



SAFETY DATA SHEET

Print date: 10/26/2015

Revision Date: 10/26/2015

Revision Number: 1

1. COMPANY AND PRODUCT IDENTIFICATION

Product identifier

Product Name: EVOLUBE 1201

Product code: 016245-01

Other means of identification

Synonyms No information available

Application

Recommended Use Lubricating Grease
Uses advised against For industrial use only

Supplier/Manufacturer:

Supplier:

ENGINEERED CUSTOM LUBRICANTS (ECL)
3851 Exchange Avenue
Aurora, IL 60504 USA
Phone: (630)449-5000

Emergency telephone number:

* 24 HOUR TRANSPORTATION:
**CHEMTREC: 1-800-424-9300
+703-527-3887 (Call collect outside of US)
* 24 HOUR EMERGENCY HEALTH & SAFETY:
**(800) 523-7010 (Within US only) Outside of US call (703)
527-3887

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

| | |
|--|------------|
| Skin corrosion/irritation | Category 2 |
| Skin Sensitization | Category 1 |
| Specific target organ toxicity (single exposure) | Category 3 |
| Aspiration toxicity | Category 1 |
| Acute aquatic toxicity | Category 1 |
| Chronic aquatic toxicity | Category 1 |
| Flammable liquids | Category 2 |

Label Elements

Emergency Overview

DANGER

Hazard Statements

Causes skin irritation
May cause an allergic skin reaction
May cause drowsiness or dizziness
Very toxic to aquatic life with long lasting effects
May be fatal if swallowed and enters airways
Highly flammable liquid and vapor



Appearance Blue

Physical State Liquid

Odor Solvent

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection
Avoid breathing dust/fume/gas/mist/vapors/spray
Contaminated work clothing should not be allowed out of the workplace
Use only outdoors or in a well-ventilated area
Avoid release to the environment
Keep away from heat/sparks/open flames/hot surfaces. — No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use explosion-proof electrical/ventilating/lighting/ construction /equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Keep cool

Precautionary Statements - Response

Specific treatment (see First Aid on this label)
If skin irritation or rash occurs: Get medical advice/attention IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Do not induce vomiting
In case of fire: Use CO₂, dry chemical, or foam for extinction
Collect spillage

Precautionary Statements - Storage

Store locked up
Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None known

Other Information

None known.

Unknown acute toxicity 1.5% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Components | CAS No | Weight % |
|-------------------------------------|------------|----------|
| 2,2,4 -TRIMETHYLPENTANE | 540-84-1 | 50 - 60% |
| NAPHTHA (PETROLEUM), LIGHT ALKYLATE | 64741-66-8 | 10 - 15% |
| 1-Naphthalenamine, N-phenyl- | 90-30-2 | <1% |

The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

General advice: Show this safety data sheet to the doctor in attendance Remove contaminated clothing and shoes. Wash contaminated clothing before re-use. Wash off with soap and water. If symptoms persist, call a physician

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes

Skin contact: Remove and wash contaminated clothing before re-use. Wash off immediately with soap and plenty of water.

Ingestion: If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person

Inhalation: Move to fresh air in case of accidental inhalation of vapors. If not breathing, give artificial respiration If breathing is difficult, give oxygen Consult a physician.

Note to physician: Treat symptomatically.

Medical condition aggravated by exposure: None known.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Use dry chemical, CO2, water spray or `alcohol` foam.

Specific hazards: Do not allow material to contaminate ground water system.

Special protective equipment for fire-fighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

Specific methods: Water mist may be used to cool closed containers

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Ensure adequate ventilation. Do not breathe vapour/dust. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling.

Environmental precautions: Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so.

Methods for cleaning up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Handling

Technical measures/precautions: Provide sufficient air exchange and/or exhaust in work rooms.

Safe handling advice: In case of insufficient ventilation, wear suitable respiratory equipment. Do not breathe vapors or spray mist. Wear personal protective equipment. Avoid contact with skin and eyes. Wash thoroughly after handling.

