



Material Safety Data Sheet

Section 1: Product & Company Identification

Product Name: Power Steering Fluid

Product Number (s): 05340

Manufactured By:

CRC Industries, Inc.
885 Louis Drive
Warminster, PA 18974
www.crcindustries.com

General Information	(215) 674-4300
Technical Assistance	(800) 521-3168
Customer Service	(800) 272-8963
24-Hr Emergency (CHEMTREC)	(800) 424-9300

Section 2: Hazards Identification

Emergency Overview

Appearance & Odor: Amber liquid, faint petroleum odor

As defined by OSHA's Hazard Communication Standard, this product is hazardous.

Potential Health Effects:

- EYE:** Direct contact irritates slightly with redness and swelling.
- SKIN:** Concentrate may cause irritation. Repeated or prolonged contact can result in drying of the skin.
- INHALATION:** Inhalation of product vapor or mist may cause irritation of mucous membranes in nasal passages and throat.
- INGESTION:** May cause stomach pain or vomiting. Main hazard, if ingested, is aspiration into the lungs and subsequent pneumonitis.
- CHRONIC EFFECTS:** Unknown
- TARGET ORGANS:** Unknown

Medical Conditions Aggravated by Exposure:

Unknown

See Section 11 for toxicology and carcinogenicity information on product ingredients.

Section 3: Composition/Information on Ingredients

COMPONENT	CAS NUMBER	% by Wt.
Hydrotreated heavy paraffinic distillates	64742-54-7	95 – 99
Copolymer ester	proprietary	1 – 5
Borate ester	proprietary	0.2 – 1
Alkyl carboxylic acid	proprietary	0.2 – 1
Tricresyl phosphate	78-32-0	0.2 - 1

Section 4: First Aid Measures

Eye Contact: Immediately flush with plenty of water for 15 minutes. Call a physician if irritation persists.

Skin Contact: Remove contaminated clothing and wash affected area with soap and water. Call a physician if irritation persists. Wash contaminated clothing prior to re-use.

Inhalation: Remove person to fresh air. Keep person calm. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Call a physician.

Ingestion: Do NOT induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.

Note to Physicians: Treat symptomatically.

Section 5: Fire-Fighting Measures

Flammable Properties: As defined by OSHA, this product is nonflammable.

Flash Point:	375 F (COC)	Upper Explosive Limit:	ND
Autoignition Temperature:	ND	Lower Explosive Limit:	ND

Suitable Extinguishing Media: Foam, dry chemicals, sand, dolomite, carbon dioxide

Products of Combustion: Acrid smoke/fumes. Oxides of carbon.

Protection of Fire-Fighters: Firefighters should wear self-contained, NIOSH-approved breathing apparatus for protection against suffocation and possible toxic decomposition products. Proper eye and skin protection should be provided. Use water spray to keep fire-exposed containers cool and to knock down vapors which may result from product decomposition. Water may be used to flush spills away from exposures.

Section 6: Accidental Release Measures

Personal Precautions: Use personal protection recommended in Section 8. Minimize skin contact.

Environmental Precautions: Take precautions to prevent contamination of ground and surface waters. Do not flush into sewers or storm drains. Advise authorities if product has entered waterways.

Methods for Containment & Clean-up: Dike area to contain spill. Ventilate the area with fresh air. If in confined space or limited air circulation area, clean-up workers should wear appropriate respiratory protection. Recover or absorb spilled material using an absorbent designed for chemical spills. Place used absorbents into proper waste containers.

Section 7: Handling and Storage

Handling Procedures: Do not reuse container. Keep container closed when not in use. Ventilate well and avoid breathing vapors. Do not store or mix with strong oxidizers. Product contains amines; do not mix with nitrites. Avoid strong heating. Eye wash and emergency shower must be available at the work place.

Storage Procedures: Store in a cool dry area out of direct sunlight. Keep away from sources of ignition. Store away from strong acids and oxidizers.

