

MATERIAL SAFETY DATA SHEET

SECTION 1 CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name: Totaline® 3MA Synthetic Ester Compressor Lubricant
 Product Number(s): P903-1625, P903-1601, P903-1655
 Product Use: Synthetic ester compressor lubricant
 Company Name: North American Research Corporation
 P.O. Box 1318
 Lewisville, TX 75067
 Telephone Numbers: (972) 492-1800, (800) 527-7520, Fax (972) 394-6755
 Emergencies: Infotrac (800) 535-5053 (24 hours, everyday)

Date Prepared Sep. 24, 2008
 Replaces May 22, 2006

SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS

CAS Registry No.	OSHA PEL	ACGIH TLV	Other Limits	% (Optional)
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Product assessed in accordance with OSHA 29 CFR 1910.1200 and determined not to be hazardous.

SECTION 3 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Not expected to cause a severe emergency hazard. Use of adequate ventilation will avoid aspiration of oil mists. Wash skin after contact; prolonged contact with any oils can cause irritation in some individuals.

EFFECTS OF OVEREXPOSURE: No significant effects expected.

SECTION 4 FIRST AID MEASURES

INHALATION: Not likely to occur except as mist. Remove patient to fresh air and consult a physician. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.
 SKIN: Remove contaminated clothing and shoes. Thoroughly wash contact area with soap and water. Get medical attention if irritation or rash develops. Wash clothing before reuse.
 EYES: Flush eyes thoroughly with water. If irritation occurs, call a physician.
 INGESTION: Not expected to be a problem. However, if greater than 1 pint (½ Liter) is ingested, seek medical attention.

SECTION 5 FIRE-FIGHTING MEASURES

FLASHPOINT: 482°F (250°C) METHOD: ASTM D-93 LEL: Not established UEL: Not established
 EXTINGUISHING MEDIA: Dry chemical, carbon dioxide, water fog and foam.
 SPECIAL FIRE FIGHTING PROCEDURES: Water fog and foam may cause frothing and spattering. Use water to keep fire-exposed containers cool. Water spray may be used to flush spills away from exposure. Prevent runoff from fire control or dilution from entering streams, sewers or drinking water supply.
 HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon.
 FIRE FIGHTING INSTRUCTIONS: Use flooding quantities of water as fog or spray to keep fire-exposed containers cool. Firefighters should wear self-contained breathing apparatus.
 NFPA: Health: 0, Flammability: 1, Reactivity: 0

SECTION 6 ACCIDENTAL RELEASE MEASURES

Product is supplied in small containers and not likely to be involved in a major spill.
 SMALL SPILLS: Wipe up with rags or absorb with non-combustible material such as sand or clay. Place cleanup materials in suitable container for proper disposal.
 LARGE SPILLS: Dike area to prevent runoff from entering storm sewers or drains. Collect material and dispose of at an appropriate waste disposal facility in accordance with current applicable laws and regulations.

SECTION 7 STORAGE AND HANDLING

STORAGE CONDITIONS:

Store in labeled, sealed containers in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Do not remove or deface label. Prevent water or moist air from entering containers. Do not reuse containers.

HANDLING PROCEDURES:

Wash hands before eating, drinking, or using the restroom. Any clothing or shoes which become contaminated should be removed and thoroughly washed before wearing again.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS: This product does not contain any components which have recognized exposure limits. However, an exposure limit of 5 mg/m³ is suggested for oil mist.
 RESPIRATORY PROTECTION: Normally not required. If used where mist may occur at high levels, use NIOSH/MSHA approved apparatus.
 EYE PROTECTION: Wear safety glasses.
 SKIN PROTECTION: No special equipment required. However, good personal hygiene practices should always be followed.

ENGINEERING CONTROLS (Ventilation): Use adequate ventilation to keep oil mist below 5 mg/m³.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Clear liquid; virtually odorless.

BOILING POINT: Not established

SPECIFIC GRAVITY: 0.985

VAPOR PRESSURE: Not established

POUR POINT: -57°F (-49°C)

SOLUBILITY IN WATER: Negligible

VAPOR DENSITY: Not established

pH: Not applicable

VISCOSITY: 31.0 cSt @ 40°C; 5.8 @ 100°C

EVAPORATION RATE (Butyl Acetate = 1): Not established

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID: Ignition sources (sparks, open flame, heated surfaces).

INCOMPATIBILITY (Materials to Avoid): Strong oxidizers.

HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: Combustion may produce carbon monoxide and other asphyxiants.

SECTION 11 TOXICOLOGICAL INFORMATION

ORAL TOXICITY (RATS): Practically non-toxic (LD₅₀: greater than 2000 mg/kg). Based on testing of similar products and/or the components.

DERMAL TOXICITY (RABBITS): Practically non-toxic (LD₅₀: greater than 2000 mg/kg). Based on testing of similar products and/or the components.

INHALATION TOXICITY (RATS): Not established

EYE IRRITATION (RABBITS): Practically non-irritating. (Draize score: greater than 6 but 15 or less). Based on testing of similar products and/or the components.

SKIN IRRITATION (RABBITS): Practically non-irritating. (Primary Irritation Index: greater than 0.5 but less than 3). Based on testing of similar products and/or the components.

CHRONIC TOXICITY: This product has not been found to be carcinogenic or a potential carcinogen. It is not listed by NTP, IARC, OSHA, or ACGIH. Nevertheless, good industrial hygienic practices are recommended.

SECTION 12 ECOLOGICAL INFORMATION

No specific data are available.

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in accordance with federal, state, and local regulations. Not an RCRA hazardous waste if uncontaminated. If used, RCRA criteria must be determined.

SECTION 14 TRANSPORT INFORMATION

U.S. Department of Transportation:

Not regulated

SECTION 15 REGULATORY INFORMATION

TSCA: All components of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substances Inventory.

CERCLA: No reportable ingredients

SARA TITLE III:

Section 311/312 Hazard Category: Acute: No Chronic: No Fire: No Pressure: No Reactive Hazard: No

Section 313 Reportable Ingredients: None

CALIFORNIA (Proposition 65): No reportable ingredients.

SECTION 16 OTHER INFORMATION

NFPA RATING: Health – 0, Flammability – 1, Reactivity – 0

HMIS® RATING: Health – 0, Flammability – 1, Reactivity – 0

HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint and Coatings Association (NPCA).

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