



MATERIAL SAFETY DATA SHEET

MFA Oil Longlife® Pre-Mixed 50/50 Extended Life Antifreeze & Coolant

Revision Date: 11/2024

Version: 3

Section 1 Product & Company Information

MANUFACTURER: J.D. STREETT & COMPANY, INC.
144 WELDON PARKWAY
MARYLAND HEIGHTS, MO 63043

PHONE NUMBERS: General Information (314) 432-6600
Emergency (Chemtrec) (800) 424-9300

PRODUCT CODE AJD7512
CHEMICAL NAME Ethylene Glycol, Nitrites, Nitrates
CHEMICAL FAMILY Glycol
COMMON NAME An aqueous solution of ethylene glycol, nitrites, nitrates
PRODUCT FAMILY Anti-Freeze, Engine Coolant
CHEMICAL FORMULA Mixture
CAS NUMBER Mixture (Refer to Section 3)
RCRA NUMBER N/A

Section 2 Hazards Identification

Route of Entry: Ingestion; inhalation; Skin;
Target Organs: NA
Inhalation: Respiratory tract irritation may occur with exposure to a large amount of material, and interfere with oxygen transfer in human blood stream
Skin Contact: Will irritate skin. May exacerbate pre-existing skin conditions ie dermatitis
Eye Contact: Will cause irritation, redness, tearing and blurred vision, upon direct contact
Ingestion: In small doses will cause permanent injury or even death. Irritating to mouth, throat. Will cause severe discomfort, including nausea, vomiting and diarrhea in small or even minute doses.

HMIS II-ratings (scale 0-4): Health = 3, Fire = 0, Reactivity = 1

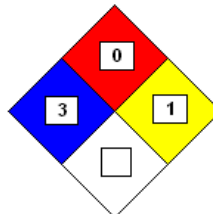
HMIS® Rating H3/F0/PH1

NFPA-ratings (scale 0-4): Health = 3, Fire = 0, Reactivity = 1

HMIS PLACARD

HEALTH	3
FLAMMABILITY	0
REACTIVITY	1
PPE	X

NFPA PLACARD



Signal word: WARNING

HAZARD OVERVIEW:

Strong eye irritant. Skin irritant. May worsen pre-existing skin conditions. Severe ingestion hazard.

Prolonged unprotected exposure to this product will cause skin irritation. Material splashed in eyes may damage tissues.

Carcinogen listing by: National Toxicology Program (NTP)

I.A.R.C (NO)

OSHA (NO)

ACGIH (NO)

This product does NOT require a cancer hazard warning in accordance with the OSHA Hazard Communication Standard.

When burned, the product will produce NoX and other asphyxiants during combustion.

CANADA WHMIS classification: CONTROLLED PRODUCT

D1A- Poison material causing serious effects by ingestion

**NOT INTENDED FOR HOUSEHOLD USE!**

THE INFORMATION IN THE MATERIAL SAFETY DATA SHEET (MSDS) SHALL BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, AND TRANSPORT OR OTHERWISE BE EXPOSED TO THIS PRODUCT. J.D. STEETT & CO., INC. ENCOURAGES AND EXPECTS THE USER, DISTRIBUTOR, HANDLER TO READ THE ENTIRE MSDS, AND CONSULT APPROPRIATE EXPERTISE AS NECESSARY, TO BECOME AWARE AND FULLY UNDERSTAND THE INFORMATION CONTAINED IN THE MSDS AND OF ANY OCCUPATIONAL HAZARDS ASSOCIATED WITH THIS PRODUCT USE IN THE WORKPLACE.

Section 3 Composition / Information on ingredients

COMPONENT MATERIALS CONSIDERED HAZARDOUS PER FEDERAL, STATE OR PROVINCIAL OCCUPATIONAL, HEALTH, AND REGULATORY BODIES

Ingredients:

Chemical Name	Cas #	Percentage
ETHYLENE GLYCOL	107-21-1	>=40-<50%
SODIUM NITRITE	7632-00-0	<1%
SODIUM NITRATE	7631-99-4	<1%
SODIUM METASILICATE	6834-92-0	<1%
SODIUM METABORATE	16800-11-6	<1%

OSHA Regulatory Status:

This MSDS Contains valuable information critical to the safe handling and proper use of this product. This MSDS should be retained and available for employees and other users of this product.

Section 4 First-Aid Measures

Inhalation:	Vapours should not be present at normal working temperature.
Skin Contact:	Wash with soap and water, if irritation persists, seek medical attention
Eye Contact:	Immediately flush eyes with large amounts of water for at least 15 minutes, lifting eyelids occasionally to facilitate irrigation. Seek medical attention if irritation persists
Ingestion:	Dilute with copious amounts of fluid (e.g. water, milk, juice, etc.) INDUCE controlled vomiting under the supervision of a physician SEEK emergency medical attention.