Storage

Technical measures/storage conditions: Store at room temperature in the original container.

Incompatible products: Strong oxidizing agents

Safe storage temperature: 40 - 100 ° F

Shelf life: 36 months

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| Components | ACGIH Exposure Limits | OSHA TWA (final) | NIOSH - Pocket Guide |
|---|-----------------------|---------------------|----------------------|
| 2,2,4 -TRIMETHYLPENTANE | 300 ppm (TWA) | 500 ppm | None |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | 5 mg/m ³ | 5 mg/m ³ | None |

Engineering measures: Ensure adequate ventilation

Personal Protective Equipment:

General: Eye Wash and Safety Shower

Respiratory protection: If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, a NIOSH-certified respirator with organic vapor/P100 filter should be worn.

Eye protection: Safety glasses with side-shields

Hand protection: Neoprene gloves

Skin and body protection: Long sleeved clothing

Hygiene measures: Avoid contact with skin, eyes and clothing.



9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|--------------------------|
| Physical State | Liquid |
| Appearance | Blue |
| Odor | Solvent |
| Odor Threshold | No information available |
| pH concentrate: | No information available |
| pH Dilution | No information available |
| Melting/freezing point | No information available |
| Boiling Point/Range | > 98 °C / > 208 °F |
| Flash Point | -8 °C / 17.6 °F |
| Method | Cleveland Open Cup (COC) |
| Evaporation rate | No information available |
| Flammability Limits in Air | |
| upper flammability limit | No information available |
| lower flammability limit | No information available |
| VOC Content Product (lb/gal) | No information available |
| Vapor pressure | No information available |
| Vapor density | No information available |
| Specific Gravity (g/cc, 15 C) | No information available |
| Density @ 25 ° C. (g/cc): | .80 |
| Water Solubility | Insoluble |
| Solubility in other solvents | No information available |
| Partition coefficient: n-octanol/water | No information available |
| Autoignition temperature | No information available |

| | |
|----------------------------------|--------------------------|
| Decomposition Temperature | No information available |
| Kinematic viscosity | No information available |
| Dynamic viscosity | No information available |
| Molecular Weight | No information available |

10. STABILITY AND REACTIVITY

| | |
|--|--|
| Stability: | Stable under recommended storage conditions. |
| Conditions to avoid: | None known. |
| Materials to avoid: | Strong oxidizing agents. |
| Hazardous decomposition products: | None under normal use. |
| Hazardous Polymerization: | Not applicable. |

11. TOXICOLOGICAL INFORMATION

No toxicological information is available on the product. Data obtained on components are summarized below.

Information on likely routes of exposure

| | |
|---------------------|---|
| Inhalation | May cause irritation of respiratory tract. May cause drowsiness and dizziness. |
| Eye Contact | Contact with eyes may cause irritation. |
| Skin Contact | Irritating to skin. May cause sensitization by skin contact. |
| Ingestion | Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. |

| Components | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|-------------------------------------|--|--|--|
| 2,2,4 -TRIMETHYLPENTANE | > 2500 mg/kg (Rat) Oral LD50 Rat >2500 mg/kg (Source: IUCLID) | - | = 47.4 mg/L (Rat) 1 h Inhalation LC50 Rat 47.4 mg/L 1 h (Source: IUCLID) |
| NAPHTHA (PETROLEUM), LIGHT ALKYLATE | > 7000 mg/kg (Rat) Oral LD50 Rat >7000 mg/kg (Source: IUCLID) | > 2000 mg/kg (Rabbit) Dermal LD50 Rabbit >2000 mg/kg (Source: IUCLID) | > 5.04 mg/L (Rat) 4 h Inhalation LC50 Rat >5.04 mg/L 4 h (Source: IUCLID) |
| 1-Naphthalenamine, N-phenyl- | = 1625 mg/kg (Rat) Oral LD50 Rat 1625 mg/kg (Source: NLM_CIP) | - | - |

