

STP® Super Concentrated Fuel Injector Cleaner

1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

STP® Super Concentrated Fuel Injector Cleaner

Manufactured for:
The Armor All / STP Products Company
 1221 Broadway
 Oakland, CA 94612
 Telephone: (510)271-7000

Product Type Gasoline Additive

Stock ST2073, ST2073CAN, ST2075, ST2075CAN, ST2075SP, ST2075AU, ST2078, ST2078AU, ST2375, 9553X, 9552X,

Formula 13626-163, 13668-149A

Emergency Phone Numbers For Medical Emergencies Call: 1-800-446-1014 For Transportation Emergencies Call: 1-800-424-9300 (Chemtrec)

2 COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Materials	Material	%	CAS #	Exposure Limit	Source
	Petroleum Distillates	80-100	8008-20-6 64742-81-0 64742-95-6	100 ppm TWA 500 ppm TWA	(2) (1)
	Naphthalene	0-2	91-20-3	10 ppm TWA 15 ppm STEL	(3) (2)
	Proprietary Ingredients	1-5	Mixture	None Established	(3)

None of the ingredients is listed as a carcinogen or potential carcinogen by IARC, NTP or OSHA.

The Permissible Exposure Limits (PEL) reported above are the pre-1989 limits that were reinstated by OSHA following a decision by the 11th Circuit Court of Appeals. These PELs are being enforced by Federal OSHA. Be aware that more restrictive limits may be enforced by some states. The Armor All / STP Products Company recommends that the lower exposure limits be observed as reasonable worker protection.

The source for exposure limits listed above are:

1. OSHA Permissible Exposure Limit (PEL)
2. ACGIH Threshold Limit Value (TLV)
3. Both the OSHA PEL and ACGIH TLV
4. Recommended by the Manufacturer

3 HAZARDS IDENTIFICATION

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Principal Hazards

Warning

- Accidental ingestion of a small amount of this material may cause gastrointestinal disturbances including irritation, nausea, vomiting and diarrhea. A very large ingestion could result in headache, dizziness, coma, respiratory arrest and death.
- This material is an aspiration hazard; product can enter the lungs during swallowing or vomiting and cause lung damage.
- Irritating to the eyes, skin and respiratory tract.
- Breathing vapors may cause harmful central nervous system effects including headache, dizziness drowsiness, loss of consciousness and death.
- Combustible liquid. Product may present a moderate fire and explosion hazard.
- May cause chronic health effects.

See Section 11 for complete health hazard information

KEEP OUT OF REACH OF CHILDREN

4**FIRST AID****Swallowing**

Get immediate medical attention by calling a Poison Control Center or hospital emergency room. Do not make person vomit unless instructed to do so by medical personnel. If medical advice cannot be obtained, then take the person and product to the nearest medical for emergency treatment center or hospital. If vomiting occurs spontaneously, keep head below hips to prevent aspiration into the lungs.

Skin

Remove contaminated clothing immediately. Wash all affected and exposed areas with soap and water. If skin irritation or redness persists seek medical attention.

Inhalation

Remove affected person from source of exposure. If breathing becomes difficult, administer oxygen. Administer artificial respiration if breathing has stopped. Seek medical attention.

Eyes

Exposed eyes should be immediately flushed with copious amounts of water using a steady stream for a minimum of 15 minutes. If irritation, pain, swelling or tearing persist, seek medical attention.

4**FIRST AID (continued)**

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Notes To Physician

There is no specific antidote. Treatment should be directed at the control of symptoms and clinical conditions. If clinically indicated, stomach contents should be evacuated quickly in a manner which avoids aspiration. A serious potential toxic 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. Large ingestions may result in naphthalene toxicity with hemolysis, fever, anemia, methemoglobinemia, seizures, acute renal failure and coma especially in patients with glucose-6-phosphate dehydrogenase deficiency, sickle cell anemia or sickle trait.

