





Metlab Corporation Heavy Duty (HD) Water Soluble Cutting Oil

Safety Data Sheet

Conforms to United States Regulation OSHA HazCom

P301+P310 – IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P331: DO NOT induce vomiting

P302+P352 - IF ON SKIN: Wash with plenty of soap and water
P332+P313 – If skin irritation occurs: Get medical advice/attention.

P305+P351+P338 - IF IN EYES: Wash cautiously for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

Storage P405 – Store locked up

Disposal P501 - Dispose of contents and container in accordance with all local, regional, national, and international regulations

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity

11% of the mixture consists of ingredient(s) of unknown acute toxicity

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixtures

Ingredient Name	CAS Number	Weight %
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	65 - 85
Benzene, mono-C10-13-alkyl derivs., fractionation bottoms, heavy ends, sulfonated, sodium salts	148520-82-5	5 – 10
Triethanolamine	102-71-6	1 – 5
4-(2-nitrobutyl)-Morpholine	2224-44-4	0.5 – 1.5

SECTION 4 : First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

First-aid measures after skin contact : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. Call a physician if irritation develops and persists.

First-aid measures after eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention immediately.

First-aid measures after ingestion : If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Seek medical attention/advice if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : May cause respiratory tract irritation.

Symptoms/injuries after skin contact : Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin. May cause an allergic skin reaction.

Symptoms/injuries after eye contact : Causes serious eye damage. Symptoms may include discomfort or pain, excessive blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns.

Symptoms/injuries after ingestion : May be fatal if swallowed and enters airways. May cause stomach distress, nausea, or vomiting. This product may be aspirated into the lungs and cause chemical pneumonitis.

4.3. Indication of any immediate medical attention and special treatment needed

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

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SECTION 5 : Firefighting measures

5.1. Extinguishing Media

Suitable Extinguishing Media: Water spray, dry chemical, foam, carbon dioxide.

Unsuitable Extinguishing Media: None known.

5.2. Special Hazards Arising from the Chemical

Fire Hazard: May include, but are not limited to oxides of carbon, oxides of sulfur, oxides of nitrogen..

5.4. Special Protective Equipment and Precautions for Fire Fighters

Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

SECTION 6 : Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

6.1.2. For emergency responders: No additional information available.

6.2. Methods and material for containment and cleaning up

For containment : Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow the material to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for cleaning up : Vacuum or sweep material and place in a disposal container. Provide ventilation.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Do not swallow. Open and handle container with care. When using do not eat, drink or smoke. Do not breathe gas/fumes/vapor/spray. (See Section 8)

General hygiene advice : Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep out of the reach of children. Keep container tightly closed. Store in a cool, dry, well ventilated place away from incompatible materials. (See Section 10).

7.3. Specific End use(s)

Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Guidelines

Occupational Exposure Limits	OSHA-PEL	ACGIH-TLV
Ingredient Name		
Distillates (petroleum), hydrotreated heavy naphthenic	5 mg/m ³	5 mg/m ³
Benzene, mono-C10-13-alkyl derivs., fractionation bottoms, heavy ends, sulfonated, sodium salts	Not available	Not available
Triethanolamine	Not available	5 mg/m ³
4-(2-nitrobutyl)-Morpholine	Not available	Not available

8.2. Exposure controls

Engineering Controls	: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.
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8.3. Individual Protective Measures

Personal Protective Equipment	
Hand protection	: Wear chemical resistance protective gloves.
Eye protection	: Wear approved eye protection.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product, and the safe working limits of the selected respirator.
General health and safety measures	: Handle according to established industrial hygiene and safety practices.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance, physical state and color	: Clear brown-colored liquid
Odor	: Oily
Odor threshold	: No data available
pH	: No data available
Melting point / Freezing Point	: No data available
Initial boiling point / Boiling range	: No data available
Flash point	: ~ 154.4°C (~ 309.92°F)
Relative evaporation rate	: Negligible
Flammability (solid, gas)	: Not flammable
Lower flammable / Explosive limit	: No data available
Upper flammable / Explosive limit	: No data available
Vapor pressure	: 1 mm Hg
Vapor density	: No data available
Relative density	: 0.92
Solubility	: Complete
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: ~ 260°C (~ 500°F)
Decomposition temperature	: No data available
Viscosity, kinematic	: 46 cSt @ 40°C
Viscosity, dynamic	: No data available
Oxidizing properties	: No data available
Explosive properties	: No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

Stable under normal storage conditions.

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

Heat. Incompatible materials.

