



Better than it has to be®

AMALIE OIL COMPANY

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Compounding
Blending
Blow Molding
Packaging

MATERIAL SAFETY DATA SHEETS

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

GENERIC NAME: Automatic Transmission Fluid

ISSUE DATE: APRIL 2010

THIS GENERIC MSDS REPRESENTS THE FOLLOWING AMALIE® PRODUCTS:

1. AMALIE® UNIVERSAL SYNTHETIC AUTOMATIC TRANSMISSION FLUID

<u>COMPONENTS</u>	<u>CAS#</u>	<u>%</u>	<u>HAZARD DATA</u>
1) DISTILLATES, PETRO, HYDROTREATED HEAVY	64742-54-7	<87	ORAL (LD50): >1500 mg/kg
2) AUTOMATIC TRANSMISSION FLUID ADDITIVES	MIXTURE	<14	DERMAL (LD50): >2000 mg/kg
3) VISCOSITY INDEX IMPROVER	CONFEDENTIAL	<14	
4) POLYALKYLMETHACRYLATE	MIXTURE	<12	

SYNONYMS / GENERAL NAMES: Automatic Transmission Fluid

24 HOUR EMERGENCY TELEPHONE: (CHEMTREC) 800-424-9300

TECHNICAL INFORMATION: 813-248-1988

2. COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS: None

CAS NUMBER: NA

3. HAZARDOUS IDENTIFICATION

ROUTES OF ENTRY: Inhalation of incidental mists or vapors.

TARGET ORGANS: NA

IRRITANCY: Eye contact might result in slight irritation. Skin contact might result in slight irritation, possible mild allergen. Subcutaneous or intramuscular injection may cause irritation, erythema, or edema.

REPRODUCTIVE EFFECTS: NA

CANCER INFORMATION: NA

SEE SECTION 11 FOR COMPLETE HAZARD INFORMATION

4. FIRST AID MEASURES

EYES: Flush with large volumes of water.

DERMAL: Wash with soap and water, until all traces of material are removed.

INGESTION: Do not induce vomiting. Seek medical aid.

INHALATION: Remove from exposure to incidental fumes and provide respiratory support if necessary. Can lead to aspiration pneumonia. Repeated aspiration can lead to inflammation. Normal use not likely to lead to abnormalities

INJECTION: Seek medical aid.

5. FIRE FIGHTING MEASURES

FLASH POINT, °C (°F): 190°C (375°F)

FLAMMABLE LIMITS (% BY VOLUME IN AIR):

LOWER: NA

UPPER: NA

EXTINGUISHING MEDIA: CO₂, dry chemical, foam

SPECIAL FIRE FIGHTING PROCEDURES: None

AUTOIGNITION TEMPERATURE: NA

EXPLOSION DATA: NA

NFPA RATING¹:

HEALTH: 1

FLAMMABILITY: 1

REACTIVITY: 0

6. ACCIDENTAL RELEASE MEASURES

SPILL PROCEDURES: Small Spills - Take up with non-combustible absorbent such as Fuller's earth or sand. Place into containers for later disposal. Large Spills: Contain spill of product or used oil in earthen dikes for later recovery. Control ignition sources around spill area. Report spills as required to appropriate authorities.

7. HANDLING AND STORAGE

HANDLING PROCEDURES: Inspect empty containers before use. They may contain product residue which could include flammable and explosive vapors.

STORAGE PROCEDURES: Keep container away from heat and flame.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Use in well ventilated area. In confined space, mechanical ventilation may be required to keep levels of certain components below mandated standards, as evaluated by designated personnel.

GLOVES PROTECTION: Oil impervious gloves, rubber or polymer, if frequent or prolonged contact is expected.

EYE PROTECTION: Safety glasses, goggles with splash guards

RESPIRATORY PROTECTION: If high concentrations of mists or fumes are expected, use approved organic respirator.

CLOTHING RECOMMENDATION: Wear body-covering garments to prevent prolonged or repeated direct dermal exposure. Launder work clothes before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Red liquid

ODOR: Mild petroleum odor

pH of Undiluted Product: NA

VAPOR PRESSURE, mm Hg (25 °C): $\sim 2 \times 10^{-3}$

VAPOR DENSITY: >1

MELTING POINT: NA

BOILING POINT, ND

SOLUBILITY IN WATER: Negligible

SPECIFIC GRAVITY (60//60 °F)(H₂O = 1): 0.849

EVAPORATION RATE (n-BUTYL ACETATE = 1): ND

VISCOSITY: 7.1 cst @ 100C 33.7cst @ 40C

PERCENT VOLATILE: ND

10. STABILITY AND REACTIVITY

STABILITY: Stable

INCOMPATIBILITY: Strong Oxidants

POLYMERIZATION: None

HAZARDOUS DECOMPOSITION PRODUCTS: CO₂ (CO under incomplete combustion), nitrogen, oxide sulfates, carbon monoxide, various hydrocarbons, aldehydes

11. TOXICOLOGICAL INFORMATION

-- ACUTE EXPOSURE --

ORAL TOXICITY: ND

EYE IRRITATION: Transient, slight irritation.

INJECTION: Subcutaneous or intramuscular injection may cause irritation, erythema, or edema.

INHALATION TOXICITY: Low risk at ambient temperatures. Mists or fumes may cause dizziness, headache, nausea, respiratory irritation, or chemical pneumonitis.

DERMAL CONTACT: Transient, slight irritant, possible mild allergen.

-- CHRONIC EXPOSURE --

CHRONIC TOXICITY: NA

CARCINOGENICITY: NA

MUTAGENICITY: NA

DERMAL: Prolonged and repeated exposure may cause drying of the skin.

12. HEALTH INFORMATION

HMS CODE^{II}: HEALTH: 1 FIRE: 1 REACTIVITY: 0

PRECAUTIONARY LABELS: CAUTION: Possible minor allergen.

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. RCRA Emergency Hotline Number: 800-424-9346.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME:	Petroleum Lubricating Oil
HAZARD CLASS:	Non-Hazardous
HAZARD IDENTIFICATION NUMBER:	None assigned
DOT PLACARD:	None
COMPATIBILITY CATEGORY:	ND

15. REGULATORY INFORMATION

SARA SECTION 313 - TOXIC CHEMICALS:

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

<u>COMPONENTS</u>	<u>CAS #</u>	<u>%</u>
NA	NA	NA

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
NO	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 US TSCA Inventory.

CALIFORNIA PROPOSITION 65:

NONE

INTERNATIONAL REGULATIONS:

AICS: This material or a component requires notification prior to sale or importation

ECL: The intentional ingredients of this product are listed

ENCS: This material or a component requires notification prior to sale or importation

PICCS: This material or a component requires notification prior to sale or importation

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 LUBRICANTS BELIEVES THIS INFORMATION TO BE RELIABLE AND UP TO DATE AS OF THE DATE OF PUBLICATION, BUT MAKES NO WARRANTY THAT IT IS.

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