

# Material Safety Data Sheet

Power Steering Fluid

MSDS No. 039

Date of Preparation: 10-29-99

Revision: 12-02-05

## Section 1 - Chemical Product and Company Identification

**Product/Chemical Name:** Power Steering Fluid

**Part Number(s):** 2812

**CAS Number:** Not applicable to mixtures

**General Use:** Automotive product

**Manufacturer:** Berryman Products, Inc., 3800 E. Randol Mill Rd., Arlington, TX 76011-5434

Phone: 1-800-433-1704, Emergency phone number: 1-800-535-5053.

### ☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

## Section 2 - Composition / Information on Ingredients

Ingredient Name	CAS Number	% wt or % vol
Oil Mist (Mineral)	Mixture	90-100

**Trace Impurities:**

Ingredient	OSHA PEL		ACGIH TLV		NIOSH REL		NIOSH IDLH
	TWA	STEL	TWA	STEL	TWA	STEL	
Oil Mist (Mineral)	5 mg/m <sup>3</sup>	none estab.	5 mg/m <sup>3</sup>	none estab.	none estab.	none estab.	none estab.

## Section 3 - Physical and Chemical Properties

**Physical State:** Liquid

**Appearance and Odor:** Yellow to Amber, Mild

**Vapor Pressure:** 1 mm Hg at 68 °F

**Vapor Density (Air=1):** Not determined

**Density:** 7.06 lbs/gal

**Specific Gravity (H<sub>2</sub>O=1, at 4 °C):** 0.846

**Boiling Point:** Not determined

**Refractive Index:** 1.4639

**% Volatile:** Not determined

**Evaporation Rate:** Not determined

## Section 4 - Fire-Fighting Measures

**Flash Point:** 390-420 °F

**Flash Point Method:** TAG Open Cup

**LEL:** Not determined

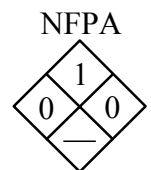
**Flammability Classification:** Class IIIB

**Extinguishing Media:** Carbon dioxide, foam, dry chemicals, and water spray.

**Unusual Fire or Explosion Hazards:** Combustible liquid.

**Fire-Fighting Instructions:** Do not release runoff from fire control methods to sewers or waterways.

**Fire-Fighting Equipment:** Wear self-contained breathing apparatus pressure demand, MSNA/OSHA (approved or equivalent) and full protective gear. Use water spray to keep fire-exposed containers cool.



## Section 5 - Stability and Reactivity

**Stability:** Power Steering Fluid is stable at room temperature in closed containers under normal storage and handling conditions.

**Polymerization:** Hazardous polymerization cannot occur.

**Chemical Incompatibilities & Conditions to Avoid:** Isolate from oxidizers, heat, sparks, electric equipment and open flame.

**Hazardous Decomposition Products:** Thermal oxidative decomposition of Power Steering Fluid can produce carbon monoxide, carbon dioxide, nitrogen, hydrogen sulfide and phosphorous.

## Section 6 - Health Hazard Information

### Potential Health Effects

**Primary Entry Routes:** Skin, dermal, inhalation and ingestion.

**Target Organs:** Eyes, skin, respiratory system.

**Acute Effects:** May cause irritation to the eyes, skin, and respiratory system. Avoid breathing oil mists.

**Carcinogenicity:** IARC, NTP, and OSHA do not list Power Steering Fluid as a carcinogen.

**Chronic Effects:** May irritate mucous membranes and cause dermatitis.

### Emergency and First Aid Procedures

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. Get medical attention immediately.

**Eye Contact:** Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

**Skin Contact:** Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

**Ingestion:** Get medical attention. Do not induce vomiting.

*After first aid, get appropriate in-plant, paramedic, or community medical support.*

### Section 7 - Spill, Leak, and Disposal Procedures

**Spill /Leak Procedures:** Eliminate all sources of ignition. Stop spill at source. Wear appropriate personal protective equipment (Sec. 8). Contain the spill to facilitate cleanup with absorbent. Use non-sparking tools and equipment. Transfer to disposal containers.

**Containment:** For large spills, dike far ahead of liquid spill for later disposal. Do not release into sewers or waterways.

**Disposal:** Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state and local regulations.

**Regulatory Requirements:** Follow applicable OSHA regulations (29 CFR 1910.120).

### Section 8 - Exposure Controls / Personal Protection

**Ventilation:** Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

**Respiratory Protection:** Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or nonroutine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA.

*Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.* If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit-testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

**Protective Clothing/Equipment:** Wear chemically protective gloves, boots, aprons, and gauntlets to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

**Safety Stations:** Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

**Contaminated Equipment:** Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

**Comments:** Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

### Section 9 - Special Precautions and Comments

**Handling Precautions:** Wash thoroughly after handling. Avoid contact with eyes.

**Storage Requirements:** Keep container closed when not in use.

**California Proposition 65:** This product contains the following chemicals known to the state of California to cause cancer and/or reproductive toxicity: None.

#### DOT Transportation Data (49 CFR 172.101):

**Part Number(s):** 2812

**Shipping Name:** Not regulated

**Hazard Class:** N/A

**ID No.:** N/A

**Packing Group:** N/A

#### SARA Title III Section 313 Supplier Notification:

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the emergency Planning & Community Right-To-Know-Act of 1986 & of 40CFR 372: None.

**Prepared By:** Alicia L. Reed

**Disclaimer:** All information appearing herein is based upon data obtained from manufacturers and/or recognized technical sources. While the

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