

STP® Heavy Duty Brake Fluid, DOT 3

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CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

STP® Heavy Duty Brake Fluid, DOT 3

Manufactured for:
The Armor All / STP Products Company

1221 Broadway

Oakland, CA 94612

Telephone: (510)271-7000

Product Type

Auto Brake Fluid

Stock

ST0925, ST0925CAN, ST0925SP, ST0925PR, ST0926, ST0926CAN, Z-302

Formula

RM3715, RM3725, RM3837, RM3941, RM3950

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

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COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Materials	Material	%	CAS #	Exposure Limit	Source
	Triethylene Glycol	0-70	143-22-6	None Established	(3)
	Monobutyl Ether				
	Triethylene Glycol	0-45	112-50-5	None Established	(3)
	Monoethyl Ether				
	Triethylene Glycol	0-35	112-35-6	None Established	(3)
	Monomethyl Ether				
	Glycol Heavies	0-35	25322-68-3	None Established	(3)
	Polyalkylene Glycol	0-10	9038-95-3	None Established	(3)
	Diethylene Glycol	0-10	112-34-5	None Established	(3)
	Monobutyl Ether				
	Diethylene Glycol	0-5	111-77-3	None Established	(3)
	Monomethyl Ether				
	Diethylene Glycol	0-2	111-90-0	None Established	(3)
	Monoethyl Ether				

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.

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COMPOSITION / INFORMATION ON INGREDIENTS (continued)

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

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HAZARDS IDENTIFICATION**Principal Hazards****Warning**

- Clear amber liquid with a mild odor.
- Accidental ingestion of this material may cause gastrointestinal disturbances including irritation, nausea, vomiting and diarrhea.
- Aspiration from ingestion may cause central nervous system depression and kidney and liver damage.
- Breathing vapors or mists may cause mucous membrane irritation.
- May cause eye irritation or possible corneal injury.
- Prolonged skin contact may cause irritation.

See Section 11 for complete health hazard information

KEEP OUT OF REACH OF CHILDREN

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FIRST AID**Swallowing**

If swallowed, get immediate medical advice by calling a Poison Control Center or emergency room. If advice is not available, then give 1 or 2 glasses of water or milk and induce vomiting. Take victim and product container to the nearest emergency treatment center or hospital. Do not attempt to give anything by mouth to an unconscious person.

Skin

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

Inhalation

Remove to fresh air if effects occur and 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 develops, seek medical attention.

Notes To Physician

There is no specific antidote. Treatment should be directed at the control of symptoms and clinical conditions.

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5 FIRE FIGHTING MEASURES

Flash Point (Method)	250-275 °F (121-135 °C) PMCC
Upper Flammable Limit	Not determined
Lower Flammable Limit	Not determined
Extinguishing Media	Use water fog, foam, alcohol foam, carbon dioxide or dry chemical.
Special Firefighting Procedures	Use self contained breathing apparatus and full protective clothing. Use water to cool fire-exposed containers. A direct stream of water or foam may cause frothing.
Unusual Fire and Explosion Hazards	None
Combustion Decomposition	Burning can produce carbon dioxide, carbon monoxide and oxides of nitrogen.
Auto-ignition Temperature	Not determined
Explosion Data	None determined.

6 ACCIDENTAL RELEASE MEASURES

Spill	Wear appropriate personal protective equipment. Collect material with suitable absorbent material. Place into an appropriate container for disposal. Keep out of sewers and waterways.
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7 HANDLING AND STORAGE

Handling Procedures	<ul style="list-style-type: none">• Avoid contact with eyes.• Avoid prolonged skin contact.• Wash exposed skin with soap and water after use.• Avoid breathing vapors and mists.• Use only with adequate ventilation.• Keep away from excessive heat or open flames• Do not add nitrites or other nitrosating agents. A nitosamine, which may cause cancer, may be formed.
Storage Procedures	<ul style="list-style-type: none">• Store in a cool, well ventilated area. Keep container tightly closed when not in use.

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8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation Procedures	General ventilation should be adequate for normal use. For operations where the product is heated or misted and exposures may be excessive, mechanical ventilation such as local exhaust may be needed to minimize exposure.
Gloves Protection	Chemical resistant gloves such as PVC coated gloves are recommended to prevent prolonged/repeated skin contact.
Eye Protection	Splash proof goggles are recommended to prevent eye contact.
Respiratory Protection	None needed under normal use conditions. For operations where the exposures may be excessive, a NIOSH/MSHA approved organic vapor respirator with a dust/mist pre-filter 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 or dry-cleaned before re-use.