Section 5 Fire Fighting Measures

Flash Point:	DOES NOT FLASH
Flash Point Method:	NA
Burning Rate:	NA
Auto ignition Temperature:	NA
LEL:	NA
UEL:	NA
Flammability Classification:	May burn and exhibit oxidizing characteristics when fully involved, Dry powder, foam, carbon dioxide.

Section 6 Accidental Release Measures

Release Measures:

Extinguish any open flames and remove heat sources.

CONTAIN, ABSORB AND CONTROL THE SPILLAGE WITH THE SAFEST MOST EFFECTIVE MEANS AT YOUR DISPOSAL.

This material will NOT float on water and will be transported by storm water runoff. Soils to the ground should be immobilized and removed immediately. Spills to watercourse such as storm drains, sewers, ditches, streams.

For safety and environmental precautions, please review entire Material Safety Data Sheet for necessary information.

* Information about ingredient percentages of product, according to RQ (Reportable Quantity): Available upon request in the event of major uncontrolled release.

Section 7 Handling & Storage

Handling Precautions:	Handle with care and avoid spillage on the floor (slippage). Consider normal working hygiene. Do not puncture or drop containers. DO NOT WEAR CONTACT LENSES
Storage Requirements:	Store in cool/dry area; Suitable packing materials

EMPTY CONTAINER WARNING!

Do not attempt to refill or clean containers since residue is difficult to remove. "Empty" drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All other containers should be disposed of in an environmentally safe manner in accordance with governmental regulations.

For work on tanks, refer to OSHA regulations, ANSI Z49.1, and other governmental and Industrial references pertaining to cleaning, repairing, welding, or contemplated operations.

Section 8 Exposure Controls and Personal Protection

Engineering Controls:	Use mechanical (general) ventilation for storage areas. All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94) and NFPA 30 standards
Protective Equipment:	HMIS PP, X Consult your supervisor for special instructions HMIS PP, X ANSI Rated safety glasses, gloves such as nitrile. Consult your supervisor for special instructions if aerosol inhalation hazard exists. If there is likelihood of splashing, chemical impervious clothing should be worn. Never wear oil chemical clothing. Affix warning labels on containers in accordance with 29CFR 1910.1200 (Hazard Communication Standard)
Exposure Guidelines /Other:	Component Exposure Limits: ACGIH (TLV- 8 hour TWA) ETYLENE GLYCOL- 100 mg/m3 (ceiling aerosol only) USA OSHA (/PEL): None published ACGIH (TWA/TLV): See above Respiratory Protection: X- consult supervisor Ventilation: X- consult supervisor Protective Gloves: X- consult supervisor Eye Protection: X- consult supervisor Other Protective Equipment: X- consult supervisor

Note: PERSONAL PROTECTIVE EQUIPMENT (ppe) REQUIREMENTS ARE RELATED TO CONDITIONS OF USE, WHICH CANNOT BE SUITABLY PREDICTED BY THE PRODUCT MANUFACTURER. DETERMINATION OF NECESSARY (ppe) IS THE RESPONSIBILITY OF THE EMPLOYER/ USER, BASED ON ASSESSMENT AND KNOWLEDGE OF THE EMPLOYER'S INDUSTRIAL PROCESSES AND WORKPLACE ENVIRONMENT. IN EVERY CIRCUMSTANCE OF CHEMICAL EXPOSURE, THE EMPLOYER SHALL LIMIT WORKER EXPOSURES TO THIS PRODUCT FIRST BY IMPLEMENTING EFFECTIVE ENGINEERING CONTROLS, AND SECOND BY IMPLEMENTING ADMINISTRATIVE CONTROLS. PERSONAL PROTECTIVE EQUIPMENT (ppe) SHALL BE USED DILIGENTLY BY WORKERS WHEN ENGINEERING AND ADMINISTRATIVE CONTROLS DO NOT FULLY PREVENT CHEMICAL EXPOSURE TO THIS PRODUCT.

