



1601 McCloskey Boulevard
Hookers Point - Tampa, Florida 33605-6710 U.S.A.
E-MAIL: info@amalie.com
www.amalie.com
Telephone: (813) 248-1988 Telecopier: (813) 248-1488

Compounding
Blending
Blow Molding
Packaging

MATERIAL SAFETY DATA SHEETS

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

GENERIC NAME: Power Steering Fluid

ISSUE DATE: September 2000

MSDS #: 893200381

TRADE NAMES:

1. Parts Plus® Power Steering Fluid

CAS NUMBER:

Mixture

SYNONYMS / GENERAL NAMES:

Petroleum Oil; Lube Oil; Lubricant; Base Stock

24 HOUR EMERGENCY TELEPHONE:

(CHEMTREC) 1-800-424-9300

TECHNICAL INFORMATION:

813-248-1988

2. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENTS	CAS NO.	%	HAZARD DATA
1) Petroleum Lubricating oils	64742-58-1	> 95	Oral LD50 (rat): >15000 mg/kg
2) Petroleum Additives	MIXTURE	< 5	Skin LD50 (rabbit): > 2000 mg/kg

3. HAZARDOUS IDENTIFICATION

IRRITANCY:	Breathing high concentrations of vapor or mist irritate the respiratory tract. Direct contact with material may cause skin irritation.
REPRODUCTIVE EFFECTS:	High concentrations of vapor or mist may irritate the respiratory tract (nose, throat, and lungs)

4. FIRST AID MEASURES

EYES:	Flush with large volumes of water. See physician if any complications arise.
DERMAL:	Wash with soap and water. Do not wear heavily contaminated clothing before laundering.
INGESTION:	Do NOT induce vomiting. Immediately seek medical attention.
INHALATION:	Remove to fresh air. If not breathing, give artificial respiration. Seek medical aid.

5. FIRE FIGHTING MEASURES

FLASH POINT, °C (°F):

150°C (302°F)

EXTINGUISHING MEDIA:

Carbon Dioxide, dry chemical, regular foam, or water spray. Spattering and foaming may occur from spraying water or foam on high-flash -point liquids.

SPECIAL FIRE FIGHTING PROCEDURES:

Keep storage containers cool with water spray. Positive-pressure, self-contained breathing apparatus (SCBA) and structural firefighters'

AUTOIGNITION TEMPERATURE:

399°C (750 °F) (approximately)

EXPLOSION DATA:

Decomposition and combustion products may be toxic. "Empty" containers may retain residue and can be dangerous.

NFPA RATING:

HEALTH: 0 **FLAMMABILITY:** 1 **REACTIVITY:** 0

6. ACCIDENTAL RELEASE MEASURES

SPILL PROCEDURES:

Remove all ignition sources. Stop leak if you can do it without risk. Ventilate area and avoid breathing vapor or mist. Contain away from surface waters and sewers. Contain as a liquid for possible recovery or sorb with compatible sorbent material and shovel into collapsible container for disposal.

7. HANDLING AND STORAGE

HANDLING PROCEDURES: Keep away from intense heat, sparks, or flame. Empty containers may contain product residue which could include flammable or explosive vapors.

STORAGE PROCEDURES: Do not apply heat or flame to container. Keep separate from strong oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:	Provide general ventilation needed to maintain concentration of vapor or mist below applicable exposure limits.
SKIN PROTECTION:	Where skin contact is likely, wear Neoprene, Nitrile, or equivalent gloves; use of natural rubber or equivalent gloves is not recommended.
EYE PROTECTION:	Safety goggles, or chemical splash goggles if splashing is anticipated.
RESPIRATORY PROTECTION:	Normally none required. If high vapor or mist concentrations expected - use respirator approved for organic vapors and mists.
CLOTHING RECOMMENDATION:	Wear appropriate chemical-resistant apron or other protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Amber
ODOR:	Liquid petroleum odor
pH:	NA
VAPOR PRESSURE, mm Hg:	Less than 0.1 mm Hg at 68°F
VAPOR DENSITY:	greater than 10 (air = 1)
BOILING POINT, 760 mm Hg, °C:	424°F (218°C)
SOLUBILITY IN WATER:	Insoluble
SPECIFIC GRAVITY:	0.88 (water = 1)
EVAPORATION RATE:	0.001 (ethyl ether = 1)
MOLECULAR WEIGHT:	NA

