

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier:** ECOSE® Soluble Oil SS-MG  
**Other means of identification:** Metalworking Oil  
**SDS Number:** 535198  
**CAS Number:** Blend  
**CHEMTREC:** EMERGENCY CONTACT 1-800-424-9300  
**Supplier:**  
 Nu-Tier Brands, Inc.  
 8282 S. Memorial Dr., Suite 302  
 Tulsa, OK 74133  
 1-877-771-5823 (For Product Information)

### 2. HAZARDS IDENTIFICATION

#### GHS Ratings:

Oral toxicity	Acute Tox. 4	Oral >300+<=2000mg/kg
Skin corrosive	3	Reversible adverse effects in dermal tissue, Draize score: >=1.5<2.3
Skin sensitizer	1	Skin sensitizer

#### GHS Hazards:

H302 Harmful if swallowed  
 H316 Causes mild skin irritation  
 H317 May cause an allergic skin reaction

#### Signal Word:

Warning



#### GHS Precautions:

P261 Avoid breathing dust/fume/gas/mist/vapors/spray  
 P264 Wash skin thoroughly after handling  
 P270 Do not eat, drink or smoke when using this product  
 P272 Contaminated work clothing should not be allowed out of the workplace  
 P280 Wear protective gloves/protective clothing/eye protection/face protection  
 P321 Specific treatment (see First Aid section on this label/SDS)  
 P330 Rinse mouth  
 P363 Wash contaminated clothing before reuse  
 P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
 P302+P352 IF ON SKIN: Wash with soap and water  
 P332+P313 If skin irritation occurs: Get medical advice/attention  
 P333+P313 If skin irritation or a rash occurs: Get medical advice/attention  
 P501 Dispose of contents/container based on local, state, and federal regulations

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS	Concentration
Distillates, petroleum, hydrotreated light naphthenic	64742-53-6	30-40%
1,2 Propanediol	57-55-6	1-5%
Isopropanolamine	78-96-6	1-5%
Dicyclohexylamine	101-83-7	1-5%
Triethanolamine	101-83-7	1-5%
Trade Secret		1-5%
The specific identity and exact concentration of any included proprietary ingredient is withheld as a trade secret.		

### 4. FIRST AID MEASURES

**INHALATION FIRST AID:** If inhalation occurs, moved the exposed person to fresh air. Avoid further inhalation and seek medical attention.

**SKIN CONTACT FIRST AID:** In case of skin contact, remove contaminated clothing. Flush the skin with large amounts of water, then wash the skin with soap and water. If redness or irritation develops, seek medical attention.

**EYE CONTACT FIRST AID:** In case of eye contact, flush the eyes with water for fifteen (15) minutes. If contact lenses are worn, quickly remove them, then flush the eyes with water. If irritation develops seek medical attention.

**INGESTION FIRST AID:** In case of skin contact, remove contaminated clothing. Flush the skin with large amounts of water, then wash the skin with soap and water. If redness or irritation develops, seek medical attention.

### 5. FIREFIGHTING MEASURES

**NFPA 704 Hazard Class**

Health: 1      Flammability: 1      Instability: 0



0 (Minimal)  
1 (Slight)  
2 (Moderate)  
3 (Serious)  
4 (Severe)

**Extinguishing Media:** Use water fog, foam, dry chemical or carbon dioxide (CO<sub>2</sub>) to extinguish flames.

**Hazardous Combustion Products:** Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids and gases including carbon monoxide, carbon dioxide and other organic compounds will be evolved when the material undergoes combustion.

**Fire Fighting Instructions:** This material will burn. For fires involving this material, do not enter any enclosed or confined fire space without protective equipment including self-contained breathing apparatus.

**Fire Classification:** OSHA Classification (29 CFR 1910.1200). Not classified by OSHA as flammable.

### 6. ACCIDENTAL RELEASE MEASURES

**PROTECTIVE MEASURES:** Eliminate all sources of ignition in vicinity of spilled material.

**SPILL MANAGEMENT:** Stop the source of the release if you can do so 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 sopping up with 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:** Follow Local, State and Federal authority's regulations for reporting spills.

### 7. HANDLING AND STORAGE

**GENERAL HANDLING INFORMATION:** Avoid contaminating soil or releasing this product into sewage, drainage system and bodies of water.

**CONTAINER WARNINGS:** Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, flame, sparks, static electricity or other sources of ignition. Empty containers should be completely drained, properly closed and promptly returned to a drum reconditioner or disposed of properly.

**STORAGE CONDITIONS:** Store in dry indoor area, preferably under mild temperature conditions. Store in original packaging. Keep container tightly closed when not in use. Avoid freezing.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name/CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Distillates, petroleum, hydrotreated light naphthenic	PEL-TWA (8 hour) 5mg/m <sup>3</sup> as oil mist	TLV-TWA (8 hour) 5mg/m <sup>3</sup> as oil mist	None reported
1,2-Propanediol 57-55-6	None reported	None reported	WEEL/TWA-10mg/m <sup>3</sup> (Aerosol)
Isopropanolamine 78-96-6	TWA – 3 ppm	None reported	None reported
Trade Secret	None reported	None reported	None reported
Dicyclohexylamine 101-83-7	None reported	None reported	None reported
Triethanolamine 102-72-6	None reported	5 mg/m <sup>3</sup> TWA	None reported

**ENGINEERING CONTROLS:** Use in a well ventilated area.

**GENERAL CONSIDERATIONS:** Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

**EYE/FACE PROTECTION:** No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice.

**SKIN PROTECTION:** No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances in the workplace. Suggested materials for protective gloves include: Nitrile Rubber, Silver Shield, Viton.

