SAFETY DATA SHEET

1. Product And Company Identification

SDS ID: SDS466
PRODUCT NAME: Prestone® Gas Treatment
PRODUCT NUMBER: AS720/E, 50013, AS-720
FORMULA NUMBER: 2156-148, 2156-153, 2488-2

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 fuel additive - consumer use
RESTRICTIONS ON USE: None identified

2. Hazards Identification

GHS/HAZCOM 2012 Classification:

Health	Physical
Acute Toxicity Category 4 (Inhalation, Oral, Dermal) Aspiration Toxicity Category 1 Carcinogen Category 2 Eye Irritant Category 2A Specific Target Organ Toxicity – Single Exposure Category 1 Specific Target Organ Toxicity – Single Exposure Category 3 (nervous system)	Flammable Liquid Category 2

Label Elements

DANGER!
H225 Highly flammable liquid and vapor.
H302+H 312+H332 Harmful if swallowed, in contact with skin and if inhaled.
H304 May be fatal if swallowed and enters airways.
H319 Causes serious eye irritation
H336 May cause drowsiness or dizziness
H351 Suspected of causing cancer
H370 Causes damage to eyes.

Prevention:
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground or bond container and receiving equipment
P241 Use explosion-proof electrical, ventilating, and lighting equipment.
P242 Use only non-sparking tools.
P243 Take action to prevent static discharge.
P260 Do not breathe vapors, or spray.
P264 Wash exposed skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves, protective clothing, and eye protection.
Response:
P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
P330 Rinse mouth.
P331 Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P312 Call a POISON CENTER or doctor if you feel unwell.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 Call a POISON CENTER or doctor if you feel unwell.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical attention.
P361 + P364 Immediately take off contaminated clothing and wash it before reuse.
P308 + P311 IF exposed or concerned: Call a POISON CENTER, or doctor.
P370 + P378 In case of fire: Use foam or dry chemical to extinguish.
Storage:
P403 + P233 + P235 Store in a well-ventilated place. Keep container tightly closed. Keep cool.
P405 Store locked up.
Disposal:
P501 Dispose of contents and container in accordance with local and national regulations.

3. Composition/Information on Ingredients

Component	CAS No.	Amount
Petroleum Distillates	8052-41-3 64742-47-8 64742-95-6	30-60%
Isopropyl Alcohol	67-63-0	15-40%
Methyl Alcohol (Methanol)	67-56-1	10-20%
Nonane	111-84-2	1-5%
1,2,4-Trimethylbenzene	95-63-6	1-5%
Naphthalene	91-20-3	<0.3%
Cumene	98-82-8	<0.5%

The exact concentrations are a trade secret.

4. First Aid Measures

INHALATION: Remove the victim to fresh air. If breathing has stopped administer artificial respiration. If breathing is difficult, have medical personnel administer oxygen. Get immediate medical attention.

SKIN CONTACT: Remove contaminated clothing. Immediately wash contacted area thoroughly with soap and water. If irritation persists, get medical attention.

EYE CONTACT: Immediately flush eyes with large amounts of water for 15 minutes. Get medical attention if irritation persists.

INGESTION: Seek immediate medical attention. Immediately call local poison control center or go to an emergency department. Never give anything by mouth to or induce vomiting in an unconscious or drowsy person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration into the lungs.

MOST IMPORTANT SYMPTOMS: Causes eye and skin irritation. Inhalation may cause headache, dizziness, drowsiness, nausea, vomiting, visual impairment, narcosis and unconsciousness. Methyl Alcohol may be absorbed through the skin in harmful amounts. Poisonous if swallowed. Ingestion may cause permanent blindness. This product is an aspiration hazard; product can enter the lungs during swallowing or vomiting and cause lung damage. Suspected of causing cancer based on animal data.

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

NOTES TO PHYSICIAN: If clinically indicated, stomach contents should be evacuated carefully in a manner which avoids aspiration. A serious potential effect is aspiration pneumonitis, which may lead to non-cardiogenic pulmonary edema. The patient should be observed for signs of lung injury if aspiration is suspected.

The combination of visual disturbances, metabolic acidosis and an osmol gap is evidence of methanol poisoning. Ethanol is antidotal and its early administration may block the formation of toxic metabolites of methanol. The objective is to rapidly achieve and maintain a blood ethanol level of approximately 100 mg/dl by giving a loading dose of ethanol followed by a maintenance dose. Intravenous administration of ethanol is the preferred route. Ethanol blood levels should be checked frequently. Hemodialysis may be required. 4-Methylpyrazole, a potent inhibitor of alcohol dehydrogenase, has been used therapeutically to decrease the metabolic consequences of methanol poisoning. Consult with a medical toxicologist or your poison control center.

