produce oxides of sodium and carbon.

**6: Accidental Release Measures**

Wear appropriate protective clothing and equipment (See Section 8). Collect with absorbent material and place in appropriate, labeled container for disposal or, if permitted flush spill area with water.

**7. Handling and Storage**

Avoid eye and prolonged or repeated skin contact.  
Do not reuse empty containers unless properly cleaned.

Store in a cool, dry area.

**8. Exposure Controls / Personal Protection**

**EXPOSURE LIMITS**

CHEMICAL	EXPOSURE LIMIT
Sodium Citrate	None Established (PEL/TLV)
Water	None Established (PEL/TLV)

VENTILATION: Use general ventilation or local exhaust as required to maintain exposures below the occupational exposure limits.

RESPIRATORY PROTECTION: None needed under normal conditions of use.

GLOVES: None normally needed. For prolonged contact rubber or neoprene gloves can be worn.

EYE PROTECTION: Safety glasses recommended if splashing is possible.

OTHER PROTECTIVE EQUIPMENT/CLOTHING: Appropriate protective clothing as needed to minimize skin contact.

**9. Physical and Chemical Properties**

APPEARANCE AND ODOR: Clear liquid with a slight sweet odor. There is no odor threshold data for this product.

pH: 8.3-9.9

BOILING POINT (F): 212°F

MELTING POINT (F): 27-30°F

SOLUBILITY IN WATER: Complete

PERCENT VOLATILE: 85-95%

COEFFICIENT OF WATER/OIL DISTRIBUTION: Not determined

FLASH POINT: None to boiling

SPECIFIC GRAVITY: 1.05-1.06

VAPOR PRESSURE: Same as water

VAPOR DENSITY: Same as water

EVAPORATION RATE: 0.8 (Butyl Acetate = 1)

VISCOSITY: Not determined

FLAMMABILITY LIMITS: Not applicable

AUTOIGNITION TEMPERATURE: Not applicable

#### 10. Stability and Reactivity

STABILITY: Stable

HAZARDOUS POLYMERIZATION: None.

CONDITIONS TO AVOID: None known.

INCOMPATIBILITY (Materials to Avoid): Strong acids, metals, flammable liquids.

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS: Thermal decomposition will produce oxides of carbon and sodium.

#### 11. Toxicological Information

##### POTENTIAL HEALTH EFFECTS:

##### ACUTE HAZARDS:

INHALATION: Inhalation is not expected to be hazardous. Inhalation of large amounts may of mist cause mucous membrane irritation.

SKIN CONTACT: Skin contact is not expected to be hazardous. Prolonged or excessive contact may cause skin irritation and possible skin rash.

SKIN ABSORPTION: Not expected to be absorbed through the skin.

INGESTION: Ingestion of small amounts is not expected to be acutely hazardous. Ingestion of large amounts may cause gastrointestinal irritation.

CHRONIC HAZARDS: None currently known.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-existing skin conditions.

CARCINOGEN: None of the ingredients are listed as a carcinogen or potential carcinogen by IARC, NTP or OSHA.

##### Acute Toxicity Values:

Not toxicity data available.

#### 12. Ecological Information

No ecotoxicity data is currently available, however, this product does contain a biocide and surfactant.

#### 13. Disposal Considerations

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

**14. Transport Information**

U.S. DOT HAZARD CLASSIFICATION

PROPER SHIPPING NAME: Not Regulated  
TECHNICAL NAME: None  
UN NUMBER: None  
HAZARD CLASS/PACKING GROUP: Not applicable  
LABELS REQUIRED: None

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

IMDG CODE SHIPPING CLASSIFICATION

DESCRIPTION: Not Regulated  
ID NUMBER: None  
HAZARD CLASS: Not applicable  
PACKING GROUP: Not applicable  
LABELS REQUIRED: None  
PLACARDS REQUIRED: None

**15. Regulatory Information**

EPA SARA 311/312 HAZARD CLASSIFICATION: This product is not considered hazardous under OSHA and SARA Title III, Section 311.

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 regulated under CERCLA. However, many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

CALIFORNIA PROPOSITION 65: This product does not contain chemicals regulated under California Proposition 65.

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: Not a controlled product.

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 (METI) List.

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

PHILIPPINES: All of the ingredients of this product are listed on the Philippine Inventory of Chemical and Chemical Substance (PICCS)

<b>16. Other Information</b>
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NFPA RATING (NFPA 704) - FIRE: 0      HEALTH: 1      REACTIVITY: 0

Revision Summary: All: Updated Format and Formulation

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:

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