



# 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® ULTRA 5in1 PLUS Fuel System Cleaner + Fuel Stabilizer

**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:** 01/24/2017

**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	Aspiration Hazard Category 1 Eye Irritation Category 2A Skin Irritation Category 2 Carcinogen Category 2 Skin Sensitizer Category 1 Specific Target Organ Toxicity Single Exposure Category 3 (Respiratory Irritant, Central Nervous System effects)

**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 an allergic skin reaction  
May cause respiratory irritation  
May cause drowsiness or dizziness  
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.  
Ground and bond container and receiving equipment  
Use explosion-proof electrical, ventilating and lighting equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Avoid breathing mist, vapors or spray.  
Wash thoroughly after handling.



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### Prevention Cont.

Contaminated work clothing must not be allowed out of the workplace.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves, eye protection, and protective clothing.

### Storage

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

### Disposal

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

### 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.  
If skin irritation or rash 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.

**Hazards not otherwise specified:** None

## 3. Composition/Information on Ingredients

Component	CAS No.	Amount
Solvent naphtha, heavy aromatic	64742-94-5	70-80%
1,2,4-Trimethylbenzene	95-63-6	10-20%
Petroleum distillates, hydrotreated light	64742-47-8	5-10%
Naphthalene	91-20-3	5-10%
Polyether amine	Proprietary	5-10%
Mineral Oil	64742-46-7	1-5%
Isopropyl alcohol	67-63-0	1-5%
1,3,5-Trimethylbenzene	108-67-8	1-5%
1,2,3-Trimethylbenzene	526-73-8	1-5%
Alkyl aminoester	Proprietary	<1%
Alkarylamine	Proprietary	<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, redness or rash develops, get medical attention.

**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



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unconscious or drowsy.

**Most Important Symptoms:** Eye and skin irritant. May cause an allergic skin reaction. Inhalation of mists or vapors may cause respiratory irritation and central nervous system effects such as dizziness, drowsiness, headache and nausea. 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 exposure 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 sulfur dioxide.

**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.

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. Store locked up, away from oxidizing agents and other incompatible materials. Keep away from open flames, sparks, and excessive heat.



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## 8. Exposure Controls / Personal Protection

CHEMICAL	EXPOSURE LIMIT
Solvent naphtha, heavy aromatic	None Established
1,2,4-Trimethylbenzene	25 ppm TWA ACGIH
Petroleum distillates, hydrotreated light	5 mg/m <sup>3</sup> TWA OSHA PEL (As oil mist) 5 mg/m <sup>3</sup> TWA ACGIH TLV (Inhalable)
Naphthalene	10 ppm TWA OSHA PEL 10 ppm TWA ACGIH TLV (Skin)
Polyether amine	None Established
Mineral Oil	5 mg/m <sup>3</sup> TWA OSHA PEL (As oil mist) 5 mg/m <sup>3</sup> TWA ACGIH TLV (Inhalable)
Isopropyl alcohol	400 ppm TWA OSHA PEL 200 ppm TWA, 400 ppm STEL ACGIH TLV
1,3,5-Trimethylbenzene	25 ppm TWA ACGIH
1,2,3-Trimethylbenzene	25 ppm TWA ACGIH
Alkyl aminoester	None Established
Alkarylamine	None Established

**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:** Amber liquid with a mild amine odor.

<b>Physical State:</b> Liquid	<b>Odor Threshold:</b> Not available
<b>pH:</b> Not applicable	<b>Vapor Pressure:</b> Not determined
<b>Initial Boiling Point/Range:</b> 180°F (82°C)	<b>Vapor Density:</b> Not determined
<b>Melting/Freezing Point:</b> Not determined	<b>Percent Volatile:</b> 100%
<b>Solubility In Water:</b> Insoluble	<b>Evaporation Rate:</b> Not determined
<b>Viscosity:</b> 1.83 mm <sup>2</sup> /s at 40°C	<b>VOC Content:</b> Not determined
<b>Specific Gravity:</b> 0.88 – 0.91	<b>Autoignition Temp:</b> Not determined
<b>Coefficient Of Water/Oil Distribution:</b> Not determined	<b>Flame extension:</b> Not determined
<b>Flash Point:</b> 95°F (35°C) PMCC	<b>Flammability (solid, gas):</b> Not applicable
<b>Flammability Limits:</b> LEL: Not Determined UEL: Not Determined	<b>Decomposition Temperature:</b> Not available



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### 10. Stability and Reactivity

**Reactivity:** Not normally reactive

**Chemical Stability:** Stable under normal storage and handling conditions

**Possibility of Hazardous Reactions:** None known.

**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 sulfur dioxide.

### 11. Toxicological Information

#### Potential Health Effects:

##### **Acute Hazards:**

**Inhalation:** Inhalation of mists or vapors may cause upper respiratory tract irritation and central nervous system effects such as dizziness, drowsiness, headache and nausea.

**Skin Contact:** Causes skin irritation. Prolonged or repeated contact may cause defatting and drying of the skin and dermatitis. May cause an allergic skin reaction.

