



SAFETY DATA SHEET

1. Product and Company Identification

SDS ID: SDS909
 PRODUCT NAME: Prestone® MAX Cooling System Fix and Boost – Asian Vehicles
 PRODUCT NUMBER: AS-153
 FORMULA NUMBER: 2913-102

<u>MANUFACTURER:</u> Prestone Products Corporation 69 Eagle Rd. Danbury, CT 06810	<u>CANADIAN OFFICE:</u> Prestone Canada 33 MacIntosh Blvd. Concord, ON L4K 4L5	<u>MEXICO OFFICE:</u> ASG Operations Mexico S. de R.L. de C.V. Carretera Mexico Cuautitlan, Kilometro 31.5, Nave Industrial 5, Loma Bonita, Cuautitlan, Mexico, 54800
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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: Automotive cooling system additive – consumer product
 RESTRICTIONS ON USE: None identified

2. Hazards Identification

GHS/HAZCOM 2012 Classification:

Health	Physical
Specific Target Organ Toxicity – Repeated Exposure Category 2 Toxic to Reproductive Category 2	Not Hazardous

Label Elements



WARNING!

H361d Suspected of damaging the unborn child.
 H373 May cause damage to kidneys through prolonged or repeated exposure.

Prevention:

P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P260 Do not breathe mist or vapors.
 P280 Wear protective gloves and eye protection.

Response:

P308 + P313 IF exposed or concerned: Get medical advice.
 P314 Get Medical attention if you feel unwell.



Disposal and Storage:

P405 Store locked up.

P501 Dispose of contents and container in accordance with local and national regulations.

3. Composition/Information on Ingredients

Component	CAS No.	Percent w/w
Water	7732-18-5	85-95
Ethylene Glycol	107-21-1	1-3
2-Ethyl Hexanoic Acid, Sodium Salt	19766-89-3	1-3
Tolyltriazole	29385-43-1	<2

The exact concentrations are a trade secret.

4. First Aid Measures

INHALATION: If breathing has stopped administer artificial respiration. If breathing is difficult, have medical personnel administer oxygen. Get medical attention.

SKIN CONTACT: Remove contaminated clothing. Wash contacted area thoroughly with soap and water. If irritation persists, get medical attention. If exposed or concerned or if you feel unwell: Get medical attention.

EYE CONTACT: Immediately flush eyes with large amounts of water. Get medical attention if irritation persists.

INGESTION: If you feel unwell: get medical attention. Never give anything by mouth to or induce vomiting in an unconscious or drowsy person.

MOST IMPORTANT SYMPTOMS: May cause mild eye irritation. Inhalation of mists may cause nose and throat irritation. Ingestion may cause gastrointestinal upset. May cause developmental effects based on animal data.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT, IF NEEDED: Seek medical attention for large ingestions.

NOTES TO PHYSICIAN: This product contains a small amount of ethylene glycol. The principal toxic effects of ethylene glycol, when swallowed, are kidney damage and metabolic acidosis. Antidotes for ethylene glycol poisoning exist. We recommend you consult with the toxicologists at your poison center.

5. Firefighting Measures

SUITABLE EXTINGUISHING MEDIA: Use any suitable media for surrounding fire.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL: None known.

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:

Do not drink solution. Avoid eye and prolonged or repeated skin contact. Avoid breathing vapors or mists. Wash exposed skin thoroughly with soap and water after use. Do not store in opened or unlabeled containers. Do not reuse empty containers unless properly cleaned.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES: Store away from excessive heat and oxidizers.

NFPA CLASSIFICATION: IIIB (May qualify for the following consumer quantity exemption: Consumer products that contain not more than 50 percent by volume of water-miscible flammable or combustible liquids, with the remainder of the product consisting of components that do not burn and where packaged in individual containers that do not exceed 1.3 gal (5 L) capacity.)

8. Exposure Controls / Personal Protection

EXPOSURE GUIDELINES

CHEMICAL	EXPOSURE LIMIT
Ethylene Glycol	25 ppm TWA, 50 ppm STEL ACGIH TLV (as vapor) 10 mg/m ³ TWA ACGIH TLV (as inhalable fraction of the aerosol)
2-Ethyl Hexanoic Acid	None Established
Tolyltriazole	None Established

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

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION: For operations where the exposure limit is exceeded a NIOSH approved respirator with organic vapor cartridges and dust/mist prefilters 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: Chemical resistant gloves such as neoprene or PVC where contact is possible.

EYE PROTECTION: Splash-proof goggles.

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

9. Physical and Chemical Properties

APPEARANCE:	Reddish orange liquid	ODOR:	Characteristic odor
ODOR THRESHOLD:	None	pH:	7.5-8.5
MELTING/FREEZING POINT:	21°F (-6.1°C)	BOILING POINT/RANGE:	230°F (110°C)
FLASH POINT:	> 215°F (101.7°C) SCC	EVAPORATION RATE:	Not determined
FLAMMABILITY (SOLID, GAS)	Not Applicable	FLAMMABILITY LIMITS:	LEL: Not determined UEL: Not determined
VAPOR PRESSURE:	< 0.1 mmHg @ 68°F	VAPOR DENSITY:	Not determined



RELATIVE DENSITY:	1.0025	SOLUBILITIES	Water: 90%
PARTITION COEFFICIENT (n-octanol/water)	Not determined	AUTOIGNITION TEMPERATURE:	Not determined
DECOMPOSITION TEMPERATURE:	Not determined	VISCOSITY:	Not determined

10. Stability and Reactivity

REACTIVITY: Normally unreactive

CHEMICAL STABILITY: Stable

POSSIBILITY OF HAZARDOUS REACTIONS: Reaction with strong oxidizers will generate heat.