5. Firefighting Measures

SUITABLE EXTINGUISHING MEDIA: Use foam or dry chemical to extinguish fire. Cool fire exposed containers with water. Do not spray directly into containers due to danger of boil over.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL: Flammable liquid and vapor. Flame may be invisible in daylight. Vapors are heavier than air and may flow along surfaces to distant ignition sources and flash back. Vapors will form explosive mixtures with air. Burning may produce carbon monoxide, carbon dioxide and nitrogen oxides.

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.

6: Accidental Release Measures

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES: Eliminate all ignition sources. Ventilate area. 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.

7. Handling and Storage

PRECAUTIONS FOR SAFE HANDLING: Harmful or Fatal if Swallowed! Do not swallow. Avoid eye and skin contact. Avoid breathing vapors or mists. Use only with adequate ventilation. Wash exposed skin thoroughly with soap and water after use. Flammable Liquid! Do not smoke during use.

Do not reuse empty containers unless properly cleaned. Empty containers retain product residues and may be hazardous. Do not flame cut, drill, weld, etc. on or near empty containers, even empty.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES: Keep container away from heat, sparks, open flames and all other sources of ignition. Store in a cool, well-ventilated area.

NFPA CLASSIFICATION: IB

8. Exposure Controls / Personal Protection

EXPOSURE GUIDELINES

CHEMICAL	EXPOSURE LIMIT
Petroleum Distillates	500 ppm TWA OSHA PEL 100 ppm TWA ACGIH TLV skin
Isopropyl Alcohol	400 ppm TWA OSHA PEL 200 ppm TWA ACGIH TLV 400 ppm STEL ACGIH TLV
Methyl Alcohol (Methanol)	200 ppm TWA OSHA PEL 200 ppm TWA ACGIH TLV skin 250 ppm STEL ACGIH TLV
Nonane	200 ppm TWA ACGIH TLV
1,2,4-Trimethylbenzene	25 ppm TWA ACGIH TLV
Naphthalene	10 ppm TWA OSHA PEL 10 ppm TWA ACGIH TLV skin 15 ppm ACGIH STEL
Cumene	50 ppm TWA OSHA PEL skin 50 ppm TWA ACGIH TLV

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 supplied air respirator or positive pressure self-contained breathing apparatus is recommended. Organic vapor cartridge respirators are not recommended for methanol vapor exposures. 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 Viton where contact is possible.

EYE PROTECTION: Splash-proof goggles.

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:	Clear, light yellow liquid	ODOR:	Hydrocarbon odor
ODOR THRESHOLD:	Isopropyl alcohol is 43 ppm. Methanol is 160 - 690 ppm.	pH:	Not applicable
MELTING/FREEZING POINT:	Not determined	BOILING POINT/RANGE:	164°F - 165°F (73.3°C – 73.9°C)
FLASH POINT:	52-55°F (11-12°C) Setaflash	EVAPORATION RATE: (Butyl Acetate = 1)	<1
FLAMMABILITY (SOLID, GAS)	Extremely Flammable	FLAMMABILITY LIMITS:	LEL: 2% (Isopropyl alcohol) UEL: 36% (Methanol)
VAPOR PRESSURE:	Not determined	VAPOR DENSITY: (Air=1)	>1
RELATIVE DENSITY:	0.78-0.81	SOLUBILITIES	Water: 40% - 50%
PARTITION COEFFICIENT (n-octanol/water)	Not determined	AUTOIGNITION TEMPERATURE:	Not determined
DECOMPOSITION TEMPERATURE:	Not determined	VISCOSITY:	Cst at 100°C: <1

10. Stability and Reactivity

REACTIVITY: Normally unreactive

CHEMICAL STABILITY: Stable

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

CONDITIONS TO AVOID: Heat, sparks, flames and all other sources of ignition.

INCOMPATIBLE MATERIALS: Strong bases, strong acids, strong oxidizing agents and reducing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Combustion will produce carbon monoxide, carbon dioxide and nitrogen oxides.

11. Toxicological Information

POTENTIAL HEALTH EFFECTS:

ACUTE HAZARDS:

INHALATION: May cause irritation of the nose and throat with headache, particularly from mists. High vapor concentrations may produce euphoria, nausea, vomiting, headache, dizziness, drowsiness, tingling, numbness and shooting pains in the hands and forearms, tremors, convulsions, visual disturbances, coma, respiratory arrest and death.

SKIN CONTACT: Prolonged contact with the skin may cause irritation with redness and defatting of the skin and absorption of harmful amounts of methanol.

EYE CONTACT: Liquid, vapors or mist may cause irritation of the eyes with persistent conjunctivitis, as seen as slight excess redness or conjunctiva. May cause permanent injury if not removed promptly.

