



SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Enhance™ Tri-Purpose Cutting Oil 110

PRODUCT USE: Mineral Oil Based Metal Working Fluid; For Industrial Use

COMPANY IDENTIFICATION: Enhance™ Lubricants, LLC
1959 Bluff Road
Columbia, SC 29201
www.enhanceoil.com

TRANSPORTATION EMERGENCY RESPONSE: PERS – 800-633-8253

SECTION 2: HAZARDS IDENTIFICATION

CLASSIFICATION: Serious eye damage/eye irritation - Category 2

HAZARD PICTOGRAMS:



SIGNAL WORD: Warning

HAZARD STATEMENTS:

H314: Causes severe skin burns

H318: Causes serious eye damage

H319: Causes serious eye irritation

H411: Toxic to aquatic life with long lasting effects

PRECAUTIONARY STATEMENTS:

P280: Wear protective gloves/protective clothing/eye protection/face protection

P305+351+338: Rinse cautiously with water for several minutes if in eyes; remove contact lenses if present and easy to do – continue rinsing

P337+313: If eye irritation persists, get medical advice/attention

HAZARDS NOT OTHERWISE CLASSIFIED: NA

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Substance	Hazard Category	CAS Number	Amount %
Highly refined mineral oil	Not Classified	Mixture	85-95

Zinkdialkyldithiophosphate	Skin Irrit. Cat.2, H314 Eye Damage cat.1, H318 Aquatic Chronic cat.2, H411	68649-42-3	< 2.5
----------------------------	--	------------	-------

SECTION 4: FIRST AID MEASURES

EYES: Rinse immediately with plenty of water. Seek medical advice.

SKIN: Immediately remove clothing and shoes if contaminated. To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse.

INGESTION: Rinse mouth with water. Do not induce vomiting. As a precaution, get medical advice.

INHALATION: Move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs.

SECTION 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

UNUSUAL FIRE HAZARDS: Leaks/ruptures in high pressure system using materials of this type can create a fire hazard when in the vicinity of ignition sources (eg. open flame, pilot lights, sparks, or electric arcs).

PROTECTION OF FIRE FIGHTERS:

FIRE FIGHTING INSTRUCTIONS: This material will burn although it is not easily ignited. See Section 7 for proper handling and storage. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

COMBUSTION PRODUCTS: Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion.

EXPLOSIVE LIMITS: LEL approx.. 0.6 vol% UEL approx.. 6.5 vol% (est. values)

SECTION 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 it 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 applying 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: Report spills to local authorities.

SECTION 7: HANDLING AND STORAGE

GENERAL HANDLING INFORMATION: Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

PRECAUTIONARY MEASURES: Use only in well ventilated areas. Keep container closed. Wear appropriate PPE. Keep out of the reach of children.

CONTAINER WARNINGS: Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Store in a cool area and protect from freezing and heat. Store in closed containers suitable for the product.

INCOMPATIBILITIES: Store away from strong oxidizing agents (refer to Section 10).

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

GENERAL CONSIDERATIONS:

Consider the potential hazards of this material (see Section 3), 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.

ENGINEERING CONTROLS: Use in a well-ventilated area

EYE/FACE PROTECTION: Where splashing is possible, wear safety glasses with side shields.

RESPIRATORY PROTECTION: No respiratory protection is normally required if used in well ventilated areas.

SKIN/BODY PROTECTION: Wear solvent resistant gloves. Wear oil-proof skin cream if wearing gloves is not possible. Follow skin protection plan.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

If user operations generate an oil mist, determine if airborne concentrations are below the occupational exposure limit for mineral oil mist. If not, wear an approved respirator that provides adequate protection from the measured concentrations of this material.

Color: Amber

Physical State: Liquid

Odor: Typical

Odor Threshold: No data available

pH: No data available

Vapor Pressure: Not determined

Boiling Point: No data available

Solubility: Insoluble in water

Freezing Point: Not applicable

Melting Point: No data available

Viscosity (40°C): 32 mm²/s

Specific Gravity: (20°C) 870 kg/m³

Evaporation Rate: No data available

Decomposition Temperature: No data available

Octanol/Water Partition Coefficient: No data available

Flash Point: >365°F

Upper Flam Limits: No data available

Lower Flam Limits: No data available

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: Not expected to be explosive, self-reactive, self-heating, or an organic peroxide under US GHS Definition(s).

CHEMICAL STABILITY: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

INCOMPATIBILITY WITH OTHER MATERIALS: Not applicable

HAZARDOUS DECOMPOSITION PRODUCTS: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

HAZARDOUS POLYMERIZATION: No data available.

SECTION 11: TOXICOLOGICAL INFORMATION

GENERAL INFORMATION: Acute toxicity, skin irritation, mucous membrane irritation, mutagen potential and skin sensitizing of the mixture had been evaluated based on the available data of the components. Data available on the single components are partially incomplete.

TOXICOLOGICAL INFORMATION: Product has not been tested. Irritating in case of skin or eye contact. May be fatal if swallowed and enters airways.

LIKELY ROUTES OF EXPOSURE: Inhalation of vapors, skin and eye contact

Hazardous Substance	LD50 Oral	LD50 Dermal	LC50 Inh.	Irritancy
Highly refined mineral oil	>5000 mg/kg (rat)	>2000 mg/kg (rabbit)	>5.0 mg/1 (rat) Exposure time: 4 hours Test Atmosphere: dust/mist	NA

CARCINOGENICITY OR MUTAGENICITY: No data available

SENSITIZATION: Product is not expected to be a sensitizer

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: No data available

MOBILITY: No data available

PERSISTENCE/DEGRADABILITY: No data available

BIOACCUMULATION: Bioconcentration Factor: No data available. Octanol/Water Partition Coefficient: No data available

SECTION 13: DISPOSAL CONSIDERATIONS

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: TRANSPORT 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.

DOT: Not regulated

IMO/IMDG: Not regulated

ICAO/IATA: Not regulated

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code: Not applicable

SECTION 15: REGULATORY INFORMATION

SARA

Section 311/312: This product does not contain any hazardous ingredients at or above regulated thresholds.

Section 313 (specific toxic chemical listings): This product does not contain any hazardous ingredients at or above regulated thresholds.

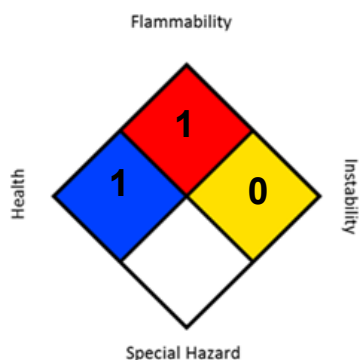
TSCA (Toxic Substances Control Act): All components are listed or exempted.

SECTION 16: OTHER INFORMATION

NFPA RATINGS: Health: 1 Flammability: 1 Reactivity: 0 Special Hazards: NA

HMIS RATINGS: Health: 1 Flammability: 1 Reactivity: 0 Personal Protection: NA

NFPA:



HMIS III:

HEALTH	1
FLAMMABILITY	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B

0 = not significant, 1 = Slight, 2 = Moderate,
3 = High, 4 = Extreme, * = Chronic

DISCLAIMER

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose

Issue Date:

Revision Date (1): 08.11.2017

Revision Date (2): 07.23.2019