5 FIRE FIGHTING MEASURES

Flash Point (Method)	130-152 °F (54-66 °C) (Setaflash)
Upper Flammable Limit	Not determined
Lower Flammable Limit	Not determined
Extinguishing Media	Water fog, foam, carbon dioxide, dry chemical
Special Firefighting Procedures	Use positive pressure self contained breathing apparatus when entering a confined space.
Unusual Fire and Explosion Hazards	Combustible liquid. Product may form combustible mixtures at temperatures at or above the flashpoint. Vapors are heavier than air and may travel along surfaces to a remote ignition source and flash back.
Combustion Decomposition	Carbon monoxide, carbon dioxide, oxides of nitrogen and asphyxiants.
Auto-ignition Temperature	Not determined
Explosion Data	Vapors may form explosive mixtures with air. Runoff to sewer may cause fire or explosion hazard.

6 ACCIDENTAL RELEASE MEASURES

Spill	Wear appropriate personal protective equipment and remove all sources of ignition. Collect material for disposal in a container suitable for flammable waste.
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7 HANDLING AND STORAGE

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Handling Procedures

- Harmful or Fatal if Swallowed. Contains kerosene.
- Avoid contact with eyes.
- Avoid contact with the skin and clothing.
- Avoid breathing vapors.
- Keep away from heat sources, sparks and flame.
- Wash exposed skin with soap and water after use.
- Use only with adequate ventilation.
- Keep containers closed when not in use.
- Empty containers may retain hazardous residues.
- Do not cut or weld on or near empty or full drums.

Storage Procedures

Do not store near potential sources of ignition. Store in a cool, dry well ventilated area away from heat, oxidizers and all sources of ignition.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation Procedures

General ventilation should be adequate for normal use. For operations where the TLV may be exceeded, mechanical ventilation such as local exhaust may be needed to maintain exposure levels below applicable limits.

Gloves Protection

Chemical resistant gloves such as neoprene or nitrile recommended where needed to prevent prolonged / repeated skin contact.

Eye Protection

Safety glasses or splash-proof goggles recommended if needed to prevent eye contact.

Respiratory Protection

None needed under normal use conditions. For operations where the TLV may be exceeded, a NIOSH/MSHA approved organic vapor respirator 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.

**Clothing
Recommendation**

Protective clothing if needed to avoid prolonged / repeated 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

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Vapor Pressure	Not determined
pH	Not applicable
Specific Gravity	6.5-7.0 lbs/gal
Water Solubility	Less than 0.1%
Percent Volatile	100%
Vapor Density	Greater than air
Evaporation Rate	Not determined
Odor	Hydrocarbon odor.
Appearance	Clear to straw colored liquid.
Viscosity	Approximately 2 Cst @ 100° C
Boiling Point	Greater than 320°F
Freezing Point	Not determined

10 STABILITY AND REACTIVITY

Stability	Stable
Incompatibility	Strong oxidizing agents
Polymerization	Will not occur
Hazardous Decomposition	Burning can produce carbon monoxide, carbon dioxide, oxides of nitrogen and asphyxiants.

11 TOXICOLOGICAL INFORMATION

Oral Toxicity	Swallowing may cause gastrointestinal disturbances including irritation, abdominal pain, belching, nausea, vomiting, frequent loose stools and diarrhea. Ingestion of large quantities may cause harmful central nervous system effects similar to those listed under "Inhalation". This material is an aspiration hazard; product can enter the lungs during swallowing or vomiting and cause lung inflammation and damage.
Eye Irritation	This product is not expected to cause prolonged or significant eye irritation. The hazard evaluation is based on data from similar materials.