10. STABILITY AND REACTIVITY

STABILITY:	Stable
INCOMPATIBILITY:	Strong oxidizing agents.
POLYMERIZATION:	None

11. TOXICOLOGICAL INFORMATION

EYE IRRITATION:	May be mildly irritating.
DERMAL IRRITATION:	Transient, slight irritant.
INJECTION:	Subcutaneous or intramuscular injection may cause irritation, erythema, edema.
CHRONIC EXPOSURE SYMPTOMS	Prolonged or repeated skin contact may cause drying, cracking, or dermatitis.

12. HEALTH INFORMATION

No	HIGHLY TOXIC	No	SENSITIZER
No	TOXIC	No	REPRODUCTIVE EFFECTS
No	CORROSIVE	No	MUTAGEN
No	IRRITANT	No	TARGET ORGAN

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: It is the responsibility of the user to determine if the material is a hazardous waste at the time of disposal. Check before disposing to be sure you are in compliance with all applicable laws and regulations.

14. TRANSPORT INFORMATION**DOT (DEPARTMENT OF TRANSPORTATION)**

PROPER SHIPPING NAME:	Petroleum Lubricating Oil
HAZARD CLASS:	Non-Hazardous

15. REGULATORY INFORMATION

SARA SECTION 313 - TOXIC CHEMICALS:

This product does not contain toxic chemicals under SARA Section 313 and 40 CFR Part 372.

SARA SECTION 311 - HAZARD CATEGORIES:

This product may meet one or more of the criteria for the hazard categories defined in 40 CFR Part 370 as established by Sections 311 and 312 of SARA as indicated below:

Yes	IMMEDIATE (ACUTE) HEALTH HAZARD	No	SUDDEN RELEASE OF PRESSURE HAZARD
Yes	DELAYED (CHRONIC) HEALTH HAZARD	No	REACTIVE HAZARD
No	FIRE HAZARD		

SARA SECTION 302 - EXTREMELY HAZARDOUS WASTE:

This product is not known to contain any components in concentrations greater than one percent that are listed as Extremely Hazardous Substances in 40 CFR Part 355 pursuant to the requirements of Section 302(a) of SARA.

CLEAN WATER ACT (CWA):

Under the CWA, discharges of crude oil and petroleum products to surface water without proper Federal and State permits must be reported immediately to the National Response Center at (800) 424-8802.

CERCLA HAZARDOUS SUBSTANCES:

As defined by CERCLA, the term "hazardous substance" does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically listed or designated as a hazardous substance.

U.S. TSCA INVENTORY

All components of this material are on the U.S. TSCA Inventory or are not required to be listed on the U.S. TSCA Inventory

16. OTHER INFORMATION

THE INFORMATION IN THIS MATERIAL SAFETY DATA SHEET SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT, OR OTHERWISE BE EXPOSED TO THIS PRODUCT. THIS INFORMATION HAS BEEN PREPARED FOR THE GUIDANCE OF PLANT ENGINEERING, OPERATIONS AND MANAGEMENT AND FOR PERSONS WORKING WITH OR HANDLING THIS PRODUCT. AMALIE OIL CO. BELIEVES THIS INFORMATION TO BE RELIABLE AND UP TO DATE AS OF THE DATE OF PUBLICATION, BUT MAKES NO WARRANTY THAT IT IS.

NFPA HAZARD RATING	least - 0	slight - 1	moderate - 2	high - 3	extreme - 4
HMIS HEALTH RATING	least - 0	slight - 1	moderate - 2	high - 3	extreme - 4

NA - NOT APPLICABLE

ND - NO DATA

NE - NOT ESTABLISHED