



Safety Data Sheet

The Armor All/STP Products Company

44 Old Ridgebury Road
 Suite 300
 Danbury, CT 06810
 Tel. 1-203-205-2900

1. Product And Company Identification

Product Name: STP® Fuel System Cleaner for Ethanol Fuels

Responsible Party: The Armor All/STP Products Company
 44 Old Ridgebury Road
 Suite 300
 Danbury, CT 06810

Information Phone Number: +1 203-205-2900

Emergency Phone Number:

For Medical Emergencies, call 1-866-949-6465 / +1 303-389-1332 (Outside US and Canada)
 For Transportation Emergencies, call 1-800-424-9300 (Chemtrec) +1-703-527-3887 for
 Outside US and Canada (call collect)

SDS Date Of Preparation: 05/15/2015

Product Use and Uses Advised Against: Automotive maintenance product – For consumer and professional use

2. Hazards Identification

Note: This product is a consumer product and is labeled in accordance with the Consumer Product Safety Commission regulations and not OSHA regulations. The requirements for the labeling of consumer products take precedence over OSHA labeling so the actual product label will not contain the OSHA label elements shown below on this SDS.

GHS Classification:

Physical:	Health:
Flammable Liquid Category 3	Eye Irritation Category 2A Skin Irritation Category 2 Carcinogen Category 2 Specific Target Organ Toxicity Category 3 (Respiratory Irritation) Aspiration Hazard Category 1

GHS Label Elements:



Danger!

Statements of Hazard

Flammable liquid and vapor
 May be fatal if swallowed and enters airways
 Causes skin irritation
 Causes serious eye irritation
 May cause respiratory irritation.
 Suspected of causing cancer

Precautionary Statements Prevention

Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Keep away from heat, sparks, open flames, and hot surfaces. -
 No smoking.
 Keep container tightly closed.



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Response

IF SWALLOWED: Immediately call a POISON CENTER or doctor
Do NOT induce vomiting.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
If skin irritation occurs: Get medical attention. Wash contaminated clothing before reuse.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a POISON CENTER or doctor if you feel unwell.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical attention.
IF exposed or concerned: Get medical advice.
In case of fire: Use water fog, foam, carbon dioxide or dry chemical to extinguish.

Prevention – cont.

Ground or Bond container and receiving equipment.
Use explosion-proof electrical, ventilating, lighting, or equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Avoid breathing mist, vapors or spray.
Wash exposed skin thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves, protective clothing, and eye protection.

Storage

Store in a well-ventilated place. Keep cool. Keep container tightly closed.
Store locked up.

Disposal

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

Hazards not otherwise specified: None

Percentage of unknown toxicity: N/A

3. Composition/Information On Ingredients

Component	CAS No.	Amount
Solvent naphtha (petroleum), light aromatic	64742-95-6	25- 55%
Alkylphenol polyoxyalkyl alkylamine	Proprietary	25-55%
Hydrosulfurized Kerosene	64742-81-0	10-20%
1,2,4-Trimethylbenzene	95-63-6	10-20%
1,3,5-Trimethylbenzene	108-67-8	5-10%
Propylbenzene	103-65-1	5-10%
1,2,3-Trimethylbenzene	526-73-8	1-5%
Xylene	1330-20-7	1-5%
Cumene	98-82-8	1-5%
Naphthalene	91-20-3	<2%
Ethyl benzene	100-41-4	<1%

The specific identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

4. First Aid Measures

Inhalation: If symptoms of exposure develop, remove to fresh air. If breathing becomes difficult, administer oxygen. If breathing has stopped, administer artificial respiration. Get medical attention if symptoms appear and persist.

Skin Contact: Remove contaminated clothing and launder before reuse. Wash exposed skin with soap and water. If skin irritation or redness develops, get medical attention.



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Eye Contact: Flush eyes with large amounts of water for 15 minutes. If irritation or other symptoms persist, get medical attention.

Ingestion: DO NOT induce vomiting. If the victim is fully conscious, have them rinse their mouth with water. Get medical assistance by calling a doctor or poison center. Never give anything by mouth to a person who is unconscious or drowsy.

