

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name and Use: FORMALL 2312 - Metal Forming Lubricant

Manufacturer: Lamson Oil Company
5060 27th Avenue, Rockford, Illinois 61109 USA

Telephone Number: (815) 226-8090

Emergency Number: Call (Infotrac) (800) 535-5053

Please call INFOTRAC in the event of a transportation or medical emergency involving a human or an animal.

2. HAZARD IDENTIFICATION



Signal Word: Danger

Physical and Health Hazards:

Serious Eye Damage: Category 1

Skin Irritation: Category 2

Acute Toxicity (Oral): Category 4

Hazard Statements:

Causes serious eye damage.

Causes skin irritation.

Harmful if swallowed.

Precautionary Statements:

Do not breathe mist, vapors, or spray.

Wear protective gloves and eye/face protection. Wash hands thoroughly after handling.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Get medical attention.

IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water.

If skin irritation occurs, get medical attention.

Wash contaminated clothing before reuse.

IF SWALLOWED: Immediately call a Poison Center or Physician. Do not induce vomiting.

In case of fire: Use water fog, foam, dry chemical or carbon dioxide (CO₂) for extinction.

Store in a well ventilated place. Keep cool.

Avoid release to the environment. Collect spillage.

Dispose of contents and container in accordance with local regulations.

3. COMPONENTS

Substantial Ingredients

	CAS #	Weight %	GHS Classification
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	> 10%	Eye Ir 2, Skin Ir 2
Emulsifier Base	Mixture	> 10%	Eye Ir 2, Skin Ir 2
Chlorinated Alkanes, C14-16	63449-39-8	> 10%	Aquatic Acu 1, Chr 1
Boron Alkanolamide	mixture	< 10%	Eye Dam 1, Skin Ir 2 , Ac Tox 4
Diisopropanolamine	110-97-4	< 2%	Eye Ir 2
Nitrobutyl Morpholine	2224-44-4	< 2%	Act Tox 4, Skin Ir 2 Eye Cor 1 Skin Sen 1
Diethanolamine	111-42-2	< 0.3%	Acute Tox Oral 4, Skin Irr 3 Eye Damage 1, Aquatic Tox 3

4. FIRST AID MEASURES

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Get medical attention.

IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water.

If skin irritation occurs, get medical attention.

IF SWALLOWED: Immediately call a Poison Center or Physician. Do not induce vomiting.

IF INHALED: Remove to fresh air; apply artificial respiration if necessary. Get medical attention.

5. FIRE-FIGHTING MEASURES

General Hazard

Petroleum products can form combustible mixtures at temperatures at or above the flash point.

Fire-Fighting

Keep fire exposed containers cool with water spray. Separate unburning product from fire. Use carbon dioxide, foam, or dry chemical extinguishing media to put out fires.

Unusual Decomposition Products Under Fire Conditions

None

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Remove contaminated clothing, including shoes and wash thoroughly after contact.

Laundry contaminated clothing before reuse.

Environmental Precautions

Stop leak if without risk.

Dike large spills to prevent ingress into sewers or waterways.

Eliminate all sources of ignition.

Ensure adequate ventilation.

Clean spills with absorbent and store in marked containers for disposal.

Dispose in accordance with all applicable regulations.

7. HANDLING AND STORAGE

Safe Handling and Storage

Do not handle, store, or dispense near open flames or ignition sources.
 Keep containers inside and out of direct sunlight. Avoid extreme temperatures.
 Do not reuse containers.

Incompatible Products

Avoid strong oxidizing and reducing agents.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Ventilation

Local exhaust is usually sufficient. General exhaust is preferred.

Personal Protection

Use approved respirator when airborne exposure limits are exceeded. Use petroleum resistant gloves to avoid prolonged contact. Wear goggles or safety glasses with splashguards.

Work Place Exposure Guide Lines

Petroleum Oil mist has a TLV limit of 5 mg/m³.
 Diethanolamine has a TLV of 1 ppm (ACGIH).

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	> 500 °F
Specific Gravity (water =1):	1.04
Vapor pressure (mm Hg):	< 1
Melting Point:	Not Applicable
Vapor Density (Air =1):	> 5
Evaporation Rate (butyl Acetate=1):	Non-volatile
Solubility in water:	Emulsifies
Reactivity in water:	NIL
Appearance and Odor:	Clear, brown liquid; mild odor
Flash point:	>330 °F
Flammable Limits (volume percent in air):	LEL: Not Established UEL: Not Established
Autoignition Temperature: approximately	Not Established

10. STABILITY AND REACTIVITY

Stability: [] Unstable [X] Stable

Conditions to avoid: None

Incompatibility (Materials to avoid): Strong oxidizing and reducing agents.

Hazardous Decomposition Products: Combustion may produce HCl and oxides of carbon.

Hazardous Polymerization: [] May Occur [X] Will Not Occur

Conditions to Avoid: Not Applicable

11. TOXICOLOGICAL INFORMATION

Harmful if swallowed. This product contains ingredients that are acute oral toxins.

No data is available to indicate that any ingredient is mutagenic or genotoxic.

This product is not expected to cause reproductive or developmental effects.

Nitrobutyl Morpholine in its pure form is a known skin sensitizer; but because of the low amount contained, this product is not expected to cause skin sensitization.

This product causes serious eye damage.

Prolonged or repeated exposure to the skin may result in possible irritation and dermatitis.

Exposure to vapor or aerosol concentrations above the recommended exposure level is irritating to the eyes and respiratory tract, and may cause headaches or dizziness in the short term.

Continual long term exposure of Diethanolamine above the recommended levels may cause damage to organs.

Diethanolamine is a confirmed animal carcinogen with unknown relevance to humans (ACGIH)

12. ECOLOGICAL INFORMATION

This product is considered a Marine Pollutant.

This product is very toxic to aquatic life with lasting effects.

This product contains a Volatile Organic Compound: So part of it will slowly evaporate upon release.

Please refer to Section 6 for accidental release information.

13. DISPOSAL CONSIDERATIONS

This product is not suitable for disposal by either landfill or municipal sewers, natural streams or rivers.

This product can be incinerated directly in appropriate equipment.

14. TRANSPORT INFORMATION

For containers of 119 gals or less the DOT does not regulate this product for Air or Ground shipments.

Sea (IMDG) and bulk Shipping Description: UN 3082 Environmentally hazardous substances, liquid, n.o.s. (Alkanes, C14-17, chloro), 9, PG III, MARINE POLLUTANT

15. REGULATORY INFORMATION

All components of this product are on the U.S. EPA TSCA Inventory List.

This product contains a reportable chemical under SARA section 313: Diethanolamine

16. OTHER INFORMATION

This document was revised 11 May 2015

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