

Safety Data Sheet

ENCOOL SOL-3250FNF-LF



Section 1. Identification

Product Identifier	ENCOOL SOL-3250FNF-LF		
Synonyms	WATER EXTENDABLE METALWORKING FLUID		
Manufacture Stock Numbers	10176		
Recommended use	WATER EXTENDABLE METALWORKING FLUID		
Uses advised against	Not Available		
Manufacturer Contact			
Address	Engineered Lubricants Co 11525 Rock Island Court Maryland Heights , MO, 63043 USA		
	Phone	Emergency Phone	Fax
	(314) 872-9540	(800) 424-9300 (US&CA)	(314) 872-9544
	Email	Website	
	sds@englube.com	www.englube.com	

Section 2. Hazards Identification

Classification	SENSITIZATION - SKIN - Category 1 SERIOUS EYE DAMAGE /EYE IRRITATION - Category 2A SKIN CORROSION/IRRITATION - Category 2
Signal Word	Warning
Pictogram	
Hazard Statements	Causes serious eye irritation Causes skin irritation May cause an allergic skin reaction
Precautionary Statements	
Response	If eye irritation persists: Get medical advice/attention If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Wash contaminated clothing before reuse.
Prevention	Avoid breathing dust/fume/gas/mist/ vapors/spray Contaminated work clothing must not be allowed out of the workplace. Wash thoroughly after handling. Wear eye protection/face protection. Wear protective gloves.
Storage	Store in well-ventilated place.
Disposal	Dispose of contents/container to local, state, and federal regulations. Empty containers must be completely empty with all closures in place, as per 49CFR173.29 & EPA 40CFR261.7. Do not reuse containers for waste and disposal.
Ingredients of unknown toxicity	0%
Hazards not Otherwise Classified	NONE
Additional Information	False

Section 3. Ingredients

CAS	Ingredient Name	Weight %
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102-71-6	Triethanolamine	< 9%
141-43-5	Ethanolamine	< 3%
126-86-3	5-Decyne-4,7-diol, 2,4,7,9-tetramethyl-	< 3%
39464-69-2	Poly(oxy-1,2-ethanediyl), alpha-(9Z)-9-octadecenyl-omega-hydroxy-, phosphate	< 1%
4719-04-4	1,3,5-Triazine-1,3,5(2H,4H,6H)-triethanol	< 2,0 %

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-Aid Measures

Eye	Flush thoroughly with water. If irritation occurs get medical assistance
Skin	Wash with soap and water. Get medical attention if irritation develops or persists. Wash clothing separately before reuse.
Ingestion	If swallowed, do NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

NOTES TO PHYSICIAN

Treat symptomatically.

Section 5. Fire Fighting Measures

Suitable Extinguishing Media	Use water fog, foam, dry chemical, or carbon dioxide (CO2) to extinguish flames.
Unsuitable Extinguishing Media	CAUTION: Water stream may spread fire.
Hazardous Combustion Products	Smoke, Fume, Incomplete combustion products, Oxides of carbon.
Fire Fighting Instructions	In the event of fire, cool tanks with water spray. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6. Accidental Release Measures

PERSONAL PRECAUTIONS	Use appropriate protective equipment (see Section 8).
ENVIRONMENTAL PRECAUTIONS	
Containment	Prevent entry into waterways, sewers, basement or confined areas.
Clean-up	Avoid runoff into storm sewers and ditches which lead to waterways.
METHODS FOR CONTAINMENT AND CLEAN UP	
Containment	Eliminate all ignition sources. Stop the flow of material, if this can be done without risk. Dike the spilled material, where this is possible.
Collect	Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust.
Clean-up	Forms smooth, slippery surfaces on floors, posing an accident risk. Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Vacuum or sweep up material and place in a disposal container.

Section 7. Handling and Storage

	Engineered Lubricants recommends the end user always adhere to NIOSH and OSHA published requirements and guidelines for handling, use, management, storage and disposal.
Handling	Do not use sodium nitrite or other nitrosating agents in formulations containing this product. Suspected cancer-causing nitrosamines could be formed. Use with adequate ventilation. Avoid breathing (dust, vapor, mist, gas). Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling.
Storage	Store in a cool dry place. Keep container closed when not in use.

Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits	Ingredient Name	ACGIH TLV TWA	OSHA PEL TWA	STEL
	Triethanolamine	5mg/m3	N/A	N/A
	Ethanolamine	6 mg/m3	6 mg/m3	N/A
	5-Decyne-4,7-diol, 2,4,7,9-tetramethyl-	N/A	N/A	N/A
	Poly(oxy-1,2-ethanediyl), alpha-(9Z)-9-octadecenyl-omega-hydroxy-, phosphate	N/A	N/A	N/A
	1,3,5-Triazine-1,3,5(2H,4H,6H)-triethanol	N/A	N/A	N/A

Personal Protective Equipment Goggles, Gloves

PERSONAL PROTECTION

Specific Hygiene Measures	Always observe good personal hygiene measures, such as washing after handling the material before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.
Skin Protection	Protective gloves and clothing are recommended.
Eyes	Wear safety glasses with side shields (or goggles) and a face shield.
Engineering Controls	Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Section 9. Physical and Chemical Properties			
Physical State	LIQUID	Color	TURQUOISE BLUE
Odor	MILD	Odor Threshold	N/A
Solubility	SOLUBLE IN H ₂ O.	Partition coefficient Water/n-octanol	N/A
Viscosity	N/A	Specific Gravity	1.101
Density lbs/Gal	9.19	Pounds per Cubic Foot	N/A
Flash Point	NOT DETERMINED-H ₂ O.	FP Method	N/A
Ph	9.5 ~10% IN AQUEOUS SOLUTION)	Melting Point	N/A
Boiling Point	~ 212 F	Boiling Range	N/A
LEL	N/A	UEL	N/A
Evaporation Rate	N/A	Flammability	N/A
Decomposition Temperature	N/A	Auto-ignition Temperature	N/A
Vapor Pressure	N/A	Vapor Density	N/A
VOC%	32.7 g/L (E1868-10A)		

Section 10. Stability and Reactivity	
Reactivity	None expected.
Stability	Material is stable under normal conditions.
Hazardous Reactions	Hazardous polymerization will not occur.
Conditions to Avoid	Do not use sodium nitrite or other nitrosating agents in formulations containing this product. Suspected cancer-causing nitrosamines could be formed.
Incompatible Materials	Strong oxidizers, Strong acids, Strong bases, Nitrites, Reducing agents, Halogenated Hydrocarbons.
Thermal Decomposition	Incomplete combustion may produce carbon monoxide and other asphyxiants. Oxides of Phosphorus, Oxides of nitrogen.

Section 11. Toxicological Information	
ACUTE ORAL TOXICITY	
ATEmix-Oral:	> 9,000 mg/kg
ACUTE INHALATION TOXICITY	
ATEmix-Inhalation (Dusts and Mists):	> 50 mg/L
ACUTE DERMAL TOXICITY	
ATEmix- Dermal:	> 2000 mg/kg
SKIN IRRITATION	
	Causes skin irritation.
EYE IRRITATION	
	Causes eye irritation.
REPRODUCTIVE TOXICITY	
	No data to indicate that the product is a reproductive toxin.
SKIN SENSITIZATION	
	May cause skin sensitization.
GERM CELL MUTAGENICITY	
	No data to indicate that the product will be a germ cell mutagen.
CARCINOGENICITY	
	No components present at 0.1% or greater are listed on IARC.

STOT-SINGLE EXPOSURE

No data to indicate that the product will cause specific target organ toxicity after single exposure.

STOT-REPEATED EXPOSURE

No data to indicate that the product will cause specific target organ toxicity after repeated exposure.

ASPIRATION HAZARD

NONE

Section 12. Ecological Information

ECOTOXICITY EFFECTS

No data available.

PERSISTENCE AND
DEGRADABILITY

No data available.

Section 13. Disposal

Waste Disposal Method

According to local, state, and federal regulations.

Contaminated Packaging

Empty containers should be taken to an approved waste handling site for local recycling or waste disposal.

Section 14. Transport Information

UN Number

N/A

UN Proper Shipping Name

N/A

DOT Classification

N/A

Packing Group

N/A

Not Regulated

Section 15. Regulatory Information

US REGULATIONS

SARA 311 CLASSIFICATIONS

Serious eye damage or eye irritation/ Respiratory or Skin Sensitization/ Skin Corrosion or Irritation/

SARA (313) TOXIC RELEASE

INVENTORY

No known reportable quantities.

CERCLA (Comprehensive
Environmental Response and
Liability Act of 1980, S 103)

No known reportable quantities.

EPCRA

No known reportable quantities.

IARC

No components listed on IARC.

CALIFORNIA PROP 65

WARNING: This product can expose you to chemicals including < 0.05% Diethanolamine; Methyloxirane, Ethylene Oxide, which is/are known to the state of California to cause cancer or reproductive harm. For more information go to [www.P65 Warnings.ca.gov](http://www.P65Warnings.ca.gov)

Section 16. Other Information

Revision Date

12/23/2019

Disclaimer

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LEGEND

DOT- Department of Transportation; IMDG-International Maritime Dangerous Goods;
IATA- International Air Transport Association; SARA-Superfund Amendments and Reauthorization Act;
CERCLA-Comprehensive Environmental Response, Compensation, and Liability Act; EPCRA-
Emergency Planning and Community Right-to-Know Act; IARC-International Agency for Research on
Cancer. STOT-Specific Target Organ Toxicity.

Additional Information

EL.10176.V3.R0