

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: ECOSE® HD-NC Soluble Oil
Other means of identification: Metalworking Oil
SDS Number: 535196
CAS Number: Blend
CHEMTREC: 1-800-424-9300 (For emergencies)

Supplier:
 Nu-Tier Brands, Inc.
 8282 S. Memorial Dr., Suite 302
 Tulsa, OK 74133
 1-877-771-5823 (For Product Information)
 www.nu-tierbrands.com

2. HAZARDS IDENTIFICATION

GHS Ratings:

Oral toxicity	Acute Tox. 4	Oral >300+<=2000mg/kg
Skin corrosive >=1.5<2.3	3	Reversible adverse effects in dermal tissue, Draize score:
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
Within the current knowledge of the supplier and in the concentrations applicable, there are no ingredients present which are classified as hazardous to health or the environment and hence required to be reported in this section.		

4. FIRST AID MEASURES

INHALATION FIRST AID: If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention.

SKIN CONTACT FIRST AID: Wash with soap and water. Remove contaminated clothing and wash before reuse. Get medical attention if needed.

EYE CONTACT FIRST AID: Flush with water for several minutes. If effects occur, consult a physician.

INGESTION FIRST AID: Do NOT induce vomiting. Contact a physician.

5. FIREFIGHTING MEASURES

NFPA 704 Hazard Class

Health: 1

Flammability: 0

Instability: 0



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

Extinguishing Media: Dry chemical, carbon dioxide, foam, or water spray is recommended. Water or foam may cause frothing of materials heated above 212°F/100°C. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam.

Specific hazards arising from the chemical:

Unusual Fire & Explosion Hazards: This material may burn, but will not ignite readily. If container is not properly cooled, it can rupture in the heat of a fire.

Hazardous Combustion Products: Combustion may yield smoke, carbon monoxide, and other products of incomplete combustion. Oxides of sulfur, nitrogen or phosphorus may also be formed.

Special protective actions for firefighters: For fires beyond the initial stage, emergency responders in the immediate hazard area should wear protective clothing. When the potential chemical hazard is unknown, in enclosed or confined spaces, a self contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8).

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Cool equipment exposed to fire with water, if it can be done safely. Avoid spreading burning liquid with water used for cooling purposes.

See Section 9 for Flammable Property Including Flash Point

6. ACCIDENTAL RELEASE MEASURES

Contain spilled material.
Collect in suitable and properly labeled containers.
Pick up excess with inert absorbent material.
Keep away from drains and ground water.

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:

Product contains Amines. Sodium Nitrite or other nitrosating agents should not be added to this product. This step will prevent the formation of nitrosamines which are known to be animal carcinogens.
Launder contaminated clothes before reuse. Avoid prolonged breathing of mist and vapors. Use as directed. Normal precautions common to good manufacturing practices should be followed in handling and storing. Store away from food. Wash hands before eating, drinking or smoking and after handling.

CONDITIONS FOR SAFE STORAGE:

Keep container closed. Store in a cool, well-ventilated area away from food or feed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

CONTROL PARAMETERS:

Exposure Guidelines:

Base oil (as mist) OSHA PEL: 5 mg/m³ Triethanolamine ACGIH TLV: 5 mg/m³

Appropriate engineering controls:

Proper protection and controls is dependent upon the potential exposure conditions. Adequate ventilation should be provided so that exposure limits are not exceeded.

Individual protective measures:

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

Respiratory protection:

None normally required. If mist is in excess of 5 mg/m³, use NIOSH-approved respirator.

Eye protection:

If contact is likely, safety glasses with shields or chemical goggles are required. Contact lenses should not be worn if the product could be splashed into the eyes.

Hand protection:

Chemical/oil resistant gloves are recommended.

Body protection:

Chemical/oil resistant clothing is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

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

Physical State:	Liquid
Color:	Amber
Odor:	Mild
pH:	9.2 [conc. (% w/w): 3%]
Boiling point:	Not available
Flash point:	Closed cup: >100°C (>212°F)
Evaporation rate:	<1 (butyl acetate = 1)
Lower and upper explosive (flammable) limits:	Not available
Vapor pressure:	<0.13 kPa (<1 mm Hg) [room temperature]
Vapor density:	>1 [Air = 1]
Relative density:	1.01
Density lbs/gal:	Estimated 7.82 lbs/gal
Gravity, Specific:	Estimated 0.94 @ 60°F
Solubility:	Easily soluble in the following materials: cold water

10. STABILITY AND REACTIVITY

REACTIVITY: Not chemically reactive.

CHEMICAL STABILITY: Stable under normal ambient and anticipated conditions of use.

POSSIBILITY OF HAZARDOUS REACTIONS: Hazardous reactions not anticipated.

CONDITIONS TO AVOID: Avoid all possible sources of ignition. Extended exposure to high temperatures can cause decomposition.

INCOMPATIBLE MATERIALS: Avoid contact with strong oxidizing agents and strong reducing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Not anticipated under normal conditions of use.

11. TOXICOLOGICAL INFORMATION

INHALATION: Inhalation of vapors or mists may be irritating to the respiratory tract.

SKIN: Prolonged or repeated contact may cause drying and defatting of the skin, leading to irritation.

EYES: Contact may cause mild, short-lasting irritation.



HD - NC Soluble Oil

SDS - Safety Data Sheet

ORAL: Small amounts ingested incidental to normal handling are not likely to cause injury; Larger amounts ingested may cause injury.

SYSTEMIC (OTHER TARGET ORGAN) EFFECTS: None known

TERATOLOGY (BIRTH DEFECTS): None known

REPRODUCTIVE EFFECTS: None known

MUTAGENICITY (EFFECTS ON GENETIC MATERIAL): None known

CARCINOGENICITY: IARC: NO NTP: NO OSHA: NO

12. ECOLOGICAL INFORMATION

PERSISTENCE AND DEGRADABILITY: Expected to be readily biodegradable

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with federal, state and local regulations.
Do not flush to surface water or drains.

14. TRANSPORTATION INFORMATION

Not regulated by DOT

15. REGULATORY INFORMATION

US TSCA: In compliance with the inventory

CANADA DSL: In compliance with the inventory

OSHA HAZARD COMMUNICATION STANDARD: When used for its intended purpose, this material is classified as hazardous in accordance with OSHA 29CFR 1910.1200.

Complies with the following national/regional chemical inventory requirements: ENCS, IECSC, DSL, AICS, TSCA, KECI, PICCS

EPCRA: This material contains no extremely hazardous substances.

CERCLA: This material is not subject to any special reporting under the requirements of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). CERCLA petroleum exclusion applies for this product. Contact local authorities to determine if other reporting requirements apply.

SARA (311/312) REPORTABLE HAZARD CATEGORIES: None.

SARA (313) TOXIC RELEASE INVENTORY: This material contains no chemicals subject to the supplier notification requirements of the SARA 313 Toxic Release Program.

CAL. PROP. 65 This product does not intentionally contain any chemicals known by the State of California to cause cancer and/or birth defects. Moreover, we do not routinely analyze its products for impurities which may be such chemicals.

VOC Content (SCAQMD ASTM 1868-10) : <100 g/l concentrate; <10 g/l at maximum recommended dilution of 10%.

16. OTHER INFORMATION

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

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Nu-Tier Brands, Inc. The data on this sheet are related only to the specific material designated herein. Nu-Tier Brands, Inc. assumes no legal responsibility for use or reliance upon these data.

END OF SDS