Section 9 Physical and Chemical Properties

Appearance: Light Yellow	Physical State: Liquid
Boiling Point: Not Determine	Freezing Point 50 Volume% in Water: -34°F (-37°C)
Odor: None	Vapor Density: > 1(Air =1)
pH 50 Volume% in Water: 9.61	Solubility: Complete
Vapor Pressure: N/A	Specific Gravity @ 60°F: 1.0785
Heat Value: N/A	Evaporate. Rate: slower than Butyl acetate
VOC: N/A	Bulk Density: N/A
Octanol: N/A	Molecular Weight: NA
Particle Size: N/A	Softening Point: N/A
Viscosity: N/A	Percent Volatile: N/A
Sat. Vapor Concentrate: N/A	Molecular Formula: N/A

Section 10 Stability and Reactivity

Stability:	Product is stable under normal conditions.
Conditions to avoid:	Extreme heat, freezing temperatures
Materials to avoid (incompatibility):	Low flash solvent. Other flammable materials, ammonia compounds
Hazardous Decomposition products:	Combustion will produce carbon dioxide and, possibly toxic chemicals such as NoX.
Hazardous Polymerization:	Will not occur.

SECTION 11 Toxicological Information**IMMEDIATE (ACUTE) EFFECTS:**

ACUTE STUDIES: High order, possible pulmonary effects as irritant, effects on oxygenation of hemoglobin. Highly toxic in variable doses through ingestion.

ACUTE SKIN: Prolonged skin contact tends to remove skins oils, leading to irritation and dermatitis, however, based on human experience and available toxicological data, this product is not judged to be "corrosive" by OSHA criteria.

EYE EFFECTS: Product contacting eyes will cause irritation

ACUTE ORAL: Product has high order of acute toxicity. Amounts aspirated into the lungs during ingestion may cause pulmonary edema. Ingestion will cause injury or death.

ACUTE INHALATION: Product has a low order of acute toxicity, but large amounts aspirated into the lungs may change normal hemoglobin and effect oxygen transport in bloodstream, a condition known as methaemoglobinaemia.

Carcinogeny - NTP/IARC: There is no available evidence known, to state that this chemical product poses a carcinogenic risk in humans under normal conditions of handling and industrial use.

Specific L/D 50 data about product: NOT AVAILABLE

SECTION 12 Ecological Information**ENVIRONMENTAL HAZARDS**

If applied to leaves, this product may kill grass and small plants by interfering with transpiration and respiration. This product may be toxic to fish and will affect gill structures resulting in suffocation if spilled in shallow, stagnate water. Product may be toxic to amphibians by preventing dermal respiration. This product may cause gastrointestinal distress to birds and mammals through ingestion during pelage grooming.

ENVIRONMENTAL FATE

This product is somewhat biodegradable. Biodegradation is possible within 90 to 120 days in aerobic environments at temperatures above 70 degrees F.

IN GENERAL, PRODUCT DEMONSTRATES HIGH WATER SOLUBILITY WHEN EXPOSED TO THE NATURAL ENVIRONMENT.

Specific L/C 50 data in aquatic environments, about product: NOT AVAILABLE

SECTION 13 Disposal Considerations

Product, as supplied DOES meet the characteristics of a hazardous waste as defined in 40 CFR 261.21-24. If mixed with other products, waste mixture must be characterized. Do NOT dispose of this product in drains or storm sewers. DO NOT dispose of this product in a landfill.

Dispose of in accordance with local regulations at a suitable waste-disposal site approved by local, state/ provincial authorities.

SECTION 14 Transport Information

DOT: CONSUMER COMMODITY ORM-D, class 9, aqueous solution of nitrites, nitrates) (Can be used for ground transport in U.S.A only)

TDG: Not Regulated

IATA: Not Regulated

IMDG: Not Regulated

ADR: Not Regulated

THIS SECTION IS PROVIDED FOR GENERAL INFORMATION ONLY. THE SHIPPING DESCRIPTION ABOVE MAY NOT REPRESENT REQUIREMENTS FOR ALL MODES OF TRANSPORTATION, PACKAGING, SHIPPING METHODS, OR LOCATIONS OUTSIDE OF THE GEOGRAPHIC BOUNDRIES OF THE U.S.A.

Other party shipper: For more complete transportation regulatory information; please refer to the appropriate dangerous goods code of regulations, in order to complete necessary shipping documents.

SECTION 15 Regulatory Information

COMPLIANCE * Information about product ingredient percentages: available upon request

U.S. FEDERAL REGULATORY INFORMATION

SARA 311 Categories: Immediate (Acute Health effects) - Y

SARA 302 Threshold Planning Quantity: Y

Delayed Chronic effects- Y

Sudden Release of pressure- N

SARA 304 Reportable Quantity: Y

Fire Hazard-N

Reactivity Hazard-N

USEPA/ TSCA Inventory: The components of this product are listed on the USEPA/TSCA (Toxic Substances Control Act) inventory of chemicals, 15 U.S.C. 2601 et. seq.

COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT (CERCLA): Chemicals in this product are subject to the reporting requirements of CERCLA

OSHA Hazard Communication Standard: This product has been evaluated and determined to be hazardous as defined in OSHA's Hazard Communication Standard.

STATE and COMMUNITY Right-To-Know regulations (RTK);

LA,CA,NJ,PA,MA,FL,MI,IL,RI,ME,ID,MN,DE

Components Listed in sec 3- Yes

Extremely, Extraordinarily, and Special Hazardous Substance NJ, MA, PA, NY, WA, WV, WI

Components Listed in sec 3- No

SECTION 15 Regulatory Information (continue)

CALIFORNIA PROPOSITION 65: This product does NOT contain any chemical known to the State of California to cause cancer, birth defects, or reproductive harm.

CANADIAN REGULATORY INFORMATION

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the Controlled Products Regulations.

The products contents are listed on the Canadian Domestic Substances List (DSL)

THE INFORMATION PROVIDED HEREIN THIS SECTION MAY NOT INCLUDE THE IMPACT OF ADDITIONAL REGULATORY REQUIREMENTS (e.g., for materials meeting the definition of hazardous waste under RCRA, hazardous substances under CERCLA, and/of marine pollutants (MARPOL) under CWA or similar federal, state, provincial or laws regulations, within or outside the geographic boundaries of the U.S.A.

SECTION 16 Other Information

STATEMENTS DENOTED BELOW THIS TYPE SCRIPT ARE MEANT AS DISCLAIMER *****

ACKNOWLEDGEMENT UPON PURCHASE

USERS RESPONSIBILITY; THIS MSDS IS INTENDED TO MEET THE SPECIFIC REQUIREMENTS OF 29 CFR 1910.1200 (U.S.A), HAZARDOUS PRODUCTS ACT AND CONTROLLED PRODUCTS REGULATIONS (CANADA), NOM 018 STPS 2000 (MEXICO), AND ANSI Z400.1-200, AND SHOULD BE USED ACCORDINGLY. WHILE THE INFORMATION HAS BEEN OBTAINED FROM SOURCES BELIEVED TO BE ACCURATE AND RELIABLE, NO WARRANTY, EXPRESSED OR IMPLIED, CAN BE MADE WITH REGARD TO ITS COMPLETENESS, CORRECTNESS OR ACCURACY. THIS MSDS IS OFFERED INTO THE WORK-PLACE FOR YOUR CONSIDERATION, INVESTIGATION AND CONCLUSIONS DRAWN HEREIN FROM SOURCES OTHER THAN DIRECT TEST DATA ON THE PRODUCT. SINCE CONDITIONS NECESSARY FOR THE SAFE USE OF THE PRODUCT ARE NOT UNDER CONTROL OF THE MANUFACTURER, IT IS THE BUYERS, DISTRIBUTORS AND USERS LEGAL RESPONSIBILITY TO DETERMINE THE CONDITIONS NECESSARY FOR THE SAFE USE OF THE CHEMICAL PRODUCT. FINAL DETERMINATION OF SUITABILITY OF ANY MATERIAL IS THE SOLE LEGAL RESPONSIBILITY OF THE BUYERS, DISTRIBUTORS, AND USERS OF THIS PRODUCT. ANY USERS, DISTRIBUTORS, HANDLERS OF THIS PRODUCT WHO ARE NOT UNDER THE DIRECT, LEGALLY DEFINED CONTROL OF J.D. STRETT & COMPANY INC., ARE RESPONSIBLE FOR EVALUATING THIS INFORMATION IN LIGHT OF THE PARTICULAR WORKPLACE ENVIRONMENT, AND ARE RESPONSIBLE FOR ALL LOSSES, DAMAGES OR EXPENSES THAT RESULT WHILE THIS PRODUCT IS UNDER THEIR CONTROL. IT IS ALSO THE RESPONSIBILITY OF THE USERS, DISTRIBUTORS, HANDLERS OF THIS PRODUCT TO OBSERVE ANY AND ALL LAWS AND REGULATIONS (FEDERAL, STATE, PROVINCIAL, AND LOCAL) CONCERNING THE TRANSPORTATION, USE, HANDLING, STORAGE, AND DISPOSAL OF THIS PRODUCT.

Physicians, Toxicologists,

*A full disclosure MSDS is available upon request for valid health and environmental emergency incidents only, by contacting (847) 459-5041 during regular business hours.

For additional product information, please contact J.D. Streett & Company, Inc. Sales office at (314) 432-6600.

Prepared by: J.D. Streett & Company, Inc.
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