10.5. Incompatible materials

Strong oxidizers

10.6. Hazardous decomposition products

May include, but are not limited to oxides of carbon, oxides of phosphorous sulfur dioxide

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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Heavy Duty (HD) Water Soluble Cutting Oil	
LD50 oral rat	No data available
LD50 dermal rabbit	No data available
LC50 inhalation rat	No data available

Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	
LD50 oral rat	No data available
LD50 dermal rabbit	No data available
LC50 inhalation rat	No data available

Benzene, mono-C10-13-alkyl derivs., fractionation bottoms, heavy ends, sulfonated, sodium salts (148520-82-5)	
LD50 oral rat	>5000 mg/kg
LD50 dermal rabbit	>2000 mg/kg
LC50 inhalation rat	2.18 mg/liter, 4 hours

Triethanolamine (102-71-6)	
LD50 oral rat	4190 mg/kg
LD50 dermal rabbit	>20 mL/kg
LC50 inhalation rat	No data available

4-(2-nitrobutyl)-Morpholine (2224-44-4)	
LD50 oral rat	625 mg/kg
LD50 dermal rabbit	420 mg/kg
LC50 inhalation rat	No data available

Ingredient	Chemical Listed as a Carcinogen or Potential Carcinogen (NTP, IARC, OSHA, ACGIH, Prop 65) (See Section 15 for more information)
Distillates (petroleum), hydrotreated heavy naphthenic	Not listed
Benzene, mono-C10-13-alkyl derivs., fractionation bottoms, heavy ends, sulfonated, sodium salts	Not listed
Triethanolamine	I-3
4-(2-nitrobutyl)-Morpholine	Not listed

Skin Corrosion/Irritation:

Serious Eye Damage/Irritation:

Respiratory or Skin Sensitization:

Germ Cell Mutagenicity:

Carcinogenicity:

Reproductive Toxicity:

Specific Target Organ Toxicity - Single Exposure:

Specific Target Organ Toxicity - Repeated Exposure:

Aspiration Hazard:

Symptoms/injuries after inhalation:

Symptoms/injuries after skin contact:

Symptoms/injuries after eye contact:

Symptoms/injuries after ingestion:

Causes skin irritation.

Causes serious eye damage.

May cause an allergic skin reaction.

Based on available data, the classification criteria are not met.

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May cause respiratory tract irritation.

Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin. May cause an allergic skin reaction.

Causes serious eye damage. Symptoms may include discomfort or pain, excessive blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns.

May be fatal if swallowed and enters airways. May cause stomach distress, nausea, or vomiting. This product may be aspirated into the lungs and cause chemical pneumonitis.

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SECTION 12: Ecological information

12.1. Ecotoxicity

Acute/Chronic Toxicity May cause long-term adverse effects in the aquatic environment.

12.2. Persistence and degradability

Persistence and degradability Not available

12.3. Bioaccumulative potential

Bioaccumulation Not available

12.4. Mobility in soil

Not available

12.5. Other adverse effects

Not available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal Method: This material must be disposed of in accordance with all local, state, provincial, and federal regulations.

Other Disposal Recommendations: Not available.

SECTION 14: Transport information

In accordance with DOT

14.1 UN NUMBER

Not regulated

14.2 UN PROPER SHIPPING NAME

Not regulated

14.3 ADDITIONAL INFORMATION

Other information: No supplementary information available.

Special transport precautions: Do not handle until all safety precautions have been read and understood.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the chemical

15.1.1. United States : Safety data sheet prepared pursuant to the Hazard Communication Standard, 29 CFR 1910.1200 OSHA HazCom)

SARA Title III				
Ingredient Name	Section 302 (EHS) TPQ (lbs.)	Section 304 EHS RQ (lbs.)	CERCLA RQ (lbs.)	Section 313
Distillates (petroleum), hydrotreated heavy naphthenic	Not listed	Not listed	Not listed	Not listed
Benzene, mono-C10-13-alkyl derivs., fractionation bottoms, heavy ends, sulfonated, sodium salts	Not listed	Not listed	Not listed	Not listed
Triethanolamine	Not listed	Not listed	Not listed	Not listed
4-(2-nitrobutyl)-Morpholine	Not Listed	Not Listed	Not listed	Not listed

State Regulations
California Proposition 65:
This product does not contain a chemical know to the State of California to cause cancer, birth defects, or other reproductive harm.

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Ingredient Name	USA TSCA
Distillates (petroleum), hydrotreated heavy naphthenic	Yes
Benzene, mono-C10-13-alkyl derivs., fractionation bottoms, heavy ends, sulfonated, sodium salts	Yes
Triethanolamine	Yes
4-(2-nitrobutyl)-Morpholine	No

NFPA - National Fire Protection Association	
Health:	2
Fire:	1
Reactivity:	0

Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

CP65 California Proposition 65

OSHA Occupational Safety and Health Administration.

ACGIH American Conference of Governmental Industrial Hygienists.

- A1 - Confirmed human carcinogen.
- A2 - Suspected human carcinogen.
- A3 - Animal carcinogen.
- A4 - Not classifiable as a human carcinogen.
- A5 - Not suspected as a human carcinogen.

IARC International Agency for Research on Cancer.

- 1 - The agent (mixture) is carcinogenic to humans.
- 2A - The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.
- 2B - The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in the absence of sufficient evidence of carcinogenicity in experimental animals.
- 3 - The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.
- 4 - The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.

NTP National Toxicology Program.

- 1 - Known to be carcinogens.
- 2 - Reasonably anticipated to be carcinogens.

SECTION 16: Other information

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End of Safety Data Sheet