11 TOXICOLOGICAL INFORMATION (continued)

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Skin Irritation	May cause irritation, seen as localized reddening and swelling. Prolonged or repeated exposures to this material may cause redness, burning and drying and cracking of the skin.
Dermal Toxicity	Absorption as from prolonged or massive skin contact may result in toxicity.
Inhalation Toxicity	Excessive inhalation of vapor or mist may cause irritation of the nose, throat and respiratory tract. May cause harmful central nervous system effects including euphoria, headache, dizziness, drowsiness, blurred vision, fatigue, tremors, convulsions, loss of consciousness, coma, respiratory arrest and death.
Acute Toxicity Values	Petroleum Distillates: LD50 Oral rat: >5 gm/kg LC50 Inhalation rat: >5500 mg/m ³ /4 hr Naphthalene: LD50 Oral rat: 490 mg/kg LC50 Inhalation rat: >340 mg/m ³ /1 hr LD50 Skin rabbit: >20 gm/kg
Sensitization	Based on data from the components this product is not expected to cause skin or respiratory sensitization.
Chronic Toxicity	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	This product contains kerosene. Repetitive direct skin application of kerosene over a two year period resulted in skin cancer in laboratory animals. Petroleum hydrocarbons of similar composition and boiling ranges have been known to produce kidney damage and tumors in male rats following prolonged inhalation exposures.
Mutagenicity	Kerosene products have been positive in mutagenic test systems.
Reproductive Toxicity and Teratogenicity	Light aromatic solvent naphtha has been found to cause adverse reproductive effects in laboratory animals.

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ECOLOGICAL INFORMATION

**Aquatic/Terrestrial
Toxicity
Environmental Fate**

No data is available at this time.

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DISPOSAL CONSIDERATIONS

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Waste Disposal Waste material is a RCRA hazardous waste due to ignitibility.
Incinerate in accordance with federal, state and local regulations.

14	TRANSPORT INFORMATION
U.S. DOT Non-Bulk Shipping Description	None - Excepted from Hazmat Regulations
ID Number	None
Hazard Class	None
Packing Group	None
Label	None
Markings	
Placards	None
IMDG Code Shipping Description	DANGEROUS GOODS IN LIMITED QUANTITIES OF CLASS 3.3, III, FP 54° C
Technical Name	CONTAINS: PETROLEUM DISTILLATES
ID Number	UN1268
Hazard Class	3.3
Packing Group	III
Markings	LIMITED QUANTITY ON TRANSPORT CONTAINER/TRAILER
Label	NONE
Placards	NONE
IMDG PG	0147 - 0149 GEN. INTRO.
Air - IATA Shipping Description	Petroleum Distillates, n.o.s., 3, UN1268,III (sizes not exceeding 500 mL may be re-classed as Consumer Commodity, 9, ID8000 if they meet the packaging specifications in 910 and weight restrictions)
Technical Name	None
ID Number	UN1268
Hazard Class	3
Packing Group	III
Markings	Petroleum Distillates, n.o.s., UN1268
Label	Flammable Liquid

15	REGULATORY INFORMATION
U.S. TSCA Inventory/other TSCA Regulations.	All of the components of this product are listed on the TSCA inventory. This product is subject to export notification.
California Proposition 65	This product does not contain chemicals regulated by the State of California under proposition 65.
SARA Ext. Haz. Subst.	None.

15	REGULATORY INFORMATION (continued)
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SARA Section 313

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372 (SARA 313 - Toxic Chemical Release Reporting)

<u>Chemical Name</u>	<u>CAS#</u>	<u>Weight %</u>
Naphthalene	91-20-3	0-2

CERCLA Hazardous Substances (Section 103)/RQ

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 Naphthalene (2% maximum) of 100 lbs, is 5,000 lbs. Oil spills are reportable to the National Response Center under the Clean Water Act and many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

Canada

All of the components of this product are listed on the Canadian Domestic Substances List (DSL).

EEC 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.

Japan MITI

All of the ingredients of this product are listed on the Japanese Existing and New Chemical Substances (MITI) List.

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OTHER INFORMATION

NFPA Code

Health: 2 Fire: 2 Reactivity: 0

HMIS Code

Health: 2 Fire: 2 Reactivity: 0

Precautionary Labels

Observe all requirements of plant, company or government regulations. "Empty" containers retain product residue and can be hazardous. Do not re-use empty containers without proper cleaning. Keep out of the reach of children. Do not take internally.

Revision Indicators

Supersedes: February 22, 1999 Revised Sections: Section 1, 2, 16 (Formula/Company Name)

General

This MSDS is directed to professional users and bulk handlers of the product or its ingredients. Consumer products are labeled in accordance with Federal Hazardous Substances Act regulations and in some instances might differ from the information provided herein.