Aerosol Storage Level: NA

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines:

COMPONENT	OSHA		ACGIH		OTHER		UNIT
	TWA	STEL	TWA	STEL	TWA	SOURCE	
Hydrotreated heavy naphthenic distillates	5*	NE	5*	10*	NE		mg/m ³
Copolymer ester	NE	NE	NE	NE	NE		
Borate ester	NE	NE	NE	NE	NE		
Alkyl carboxylic acid	NE	NE	NE	NE	NE		
Tricresyl phosphate	NE	NE	NE	NE	NE		
N.E. – Not Established (c) – ceiling (s) – skin (v) – vacated * – oil mist							

Engineering Controls: Area should have ventilation to provide fresh air. Use local exhaust to prevent accumulation of vapors. Use mechanical means if necessary to maintain vapor levels below the exposure guidelines. If working in a confined space, follow applicable OSHA regulations

Respiratory Protection: None required for normal work where adequate ventilation is provided. Use a NIOSH-approved cartridge respirator with organic vapor cartridges if vapors exceed exposure limits. Use a self-contained breathing apparatus in confined spaces and for emergencies.

Eye/face Protection: For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

Skin Protection: Use protective gloves such as neoprene, nitrile or PVC. Also, use full protective clothing if there is prolonged or repeated contact of liquid with skin.

Section 9: Physical and Chemical Properties

Physical State: liquid

Color: Amber

Odor: Mild petroleum
 Specific Gravity: 0.87
 Initial Boiling Point: > 600 F
 Freezing Point: ND
 Vapor Pressure: < 0.1 mmHg @ 98 F
 Vapor Density: > 1 (air = 1)
 Evaporation Rate: slow
 Solubility: insoluble in water
 pH: NA
 Volatile Organic Compounds: wt %: 2.63 g/L: 24.2 lbs./gal: 7.66

Section 10: Stability and Reactivity

Stability: Stable
 Conditions to Avoid: None known
 Incompatible Materials: Strong acids and oxidizers
 Hazardous Decomposition Products: Oxides of carbon.
 Possibility of Hazardous Reactions: No

Section 11: Toxicological Information

Long-term toxicological studies have not been conducted for this product. The following information is available for components of this product.

ACUTE EFFECTS

<u>Component</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
Hydrotreated heavy paraffinic distillates	LD50	> 5000 mg/kg	Oral	Rat
Hydrotreated heavy paraffinic distillates	LC50	2.4 mg/L/4H	Inhalation	Rat
Hydrotreated heavy paraffinic distillates	LD50	> 2000 mg/kg	Dermal	Rabbit

CHRONIC EFFECTS**Carcinogenicity:**

	<u>Component</u>	<u>Result</u>
OSHA:	None listed	
IARC:	None listed	
NTP:	None listed	

Mutagenicity: No information available

Other: The petroleum base oil contained in this product has been highly refined to remove aromatics and improve performance characteristics. The base oil is not listed as a carcinogen by NTP, IARC, or OSHA. (IP 346 < 0.1%)

Reauthorization Act of 1986 and 40 CFR Part 372:
None

Clean Air Act:

Section 112 Hazardous Air Pollutants (HAPs): None

State Regulations

California Safe Drinking Water and Toxic Enforcement Act (Prop 65):

This product may contain the following chemicals known to the state of California to cause cancer, birth defects or other reproductive harm:

Toluene (108-88-3) < 0.1%
Benzene (71-43-2) < 1 ppm

State Right to Know:

New Jersey: 800967-5483P, 800967-5505P, 800967-5533P
Pennsylvania: 108-88-3
Massachusetts: None
Rhode Island : None

Additional Regulatory Information: None

Section 16: Other Information

NFPA: Health: 1 Flammability: 1 Reactivity: 0
HMIS: Health: 1 Flammability: 1 Reactivity: 0 PPE: B

Prepared By: Michelle Rudnick
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Changes since last revision: Section 16: CRC # updated

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC Industries' knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label.

CAS: Chemical Abstract Service NA: Not Applicable
ppm: Parts per Million ND: Not Determined
TCC: Tag Closed Cup NE: Not Established
PMCC: Pensky-Martens Closed Cup g/L: grams per Liter
PPE: Personal Protection Equipment lbs./gal: pounds per gallon
TWA: Time Weighted Average STEL: Short Term Exposure Limit
OSHA: Occupational Safety and Health Administration COC: Cleveland Open Cup
ACGIH American Association of Governmental Industrial Hygienists
NIOSH National Institute of Occupational Safety & Health