Most Important Symptoms: Eye and skin irritant. Inhalation of mists or vapors may cause irritation to upper respiratory tract. Aspiration hazard – may enter the lungs during swallowing or vomiting and cause serious lung damage, which may be fatal. Ingestion may also cause gastrointestinal effects such as nausea, vomiting and diarrhea and central nervous system effects. Contains materials that may cause cancer based on animal data. This risk of cancer depends on the level and duration of exposure.

Indication of Immediate Medical Attention/Special Treatment: Immediate medical treatment is required for ingestions which may result in an aspiration hazard. Material may enter the lungs during swallowing or vomiting and cause serious lung damage, which may be fatal.

5. Firefighting Measures

Suitable (and Unsuitable) Extinguishing Media: Use water fog, foam, carbon dioxide or dry chemical. Cool fire exposed containers with water.

Specific Hazards Arising from the Chemical: Flammable liquid and vapor. Vapors may accumulate in confined areas and present a fire or explosion hazard. Vapors may be heavier than air and travel along surfaces to remote ignition sources and flash back. Closed containers may rupture if exposed to extreme heat. Burning may produce carbon monoxide, carbon dioxide and oxides of nitrogen.

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: Caution – slip hazard. Eliminate all ignition sources and ventilate the area. Wear appropriate protective equipment.

Methods and Materials for Containment and Clean-Up: Stop spill at the source if it is safe to do so. Absorb with an inert material. Collect into a suitable container for disposal. Clean area as appropriate since spilled materials, even in small quantities, may present a slip hazard.

Environmental Precautions: Prevent entry in storm sewers and waterways. Report spill as required by local and national regulations. Notify the National Response Center if a spill of any amount enters navigable waters, the contiguous zone, or adjoining shorelines.

7. Handling and Storage

Precautions for Safe Handling:

Avoid contact with eyes, skin and clothing. Avoid breathing vapors and mists. Wash exposed skin thoroughly with soap and water after use. Keep containers closed when not in use. Do not permit smoking in use or storage areas. Keep out of the reach of children.



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Empty containers retain product residue and may be hazardous. Do not reuse empty containers.

Conditions for Safe Storage, Including any Incompatibilities:

Store in a cool, dry, well-ventilated area. Keep container tightly closed. Store locked up. Store away from oxidizing agents and other incompatible materials. Keep away from open flames, sparks, and excessive heat.

8. Exposure Controls / Personal Protection

CHEMICAL	EXPOSURE LIMIT
Solvent naphtha (petroleum), light aromatic	5 mg/m ³ TWA OSHA PEL (As oil mist) 5 mg/m ³ TWA ACGIH TLV (Inhalable)
Alkylphenol polyoxyalkyl alkylamine	None Established
Hydrosulfurized Kerosene (as total hydrocarbon vapor)	200 mg/m ³ skin TWA ACGIH TLV
1,2,4-Trimethylbenzene	25 ppm TWA ACGIH
1,3,5-Trimethylbenzene	25 ppm TWA ACGIH
Propylbenzene	None Established
1,2,3-Trimethylbenzene	25 ppm TWA ACGIH
Xylene	100 ppm TWA OSHA PEL 100 ppm TWA, 150 ppm STEL ACGIH TLV
Cumene	50 ppm TWA OSHA PEL (Skin) 50 ppm TWA ACGIH TLV
Naphthalene	10 ppm TWA OSHA PEL 10 ppm TWA ACGIH TLV (Skin)
Ethyl benzene	100 ppm TWA OSHA PEL 20 ppm TWA ACGIH TLV

Ventilation: General ventilation should be adequate for all normal use. For operations where the exposure limits may be exceeded, forced ventilation such as local exhaust may be needed to maintain exposures below applicable limits.

Respiratory Protection: None under normal use conditions. For operations where the exposure limits are exceeded, a NIOSH approved respirator with an organic vapor cartridge or supplied air respirator is recommended. Equipment selection depends on contaminant type and concentration. Select in accordance with 29 CFR 1910.134 and good industrial hygiene practice. For firefighting, use self-contained breathing apparatus.

Gloves: Impervious gloves such as neoprene or nitrile are recommended if needed to avoid prolonged or repeated skin contact.

Eye Protection: Safety glasses or goggles are recommended if eye contact is possible.

Other Protective Equipment/Clothing: Appropriate protective clothing as needed to prevent prolonged or repeated skin contact.