CONDITIONS TO AVOID: None known

INCOMPATIBLE MATERIALS: Avoid strong bases at high temperatures, strong acids, strong oxidizing agents, and materials reactive with hydroxyl compounds.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide.

11. Toxicological Information

POTENTIAL HEALTH EFFECTS:

ACUTE HAZARDS:

INHALATION: May cause irritation of the nose and throat with headache, particularly from mists.

SKIN CONTACT: No evidence of adverse effects from available information.

EYE CONTACT: Liquid, vapors or mist may cause discomfort in the eye with persistent conjunctivitis, seen as slight excess redness or conjunctiva. Serious corneal injury is not anticipated.

INGESTION: May cause gastrointestinal upset

CHRONIC EFFECTS: Chronic ingestion of Ethylene glycol may cause kidney damage. Ethylene glycol has been found to cause birth defects in laboratory animals. The significance of this finding to humans has not been determined. 2-Ethyl Hexanoic Acid, Sodium Salt, and Tolyltriazole are suspected of causing developmental effects based on animal data.

CARCINOGENICITY LISTING: None of the components of these products is listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, or OSHA.

ACUTE TOXICITY VALUES:

Calculated ATEmix: LD50 Oral: >5,000 mg/kg

Ethylene Glycol: LD50 Oral Rat: 4700 mg/kg
LD50 Skin Rabbit: 9530 mg/kg

2-Ethyl Hexanoic Acid, Sodium Salt:
LD50 Oral Rat: 2,043 mg/kg
LD50 Skin Rat: >2,000 mg/kg



Tolyltriazole: LD50 Oral Rat: 720 mg/kg
LD50 Skin Rabbit: >2,000 mg/kg

SIGNIFICANT LABORATORY DATA WITH POSSIBLE RELEVANCE TO HUMAN HEALTH:

Two chronic feeding studies, using rats and mice, have not produced any evidence that ethylene glycol causes dose-related increases in tumor incidence, or a different pattern of tumors compared with untreated controls. The absence of carcinogenic potential for ethylene glycol has been supported by numerous invitro genotoxicity studies showing that it does not produce mutagenic or clastogenic effects.

In a study of Wistar rats, adverse developmental results were reported at a dose of 100 mg / kg of body weight for 2-Ethyl Hexanoic Acid, Sodium Salt. Adverse developmental results were reported for Tolyltriazole via ingestion in animal studies.

12. Ecological Information

ECOTOXICITY:

Ethylene Glycol: LC50 Fathead Minnow >10,000 mg/L/96 hr.
EC50 Daphnia Magna 100,000 mg/L/48 hr
Bacterial (*Pseudomonas putida*): 10,000 mg/l
Protozoa (*Entosiphon sulcatum* and *Uronema parduizi*; Chatton-Lwoff): >10,000 mg/l
Algae (*Microcystis aeruginosa*): 2,000 mg/l
Green algae (*Scenedesmus quadricauda*): >10,000 mg/l

PERSISTENCE AND DEGRADABILITY:

Ethylene Glycol is readily biodegradable (97-100% in 2-12 days).

BIOACCUMULATIVE POTENTIAL:

Ethylene glycol: A BCF of 10, reported for ethylene glycol in fish, Golden ide (*Leuciscus idus melanotus*), after 3 days of exposure suggests the potential for bio concentration in aquatic organisms is low.

MOBILITY IN SOIL: Ethylene glycol is highly mobile in soil.

OTHER ADVERSE EFFECTS: None known

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

PROPER SHIPPING NAME: N/A
UN NUMBER: N/A
PACKING GROUP: N/A
LABELS REQUIRED: N/A

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

CERCLA SECTION 103: Spills of this product over the RQ (reportable quantity) must be reported to the National Response Center. The RQ for this product, based on the RQ for Ethylene Glycol (3% maximum) is 166,500 lbs. Many states have more stringent release reporting requirements. Report spills required under federal, state, and local regulations.

EPA SARA 311/312 HAZARD CLASSIFICATION: Classified under OSHA Hazcom 2012 GHS classification as per Section 2 of this SDS.

EPA SARA 313: This Product Contains the Following Chemicals Subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372):

Ethylene Glycol	107-21-1	1-3%
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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.

CALIFORNIA PROPOSITION 65:

⚠️ WARNING: This product can expose you to chemicals including Ethylene Glycol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

EPA TSCA INVENTORY: All of the components of this material are listed on or exempt from 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 (DSL), or Non-Domestic Substances List (NDSL)

16. Other Information

NFPA RATING - FIRE: 0 HEALTH: 1 INSTABILITY: 0

REVISION SUMMARY: All sections due to formula revision.

SDS Date of Preparation/Revision: August 31, 2022

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.