INGESTION: Contains methanol. May cause abdominal discomfort or pain, nausea, vomiting, dizziness, drowsiness, headache, confusion, drunken behavior, central nervous system depression, coma and death. Visual effects from methanol include blurred vision, double vision, changes in color perception, restriction of visual fields and complete blindness. With massive overdoses of methanol, liver, kidney and heart muscle injury have been described. There may be a delay of several hours between swallowing methanol and the onset of signs and symptoms. 60-200 ml of methanol is a fatal dose for most adults. Ingestion of as little as 10 ml may cause blindness. Aspiration of the petroleum hydrocarbons in this product during ingestion or vomiting may cause lung inflammation and damage.

CHRONIC EFFECTS: Prolonged or repeated inhalation exposure may produce signs of central nervous system involvement, including nausea, vomiting, headache, ringing in the ears, dizziness, vertigo, cloudy and double vision. Prolonged overexposure to methanol at levels of 800-1000 ppm may result in severe eye damage. Reports have associated repeated and prolonged overexposure to petroleum distillates with adverse liver, kidney and bone marrow effects and with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the product may be harmful or fatal.

CARCINOGENICITY LISTING: Naphthalene and cumene are listed as possibly carcinogenic to humans (Group 2B) by IARC and is reasonably anticipated to be a carcinogen by NTP. None of the other components greater than 0.1% are listed as a carcinogen by IARC, NTP, ACGIH, or OSHA.

ACUTE TOXICITY VALUES:

Calculated ATE for product:	ATE Oral: 500 mg/kg ATE Dermal: 1200 mg/kg ATE Inhalation: 14.1 mg/L
Refined Petroleum Distillates:	LD50 Oral Rat: >5000 mg/kg LD50 Skin Rabbit: >2,000 mg/kg LC50 Inhalation rat: >5 mg/L/4 hr
Isopropyl Alcohol:	LD50 Oral Rat: 5045 mg/kg LD50 Skin Rabbit: 12,800 mg/kg LC50 Inhalation Rat: 16,000 ppm/8hr
Methanol:	LD50 Oral Rat: 9100 mg/kg LD50 Skin Rabbit: 15,940 mg/kg LC50 Inhalation Rat: 145,000 ppm/1 hr
Nonane:	LC50 Inhalation Rat: 32,000 ppm/4 hr.
1,2,4-Trimethylbenzene:	LD50 Oral Rat: 5,000 mg/kg LC50 Inhalation Rat: 18,000 mg/m3/4 hr
Naphthalene:	LD50 Oral Rat: 490 mg/kg LD50 Skin Rabbit: >20,000 mg/kg LC50 Inhalation Rat: >340 mg/m3/1 hr

Cumene: LD50 Oral Rat 2700 mg/kg
LD50 Skin Rabbit >3160 mg/kg
LC50 Inhalation Rat 22.1 mg/L/1 hr

12. Ecological Information

ECOTOXICITY:

Isopropyl Alcohol:
LC50 Fathead Minnows 11,130 mg/L/48 hr.
LC50 brown shrimp 1400 mg/L/48 hr.

Methanol: LC50 Fathead minnows 29,400 mg/L/96 hr.
EC50 Daphnia magna >10,000 mg/L/24 hr.

1,2,4-Trimethylbenzene:
LC50 Fathead Minnow 7.72 mg/L/96 hr.
EC50 Daphnia Magna 6.14 mg/L/48 hr.

Naphthalene: LC50 Oncorhynchus gorbuscha (pink salmon) 1.4 mg/L/96

PERSISTENCE AND DEGRADABILITY:
Isopropanol and Methanol: Readily biodegradable. Petroleum distillates are inherently biodegradable.
1,2,4-Trimethylbenzene: Reached 4-18% of its theoretical BOD in 4 weeks
Naphthalene: Reached 2% of its theoretical BOD in 4 weeks

BIOACCUMULATIVE POTENTIAL:
Isopropanol has an estimated BCF of 3 and methanol an estimated BCF of <10 suggesting that the potential for bioaccumulation is low.
Nonane: The potential for bio concentration in aquatic organisms is very high. BCF 12000
1,2,4-Trimethylbenzene: Bio concentration in aquatic organisms is moderate to high.
Naphthalene: BCF 23 to 146, these BCF values suggest the potential for bio concentration in aquatic organisms is low to high.

MOBILITY IN SOIL:
Isopropanol and Methanol: Very high
Nonane: Is expected to be immobile in soil. Kow 5.65
1,2,4-Trimethylbenzene: Will have low mobility in soil.
Naphthalene: Is expected to have moderate to low mobility in soil

OTHER ADVERSE EFFECTS: May be harmful to the aquatic environment.

