



A Division of
South West Lubricants, Inc.

**Material Safety Data Sheet
BIO 2T**

Last updated: November 2008

1. Product and Company Identification

Product Trade Name BIO 2T
CAS Number Not applicable for mixtures
Generic Chemical Name Synthetic Oil
Product Type 2T Engine Oil
Transportation Emergency CHEMTREC 1-800-424-9300 (Outside USA 703-527-3887)
MSDS No. 19901
MSDS Website www.maximausa.com

2. Composition/Information on Ingredients

Common Name	Chemical Name	CAS No.	Range (%)
Modified Fatty Acid Ester		105839-69-8	55-65
Solvent Naphtha Medium Aliphatic		64742-88-7	10-20
Polybutene		9003-27-4	15-25
Multi-functional additive mixture		Confidential	10-15

3. Hazards Identification

EMERGENCY OVERVIEW

Under normal conditions of use, this product is not considered hazardous according to regulatory guidelines.
 Amber Liquid. DOT ERG No.: NA

IMMEDIATE HEALTH EFFECTS

Eye Not expected to cause prolonged or significant eye irritation.
Skin Contact with the skin is not expected to cause prolonged or significant irritation.
Ingestion Not expected to be harmful if swallowed.
Inhalation Not expected to be harmful if inhaled.

4. First Aid Measures

Eye No specific first aid measures are required because this material is not expected to cause eye irritation. As a precaution, remove contact lenses, if worn, and flush eyes with water.
Skin No specific first aid measures are required because this material is not expected to be harmful if it contacts the skin. As a precaution, remove clothing and shoes if contaminated. To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse.
Ingestion No specific first aid measures are required because this material is not expected to be harmful if swallowed. Do not induce vomiting. As a precaution, give the person a glass of water or milk to drink and get medical advice. Never give anything by mouth to an unconscious person.
Inhalation No specific first aid measures are required because this material is not expected to be harmful if inhaled. If exposed to excessive levels of material in the air, move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs.



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5. Fire Fighting Measures

FIRE CLASSIFICATION:

OSHA Classification (29 CFR 1910.1200): Not classified by OSHA as flammable or combustible.

NFPA RATINGS

Health: 1

Flammability: 1

Reactivity: 0

FLAMMABLE PROPERTIES:

Flash Point ND (min. 200°C)

Autoignition NDA

Flammability (Explosive) Limits (% by volume in air) Lower: ND Upper: ND

EXTINGUISHING MEDIA

Use water fog, foam, dry chemical or carbon dioxide (CO₂) to extinguish flames.

PROTECTION OF FIRE FIGHTERS:

Fire Fighting Instructions

This material will burn although it is not easily ignited. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

Combustion Products

Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion.

6. Accidental Release Measures

Protective Measures Spill Management

Eliminate all sources of ignition in vicinity of spilled material. Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

Reporting

Report spills to local authorities and/or the U.S. Coast Guard's National Response Center at (800) 424-8802 as appropriate or required.

7. Handling and Storage

Handling

Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water. Wear recommended protective equipment. Practice good personal hygiene after handling.

Storage

Store in closed containers of proper construction. Store away from sources of ignition and in areas of good ventilation. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.



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8. Exposure Controls/Personal Protection

Exposure Limits	No ACGIH TLV or OSHA PEL assigned. Minimize exposure.
Ventilation	Use in areas of adequate ventilation. Use mechanical exhaust to control vapors or mists.
Gloves	Use nitrile or neoprene gloves.
Eye Protection	Safety glasses, goggles or face shield are recommended.
Respiratory	Use NIOSH/MSHA approved respirator with organic vapor cartridge and dust/mist cartridge is recommended if exposure limit is exceeded. Self-contained breathing apparatus is recommended for confined space entry.
Clothing	Long sleeve shirt and apron when potential for skin contact. Wear neoprene or nitrile rubber boots when necessary to avoid contaminating shoes.

9. Physical and Chemical Properties

Appearance and Odor	Liquid, Dark Red color, Faint odor
pH	NA
Vapor Pressure	<0.01 mmHg @ 100 °F
Vapor Density (Air = 1)	>1
Boiling Point	ND
Solubility	Soluble in hydrocarbons; insoluble in water
Freezing Point	NA
Melting Point	NA
Specific Gravity	0.85 - 0.87 @ 15.6 °C / 15.6 °C
Volatile Organic Compounds (VOC)	<15.0% weight (Approximate)
Viscosity (40 °C)	185 Saybolt Seconds (SUS)

10. Stability and Reactivity Data

Chemical Stability	This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Incompatibility With Other Materials	May react with strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
Hazardous Decomposition Products	None known (None expected)
Hazardous Polymerization	Hazardous polymerization will not occur.



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11. Toxicological Information

- Eye Irritation** Not expected to cause eye irritation
- Skin Irritation** Not expected to be a primary skin irritant. Prolonged or repetitive contact may cause irritation.
- Acute Oral Toxicity** Swallowing material may cause irritation of the gastrointestinal lining, nausea, vomiting, diarrhea and abdominal pain.
- Carcinogenic** This material has not been identified as a carcinogen by NTP, IARC or OSHA.
- Genetic Toxicity** This product gave negative results in the following mutagenicity assays: Microbial/Microsome Reverse Mutation Assay.

ADDITIONAL TOXICOLOGY INFORMATION

This product contains petroleum and/or synthetic ester base oils which may be refined by various processes including severe solvent extraction, severe hydrocracking, severe hydrotreating or chemical reaction. None of the oils requires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as; carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B).

12. Ecological Information

This material is expected to have marginally adverse affects on marine and plant life. Spills may contaminate drinking water. This material is expected to be inherently biodegradable.

13. Disposal Considerations

- Disposal** Oil collection services are available for used oil recycling or disposal. Place contaminated materials in containers and dispose of in a manner consistent with applicable regulations. Consult federal, state and local regulations regarding disposal methods. Do not contaminate oil with solvents or other chemicals.

14. Transport Information

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

- DOT Shipping Name** NOT REGULATED AS A HAZARDOUS MATERIAL FOR TRANSPORTATION UNDER 49 CFR
- DOT Hazard Class** NOT APPLICABLE
- DOT Identification Number** NOT APPLICABLE
- DOT Packing Group** NOT APPLICABLE



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15. Regulatory Information

TSCA All components of this material are listed on the TSCA inventory or are exempt.

SARA 311/312

- | | |
|--------------------------------------|-----|
| 1) Immediate (Acute) Health Effects | NO |
| 2) Delayed (Chronic) Health Effects | YES |
| 3) Fire Hazard | NO |
| 4) Sudden Release of Pressure Hazard | NO |
| 5) Reactivity Hazard | NO |

SARA 313 This product does not contain greater than 1.0% of any chemical substance on the SARA Extremely Hazardous Substances list.

CAL PROP 65 Not listed

RCRA Not listed

CERCLA Listed

16. Other Information

NFPA RATINGS Health: 1 Flammability: 1 Reactivity: 0
HMIS RATINGS Health: 1 Flammability: 1 Reactivity: 0

(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protection Equipment Index recommendation, *- Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.