9. Physical and Chemical Properties

Appearance and Odor: Clear, colorless to light amber, thin colored liquid with a hydrocarbon odor.

Physical State: Liquid	Odor Threshold: Not available
pH: Not applicable	Vapor Pressure: 3.2 mmHg @ 20°C



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Initial Boiling Point/Range: Not determined	Vapor Density: >1
Melting/Freezing Point: Not determined	Percent Volatile: 100%
Solubility In Water: Insoluble	Evaporation Rate: Not determined
Viscosity: Not determined	VOC Content: Not determined
Specific Gravity: 0.91	Autoignition Temp: Not determined
Coefficient Of Water/Oil Distribution: Not determined	Flame extension: Not applicable
Flash Point: 111°F (44°C) CC minimum	Flammability (solid, gas): Not applicable
Flammability Limits: LEL: 0.6 (kerosene) UEL: 4.7 (kerosene)	Decomposition Temperature: Not available

10. Stability and Reactivity

Reactivity: Not normally reactive

Chemical Stability: Stable under normal storage and handling conditions.

Conditions to Avoid: Keep away from excessive heat and open flames.

Incompatible Materials: Strong oxidizing agents and reducing agents

Hazardous Decomposition Products: Burning may produce carbon monoxide, carbon dioxide and oxides of nitrogen.

11. Toxicological Information

Potential Health Effects:

Acute Hazards:

Inhalation: Inhalation of mists or vapors may cause irritation to upper respiratory tract.

Skin Contact: Causes skin irritation. Prolonged or repeated contact may cause defatting and drying of the skin and dermatitis.

Eye Contact: Causes eye irritation with redness, tearing and pain.

Ingestion: Aspiration hazard – may enter the lungs during swallowing or vomiting and cause serious lung damage, which may be fatal. Ingestion may also cause gastrointestinal effects such as nausea, vomiting and diarrhea and central nervous system effects with symptoms of drowsiness, headache, dizziness and unconsciousness.

Chronic Effects: Prolonged or repeated overexposure may cause adverse effects on the blood, kidneys, liver, and heart.

Carcinogenicity Listing: Naphthalene, Cumene and Ethylbenzene are classified by IARC as a possible human carcinogen (group 2B). Naphthalene and Cumene are classified by NTP as a reasonably anticipated human carcinogen.

None of the other ingredients of this product are listed as carcinogens by IARC, NTP, or OSHA.

Numerical Measures of Toxicity:

Product Calculated ATE: LD50 Oral: >5000 mg/kg
LD50 Skin: >2000 mg/kg
LC50 Inhalation: >25 mg/L

Solvent naphtha (petroleum), light aromatic:
LD50 Oral Rat: 3500 mg/kg
LD50 Skin Rabbit: >3160 mg/kg



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Alkylphenol polyoxyalkyl alkylamine:

Not acutely toxic

Hydro-sulfurized Kerosene: LD50 Oral Rat: >5000 mg/kg
LD50 Skin Rabbit: >2000 mg/kg
LC50 Inhalation Rat: >5.28 mg/L/4 hr.

1,2,4-Trimethylbenzene: LD50 Oral Rat: 3280 mg/kg
LD50 Skin Rabbit >3160 mg/kg
LC50 Inhalation Rat: 18 mg/L/4 hr.

1,2,5-Trimethylbenzene: LD50 Oral Rat: 6000 mg/kg
LD50 Skin Rabbit >4000 mg/kg
LC50 Inhalation Rat: 24 mg/L/4 hr.

Propylbenzene: LD50 Oral Rat: >2000 mg/kg

1,2,3-Trimethylbenzene: LDLo Oral Rat >1000 ml/kg

Xylene: LD50 Oral Rat: 4300 mg/kg
LD50 Skin Rabbit: >1700mg/kg
LC50 Inhalation Rat: 5000 ppm/4 hr

Cumene: LD50 Oral Rat: 2910 mg/kg
LD50 Skin Rabbit 10578 mg/kg
LC50 Inhalation Rat 8000 ppm/4 hr

Naphthalene: LD50 Oral Rat: 2200-2600 mg/kg
LD50 Skin Rabbit >2000 mg/kg

Ethylbenzene: LD50 Oral Rat: 3500 mg/kg

12. Ecological Information

Ecotoxicity:

Solvent naphtha (petroleum), light aromatic:

LC50: Oncorhynchus mykiss 9.22 mg/L/96 hr.
EC50: Daphnia Magna: 6.14 mg/L/48 hr.

