SAFETY DATA SHEET

1. Product And Company Identification

SDS ID: SDS760
PRODUCT NAME: Prestone ® Flush & Oil Remover
PRODUCT NUMBER: AS-110Y
FORMULA NUMBER: 2717-90

MANUFACTURER:
Prestone Products Corporation
69 Eagle Rd.
Danbury, CT 06810

CANADIAN OFFICE:
AutoSupply Acquisition Canada Inc.
33 MacIntosh Blvd.
Concord, ON L4K 4L5

MEXICO OFFICE:
ASG Operations Mexico S. de R.L. de C.V.
Carretera Mexico Cuautitlan, Kilometro 31.5, Nave Industrial 5,
Loma Bonita, Cuautitlan, Mexico, 54800

MEDICAL EMERGENCIES AND ALL OTHER INFORMATION PHONE NUMBER:
(888)269-0750 (in the US and Canada)
01-800-715-4135 (in Mexico)
TRANSPORTATION EMERGENCY PHONE NUMBER (Chemical Spills and Transport Accidents only):
CHEMTREC 1-800-424-9300 (in the US and Canada) +1 703 741-5970 (outside the US and Canada)

PRODUCT USE: Automobile cooling system flush – consumer product
RESTRICTIONS ON USE: None identified

2. Hazards Identification

GHS Classification:

Health	Physical
Eye Damage Category 1	Not Hazardous

Label Elements:

DANGER!
H318 Causes serious eye damage.

Response:
P280 Wear eye protection and face protection.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor.

3. Composition/Information On Ingredients

Component	CAS No.	Amount
Water	7732-18-5	85-95%
Sodium Citrate	68-04-2	5-15%
Nonionic Surfactant	Proprietary	1-5%

The exact concentrations are a trade secret.

4. First Aid Measures

INHALATION: Remove victim to fresh air. Obtain medical attention if irritation occurs or persists.

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

EYE CONTACT: Immediately flush eyes with large amounts of water for 20 minutes. Remove contact lenses after the first 5 minutes. Get immediate medical attention.

INGESTION: If swallowed, get immediate medical advice by calling a Poison Control Center, or emergency room. If advice is not available, take victim and product container to the nearest emergency treatment center or hospital. Do not attempt to give anything by mouth to an unconscious person.

MOST IMPORTANT SYMPTOMS: Eye contact may cause severe irritation or burns. Permanent damage may occur. Prolonged skin contact may cause irritation. Inhalation of mists may cause irritation of the nose, throat and upper respiratory tract. Swallowing may cause gastrointestinal irritation, nausea, vomiting or diarrhea.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT, IF NEEDED: Immediate medical attention is required for eye contact.

NOTES TO PHYSICIAN: Treatment of overexposure should be directed at the control of symptoms and the clinical conditions.

5. Firefighting Measures

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

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL: Thermal decomposition may produce oxides of sodium and carbon.

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE FIGHTERS: Firefighters should wear positive pressure self- contained breathing apparatus and full protective clothing for fires in areas where chemicals are used or stored.

6: Accidental Release Measures

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES: Wear appropriate protective clothing and equipment (See Section 8).

METHODS AND MATERIALS FOR CONTAINMENT/CLEANUP: Collect with absorbent material and place in appropriate, labeled container for disposal or, if permitted flush spill area with water.

7. Handling and Storage

PRECAUTIONS FOR SAFE HANDLING: Avoid eye, and prolonged or repeated skin contact. Wash hands thoroughly after handling. Do not reuse empty containers unless properly cleaned.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES: Store in a cool, dry area. Protect from physical damage.

NFPA Classification: N/A

8. Exposure Controls / Personal Protection

EXPOSURE GUIDELINES

CHEMICAL	EXPOSURE LIMIT
Water	None Established
Sodium Citrate	None Established
Nonionic Surfactant	None Established

APPROPRIATE ENGINEERING CONTROLS: Use general ventilation or local exhaust as required to minimize exposures.

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION: None normally needed. For operations where exposures are excessive, 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: None normally needed. For prolonged contact, butyl, neoprene or PVC gloves can be worn.

EYE PROTECTION: Splash proof goggles are recommended if splashing is possible.

OTHER PROTECTIVE EQUIPMENT/CLOTHING: Appropriate protective clothing as needed to minimize skin contact. An eyewash station should be available in the immediate work area.

9. Physical and Chemical Properties

APPEARANCE:	Green liquid	ODOR:	Slightly sweet
ODOR THRESHOLD:	Not determined	pH:	9-10
MELTING/FREEZING POINT:	27.5°F (-2.5°C)	BOILING POINT/RANGE:	214°F (101°C)
FLASH POINT:	>215°F (>101.7°C) SETA	EVAPORATION RATE:	Not determined
FLAMMABILITY (SOLID, GAS)	Non-Flammable	FLAMMABILITY LIMITS:	LEL: Not applicable UEL: Not applicable
VAPOR PRESSURE:	Not determined	VAPOR DENSITY:	Not determined
RELATIVE DENSITY:	1.0658	SOLUBILITIES	Water: 100%
PARTITION COEFFICIENT (n-octanol/water)	Not determined	AUTOIGNITION TEMPERATURE:	Not applicable
DECOMPOSITION TEMPERATURE:	Not determined	VISCOSITY (cSt @ 68°F):	Not determined

10. Stability and Reactivity

REACTIVITY: Normally unreactive.
CHEMICAL STABILITY: Stable.
POSSIBILITY OF HAZARDOUS REACTIONS: None known.
CONDITIONS TO AVOID: None known.
INCOMPATIBLE MATERIALS: Strong acids and oxidizing agents.
HAZARDOUS 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 mists cause mucous membrane and upper respiratory tract irritation.

SKIN CONTACT: Skin contact is not expected to be hazardous. Prolonged skin contact may cause skin irritation.

EYE CONTACT: Causes severe irritation or burns with redness, tearing and blurred vision. Permanent damage may occur.

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.

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

ACUTE TOXICITY VALUES:
Acute Toxicity Estimate: Oral: >5,000 mg/kg
Sodium Citrate: Oral rat LD50: 5400 mg/kg (read-across)
Nonionic Surfactant: Oral rat LD50 500-2000 mg/kg

12. Ecological Information

ECOTOXICITY:
Nonionic Surfactant: 96 hr LC50 danio rerio 1-10 mg/L, EC10 daphnia 0.17 mg/L (chronic study)

PERSISTENCE AND DEGRADABILITY: Nonionic surfactant is readily biodegradable.

BIOACCUMULATIVE POTENTIAL: No data is available at this time.

MOBILITY IN SOIL: No data is available at this time.

OTHER ADVERSE EFFECTS: This product is expected to be toxic to aquatic life with long lasting effects.

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:
DESCRIPTION: UN3082, Environmentally hazardous substances, liquid, n.o.s. (Nonionic Surfactant), 9, PG III
UN NUMBER: UN3082
HAZARD CLASS: 9
PACKING GROUP: III
LABELS REQUIRED: LIMITED QUANTITY

PLACARDS REQUIRED: LIMITED QUANTITIES

CANADIAN TDG CLASSIFICATION: Not Regulated

15. Regulatory Information

EPA SARA 311/312 HAZARD CLASSIFICATION: Acute 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 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.

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

NEW ZEALAND All of the ingredients of this product are listed on the Hazardous Substance and New Organisms list (HSNO)

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

16. Other Information

NFPA RATING (NFPA 704) - FIRE: 0 HEALTH: 3 INSTABILITY: 0

REVISION SUMMARY: Section 1 Product Number

SDS Date of Preparation/Revision: January 10, 2017

This SDS 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.