13. Disposal Considerations

Dispose of product as hazardous waste (ignitable) in accordance with all local, state/provincial and federal regulations.

14. Transport Information

Consumer Commodity Status: This product is a consumer product and inner packaging 1 L/0.3 gal capacity or smaller and a gross mass for the package not exceeding 30 kg/66 lbs meet the criteria for shipment as a limited quantity for both ground and vessel shipment. The IMDG limited quantity provisions apply to shipments with inner packaging 1 L or smaller and gross mass for the package not exceeding 30 kg. Additionally limited quantities are exempted from marking of the UN number and Proper Shipping Name on the packaging (see IMDG Code 3.4).

U.S. DOT HAZARD CLASSIFICATION (For Ground Shipments Only)

Containers Not Over 1 Liter:
PROPER SHIPPING NAME: FLAMMABLE LIQUID, N.O.S. Limited Quantity
TECHNICAL NAME: (METHANOL, PETROLEUM DISTILLATES)
UN NUMBER: UN1993
HAZARD CLASS/PACKING GROUP: 3, II
LABELS REQUIRED: Limited Quantity Mark

Containers Over 1 Liter:
UN1993, FLAMMABLE LIQUID, N.O.S. (METHANOL, PETROLEUM DISTILLATES), 3, PG II

DOT MARINE POLLUTANTS: This product is not a US Marine Pollutant.

IMDG CODE SHIPPING CLASSIFICATION
This product is classified as a Marine Pollutant (Environmentally Hazardous Substance) in accordance with the IMDG Code and the UN Model Regulations. However, if it is packaged in either single packages or inner packagings in combination packages containing net quantities of less than 5 kg/5 L, the Marine Pollutant does not apply (IMDG Code 2.10.2.7).

Containers Not Over 1 Liter:
DESCRIPTION: UN1993, FLAMMABLE LIQUID, N.O.S. (METHANOL, PETROLEUM DISTILLATES), 3, PG II, FP 11C, LIMITED QUANTITIES
ID NUMBER: UN1993
HAZARD CLASS/PACKING GROUP: 3, II
LABELS REQUIRED: LIMITED QUANTITY
PLACARDS REQUIRED: LIMITED QUANTITY

Containers Over 1 Liter:
UN1993, FLAMMABLE LIQUID, N.O.S. (METHANOL, PETROLEUM DISTILLATES), 3, PG II
If inner packagings exceed 5 L, the following additional description applies: Marine Pollutant (1,2,4-Trimethylbenzene)

CANADIAN TDG CLASSIFICATION (For Ground Shipments Only)
Containers Not Over 1 Liter:
PROPER SHIPPING NAME: FLAMMABLE LIQUID, N.O.S. Limited Quantity
TECHNICAL NAME: (METHANOL, PETROLEUM DISTILLATES)
HAZARD CLASS/PACKING GROUP: 3, II
UN NUMBER: UN1993
LABELS REQUIRED: Limited Quantity Mark

Containers Over 1 Liter:
UN1993, FLAMMABLE LIQUID, N.O.S. (METHANOL, PETROLEUM DISTILLATES), 3, PG II

IATA/ICAO SHIPPING CLASSIFICATION:
These products are not suitable for shipment by air.

15. Regulatory Information

EPA SARA 311/312 HAZARD CLASSIFICATION: Acute health, chronic health, fire hazard

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

Methanol	67-56-1	10-20%
Pseudocumene	95-63-6	1-5%

(1,2,4-Trimethylbenzene)		
Naphthalene	91-20-3	<0.6%
Cumene	98-82-8	<0.5%

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: Spills of this product over the RQ (reportable quantity) must be reported to the National Response Center. The RQ for the product, based on the RQ for Methanol (20% maximum) of 5,000 lbs., is 25,000 lbs. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

CALIFORNIA PROPOSITION 65: This product contains the following chemicals which are known to the State of California cause cancer and/or reproductive harm:

Naphthalene	91-20-3	<0.05%	cancer
Methanol	67-56-1	10-20%	Developmental
Cumene	98-82-8	<0.5%	Cancer
Ethylbenzene	100-41-4	<30 ppm	cancer

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 (DSL).

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 (AICS).

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: Formula 2488-2: All of the ingredients of this product are listed on the Philippine Inventory of Chemical and Chemical Substance (PICCS)

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

NEW ZEALAND: All of the ingredients of this product are listed on the New Zealand Inventory of Chemicals (NZIoC).

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

16. Other Information

NFPA Rating: Fire: 3 Health: 2 Instability: 0

REVISION SUMMARY: Section 14 Transport Information

SDS Date of Preparation/Revision: January 20, 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 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 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.