Hydro-sulfurized Kerosene: EL50: Daphnia Magna: 1.4 mg/L/48 hr.

1,2,4-Trimethylbenzene: LC50: Oncorhynchus mykiss 9.22 mg/L/96 hr.
EC50: Daphnia Magna: 6.14 mg/L/48 hr.

1,3,5-Trimethylbenzene: LC50: Carassius auratus 12.52 mg/L/96 hr.
EC50: Daphnia Magna: 6 mg/L/48 hr.

Xylene: LC50: Rainbow Trout 13.5 mg/L/96 hr.

Cumene: LC50: Fathead Minnow 6.32 mg/L/96 hr.
LC50: Daphnia 3.44 mg/L/48 hr.



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Naphthalene: LC50 Oncorhynchus gorboscha (pink salmon) 1.4 mg/L/96
LC50 Daphnia magna (Water flea) 2.16 mg /L/48 hr.

Ethylbenzene: LC50 Pimephales promelas (fathead minnow) 14.4 mg/l /96 hr.

Persistence and Degradability:

Hydrosulfurized Kerosene: 58.6 % in 28 days

1,3,5-Trimethylbenzene: No biodegradation within 180 hrs.

Propylbenzene: Biodegradation from water may occur based on activated sludge studies, with theoretical BODs ranging from 21.8 to 43.7%

Xylene: Readily biodegradable

Cumene: Not readily biodegradable

Naphthalene: Reached 2% of its theoretical BOD in 4 weeks

Ethylbenzene: After a period of inocula adaptation, ethylbenzene is biodegraded fairly rapidly by sewage or activated sludge inoculua.

Bio accumulative Potential:

1,3,5- Trimethyl- Benzene: BCF of 161: Non- bioaccumulative.

Propylbenzene: The potential for bioconcentration in aquatic organisms is high. BCF 138

Xylene: BCF of 6 – 23.4

Cumene: Not likely to bio accumulate in aquatic organisms

Naphthalene: BCF 23 to 146, these BCF values suggest the potential for bio concentration in aquatic organisms is low to high.

Ethylbenzene: BCF of 15.

Mobility in Soil:

Propylbenzene: Expected to have low mobility in soil.

Xylene: Low mobility in soil.

Cumene: Low mobility in soil.

Naphthalene: Is expected to have moderate to low mobility in soil.

Other Adverse Effects: No data available

13. Disposal Considerations

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

14. Transport Information

DOT Hazardous Materials Description: Not Regulated in non-bulk packagings (119 gallons and smaller).

Canadian TDG Hazardous Materials Description: Not Regulated in small means of containment

IMDG Dangerous Goods Description: UN1268, Petroleum Distillates, n.o.s., 3, III, limited quantity, Marine Pollutant

15. Regulatory Information

United States:



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

CERCLA Section 103: This product has an RQ of 2000 lbs based on the RQ for xylene and cumene of 100 lbs. present at 5% maximum. Oil spills must be reported to the National Response Center. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

SARA Hazard Category (311/312): Acute Health, Chronic Health, Fire Hazard

SARA 313: This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372):

- 1,2,4-Trimethylbenzene 10-20%
- Xylene 1-5%
- Cumene 1-5%
- Naphthalene <2%
- Ethyl Benzene <1%

Canada:

Canadian Environmental Protection Act: All of the ingredients are listed on the Canadian Domestic Substances List.

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

Other International:

European Union: All of the components of this product are listed on the European Inventory of New and Existing Chemical Substances (EINECS) inventory.

Japan: All of the components are listed on Japanese MITI inventory.

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

Philippines: All of the components of this product are listed on the Philippine Inventory of Chemicals and Chemical Substances (PICCS).

16. Other Information

NFPA Rating (NFPA 704):	Health: 2	Fire: 2	Instability: 0
HMIS Rating:	Health: 2*	Fire: 2	Physical Hazard: 0

REVISION SUMMARY: May 16, 2015: Update to HazCom 2012 GHS SDS format. Changes to all Sections.

DATA SUPPLIED IS FOR USE ONLY IN CONNECTION WITH OCCUPATIONAL SAFETY AND HEALTH