**Eye Contact:** Direct 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 is classified by IARC as a possible human carcinogen (group 2B). Naphthalene is classified by NTP as a reasonably anticipated human carcinogen. None of the other components at 0.1% or greater are listed as a carcinogen or potential carcinogen by IARC, NTP, or OSHA.

#### Numerical Measures of Toxicity:

Product Calculated ATE:	LD50 Oral: >2000 mg/kg LD50 Skin: >2000 mg/kg LC50 Inhalation: >25 mg/L.
Solvent naphtha, heavy aromatic:	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.
Petroleum distillates, hydrotreated light:	LD50 Oral Rat: 3500 mg/kg LD50 Skin Rabbit: >3160 mg/kg
Naphthalene:	LD50 Oral Rat: 2200-2600 mg/kg LD50 Skin Rabbit >2000 mg/kg LC50 Inhalation Rat: >0.4 mg/L/4hr. >77.7 ppm (no mortalities)
Polyether amine:	No data available



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Mineral Oil:	LD50 Oral Rat: 5000 mg/kg LD50 Skin Rabbit >2000 mg/kg LC50 Inhalation Rat: 1.72 – 4.6 mg/L/4 hr.
Isopropyl alcohol:	LD50 Oral Rat: 5045 mg/kg LD50 Skin Rabbit 12800 mg/kg LC50 Inhalation Rat: 72.6 mg/L/4 hr.
1,3,5-Trimethylbenzene:	LD50 Oral Rat: 6000 mg/kg LD50 Skin Rat: >4000 mg/kg LC50 Inhalation Rat: 24,000 mg/m <sup>3</sup> /4 hr.
1,2,3-Trimethylbenzene:	LD50 Oral Rat: 3280 mg/kg LD50 Skin Rabbit >3160 mg/kg LC50 Inhalation Rat: 18 mg/L/4 hr.
Alkyl aminoester:	No data available
Alkarylamine:	No data available

### 12. Ecological Information

**Ecotoxicity: Classified as chronic aquatic toxicity based on the GHS criteria.**

Solvent naphtha, heavy aromatic:

LL50: Oncorhynchus mykiss 25 mg/L/96 hr.  
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.

Petroleum distillates, hydrotreated light:

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

Naphthalene: LC50: Oncorhynchus gorbuscha (pink salmon) 0.96ppm 48 hr.  
LC50 Daphnia magna (Water flea) 2.16 mg /L/48 hr.

Mineral Oil: LL50: Fish 1.13 mg/L/96 hr.

Isopropyl alcohol: LC50 Fathead Minnow 6550 mg/L/96 hr.

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

**Persistence and Degradability:**

Solvent naphtha, heavy aromatic: 58.6 % in 28 days

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

Mineral Oil: 60 % in 28 days

Isopropyl alcohol: Readily biodegradable

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

**Bio accumulative Potential:**

1,2,4-Trimethylbenzene: Log Kow: 3.63

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

1,3,5-Trimethylbenzene: BCF of 161

**Mobility in Soil:**

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



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Isopropyl alcohol: Highly mobile 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

Packages containing inner containers of < 5 L (1.3 gal) can be shipped as limited quantities by ground or vessel.

#### **DOT Hazardous Materials Description:**

UN1993, Flammable liquids, n.o.s. (1,2,4-trimethylbenzene, Polyetheramine), 3, III

#### **Canadian TDG Hazardous Materials Description:**

UN1993, Flammable liquids, n.o.s. (1,2,4-trimethylbenzene, Polyetheramine), 3, III

#### **IMDG Dangerous Goods Description:**

UN1993, Flammable liquids, n.o.s. (1,2,4-trimethylbenzene, Polyetheramine), 3, III

If single or inner container exceeds 5 L / 5 kg, Marine Pollutant provisions apply to DOT and IMDG transport as applicable.

### 15. Regulatory Information

#### **United States:**

**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 1000 lbs based on the RQ for naphthalene of 100 lbs. present at 10% 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 20-30%  
Naphthalene 5-10%

#### **Canada:**

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

#### **Other International:**

**European Union:** All of the components of this product are listed on the European Inventory of New and Existing





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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).

**China:** All of the components of this product are listed on the Inventory of Existing Chemical Substances in China. (IECSC).

**Australia:** All of the components of this product are listed on the Australia (AICS).

**New Zealand:** All components are in compliance with chemical notification requirements in New Zealand. (NZIoC)

**Taiwan:** All components of this product are listed on the Taiwan inventory. (TCSCA)

### 16. Other Information

NFPA Rating (NFPA 704):	Health: 2	Fire: 3	Instability: 0
HMIS Rating:	Health: 2*	Fire: 3	Physical Hazard: 0

\*Chronic health hazard

DATE OF CURRENT REVISION: 01/24/2017

REVISION SUMMARY: Formulation change, Change in classification, and Name change: Changes to all sections.

DATE OF PREVIOUS REVISION: 05/12/2016

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