**RESPIRATORY PROTECTION:** No respiratory protection is normally required. If user operations generate an oil mist, determine if airborne concentrations are below the occupational exposure limit. If not, wear an approved respirator that provides adequate protection from the measured concentrations of this material. For air-purifying respirators use a particulate cartridge. Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide adequate protection.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Note: Data represents typical values and are not intended to be specifications.**

Appearance:	Amber
Odor:	Amine
Physical State:	Liquid
Vapor Pressure:	Not determined
Odor Threshold:	Unknown
Vapor Density:	Not determined
pH:	9.2 +/- 0.3
Specific Gravity:	0.98
Viscosity SUS @ 100°F:	N/A
Freezing Point:	32°F / 0°C
Solubility:	Water
Boiling Point/Range:	100 - 335°C
Flash Point:	>329°F / 165°C
Evaporation Rate:	N/A
Flammability:	Unknown
Explosive Limits:	Unknown
Partition Coefficient (n-octanol/water):	Unknown
Autoignition Temperature:	Unknown
Decomposition Temperature:	Unknown

### 10. STABILITY AND REACTIVITY

**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 acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

**HAZARDOUS POLYMERIZATION:** Hazardous polymerization will not occur.

**HAZARDOUS DECOMPOSITION PRODUCTS:** None known (None expected).

### 11. TOXICOLOGICAL INFORMATION

**MIXTURE TOXICITY:** Oral Toxicity LD50: 239 mg/kg  
Component Toxicity (if applicable)

**CARCINOGENICITY:** The following chemicals comprise 0.1% or more of this mixture and are listed and/or classified as carcinogens or potential carcinogens by NTP, IARC, OSHA (mandatory listing), or ACGIH (optional listing).

<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
None			No data found

### 12. ECOLOGICAL INFORMATION

**COMPONENT ECOTOXICITY:**

Distillates, petroleum, Hydrotreated light naphthenic	96 Hr LC50 Oncorhynchus mykiss: >5000 mg/L 48 Hr EC50 Daphnia magna: >1000 mg/L
1,2-Propanediol	96 Hr LC50 Oncorhynchus mykiss: 51600 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 41-47 mL/L [static]; 96Hr LC50 Pimephales promelas: 51400 mg/L [static]; 96 Hr LC50 Pimephales promelas: 710 mg/L 48 Hr EC50 Daphnia magna: >1000 mg/L [static] 96 Hr EC50 Pseudokirchneriella subcapitata: 19000 mg/L
Isopropanolamine	96 Hr LC50 Pimephales promelas: 2390 - 2650 mg/L [flow-through] 48 Hr EC50 Daphnia magna Straus: 108.82 mg/L 72 Hr EC50 Desmodemus subspicatus: 23 mg/L
Dicyclohexylamine	96 Hr LC50 Brachydanio rerio: 62 mg/L [static]
Triethanolamine	96 Hr LC50 Pimephales promelas: 10600-13000 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: >1000 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 450 – 1000 mg/L [static] 72 Hr EC50 Desmodemus subspicatus: 216 mg/L; 96 Hr EC50 Desmodemus Subspicatus: 169 mg/L

### 13. DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL:** All disposal activities must comply with local, federal, and state environmental control regulations. Do not dispose into environment, in drain or in river, ponds, water reservoirs and soil.

### 14. TRANSPORTATION 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.

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
DOT	N.O.I.B.N.; NOT REGULATED AS A HAZARDOUS MATERIAL UNDER 49 CFR.			
IATA	NOT REGULATED AS DANGEROUS GOODS			
IMDG	NOT REGULATED AS DANGEROUS GOODS			



# Soluble Oil SS-MG

## SDS - Safety Data Sheet

### 15. REGULATORY INFORMATION

#### REGULATORY LISTS SEARCHED:

<u>Country</u>	<u>Regulation</u>	<u>All Components Listed</u>
US	California Prop 65	No
CA	Canada DSL	No
US	CERCLA	No
CN	China Inventory (IECSC)	No
EU	EINECS	No
MY	Malaysia Inventory (EHS Register)	No
US	SARA 311/312	No
US	TSCA	No

### 16. OTHER INFORMATION

#### HAZARDOUS MATERIAL INFORMATION SYSTEM (HMIS):

HMIS & NFPA Hazard Rating

Legend

\* = Chronic Health Hazard

0 = INSIGNIFICANT

1 = SLIGHT

2 = MODERATE

3 = HIGH Special

#### National Fire Protection Association (NFPA)

1 = Flammability

1 = Health

0 = Instability

None = Special

#### Ratings range from 0 (No Hazard) to 4 (Severe Hazard)

The data in this Material Safety Data Sheet relates only to the specific material designated herein.

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END OF MSDS