9 PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure	Not determined
pH	Not determined
Specific Gravity	1.02-1.05
Water Solubility	100%
Vapor Density	Not determined
Evaporation Rate	Not determined
Odor	Characteristic odor
Appearance	Clear amber to yellow liquid
Viscosity	Not determined
Boiling Point	Greater than 430 °F
Freezing Point	Less than -40 °F

10 STABILITY AND REACTIVITY

Stability	Stable
Incompatibility	Avoid strong oxidizing agents and peroxides.

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10 STABILITY AND REACTIVITY (continued)

Conditions to Avoid	Contact with nitrites or other nitrosating agents may produce nitrosamine, a known animal carcinogen.
Polymerization	Will not occur
Hazardous Decomposition	Burning can produce carbon monoxide, carbon dioxide, and oxides of nitrogen.

11 TOXICOLOGICAL INFORMATION

Oral Toxicity	Accidental ingestion of a small amount may cause gastrointestinal discomfort with nausea, vomiting and diarrhea. A large ingestion may produce central nervous system depression and kidney and liver damage.
Eye Irritation	May cause moderate to severe eye irritation and possible corneal damage.
Skin Irritation	Prolonged or repeated exposure may cause skin irritation.
Dermal Toxicity	A single prolonged exposure is not likely to result in material being absorbed in harmful amounts. Prolonged or repeated skin exposure to a very large amount of some of the ingredients of this formulation may cause drowsiness.
Inhalation Toxicity	High concentrations of vapors may cause respiratory irritation experienced as nasal discomfort and discharge.
Acute Toxicity Values	Product: No information available.
Sensitization	No evidence of sensitization from available data.
Chronic Toxicity	Prolonged or repeated skin contact with this product may possibly lead to irritation and dermatitis. Prolonged or repeated inhalation or ingestion may lead to central nervous system, gastrointestinal disturbances and possible adverse reproductive effects.
Medical Conditions Aggravated by Exposure	A knowledge of the available toxicology information and of the physical and clinical properties of this material suggests that overexposure is unlikely to aggravate existing medical conditions.
Carcinogenicity	None of the components of this product is listed as a carcinogen or suspected carcinogen by IARC, NTP or OSHA.
Mutagenicity	No evidence of mutagenicity from available data.
Reproductive Toxicity and Teratogenicity	Minor components of this products, when tested separately, have resulted in fetal toxicity in animal studies. One component caused birth defects in animals following ingestion of large doses.

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12 ECOLOGICAL INFORMATION

Aquatic/Terrestrial Toxicity
Environmental Fate

No data is available at this time.

13 DISPOSAL CONSIDERATIONS

Waste Disposal

Incinerate, recycled, treat or landfilled in accordance with federal, state and local regulations.

14 TRANSPORT INFORMATION

U.S. DOT Non-Bulk Shipping Description

None - Not Regulated

ID Number None
Hazard Class None
Packing Group None
Label None
Markings None
Placards None

IMDG Code Shipping Description

NONE - NOT REGULATED

ID Number NONE
Hazard Class NONE
Packing Group NONE
Label NONE
Placards NONE
IMDG PG NONE

Air - IATA Shipping Description

None - Not regulated

Technical Name None
ID Number None
Hazard Class None
Packing Group None
Markings None
Label None

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.
SARA Ext. Haz. Subst. None.

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REGULATORY INFORMATION (continued)

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>
Glycol Ethers	Not available	85-100

CERCLA Hazardous Substances (Section 103)/RQ

This product is not subject to CERCLA reporting requirements, however, many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

California Proposition 65

This product does not contain chemicals regulated under California Proposition 65.

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.

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OTHER INFORMATION

NFPA Code

Health: 2 Fire: 1 Reactivity: 1

HMIS Code

Health: 2* Fire: 1 Reactivity: 1

Precautionary Labels

Observe all requirements of plant, company or government regulations. "Empty" containers retain product residue and can be hazardous. Keep out of the reach of children. Do not take internally.

Revision Indicators

Supersedes: July 23, 1999 Revised Sections: Sections 2 (Composition)

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.