Delayed and immediate effects as well as chronic effects from short and long-term exposure

| | |
|------------------------|---|
| Carcinogenicity | The table below indicates whether each agency has listed any ingredient as a carcinogen |
|------------------------|---|

| Components | IARC Carcinogens | NTP | OSHA - Select Carcinogens |
|-------------------------------------|------------------|------------|---------------------------|
| 2,2,4 -TRIMETHYLPENTANE | Not listed | Not listed | Not listed |
| NAPHTHA (PETROLEUM), LIGHT ALKYLATE | Not listed | Not listed | Not listed |
| 1-Naphthalenamine, N-phenyl- | Not listed | Not listed | Not listed |

| | |
|--|---|
| Sensitization | Product contains a component that is classified as a skin sensitizer. No studies have been conducted on the product itself. |
| Mutagenic effects: | No information available. |
| Reproductive Toxicity | No information available. |
| Developmental Toxicity | No information available. |
| Teratogenic | No information available. |
| Specific target organ systemic toxicity (single exposure) | No information available. |
| Specific target organ systemic toxicity (repeated exposure) | No information available. |
| Aspiration hazard | May be fatal if swallowed and enters airways. Risk of serious damage to the lungs (by aspiration). |

Additional information on toxicological effects

No information available

12. ECOLOGICAL INFORMATION

| Components | Ecotoxicity - Fish Species Data: | Ecotoxicity - Freshwater Algae Data: | Ecotoxicity - Water Flea Data: |
|-------------------------------------|---|--|--|
| 2,2,4 -TRIMETHYLPENTANE | No data | No data | No data |
| NAPHTHA (PETROLEUM), LIGHT ALKYLATE | No data | =2mg/L = 30000 mg/L EC50 | No data |
| 1-Naphthalenamine, N-phenyl- | LC50 (Oncorhynchus mykiss - 96) = 0.74 mg/l LC50 (Lepomis macrochirus - 96h) = 0.82 mg/l | EC50 (Scenedesmus subspicatus - 72h) = 0.25 mg/l | EC50 (Daphnia magna - 48h) = 0.68 mg/l |

1.5% of the mixture consists of component(s) of unknown hazards to the aquatic environment

Persistence and Degradability No information available.

Bioaccumulation No information available.

| Components | Octanol/water partition coefficient |
|-------------------------------------|-------------------------------------|
| 2,2,4 -TRIMETHYLPENTANE | - |
| NAPHTHA (PETROLEUM), LIGHT ALKYLATE | - |

| | |
|------------------------------|---|
| 1-Naphthalenamine, N-phenyl- | - |
|------------------------------|---|

Mobility: No data available

Ozone: No data available

13. DISPOSAL CONSIDERATIONS

Waste from residues/unused products: Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority.

Contaminated packaging: Do not re-use empty containers

Methods for cleaning up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust) Sweep up and shovel into suitable containers for disposal

14. TRANSPORT INFORMATION

U. S. DEPARTMENT OF TRANSPORTATION:

UN/NA ID Number: UN1993
Proper shipping name: FLAMMABLE LIQUIDS, N.O..S. (CONTAINS PETROLEUM NAPHTHA, LIGHT ALKYLATE)
Hazard class: 3
PG: II
DOT ERG: 128

TDG (CANADA):

UN nr: UN1993
Proper shipping name: FLAMMABLE LIQUIDS, N.O..S. (CONTAINS PETROLEUM NAPHTHA, LIGHT ALKYLATE)
TDG Hazard Classification: 8
Packing group: II

IMDG/IMO:

UN nr: UN1993
Proper shipping name: FLAMMABLE LIQUIDS, N.O..S. (CONTAINS PETROLEUM NAPHTHA, LIGHT ALKYLATE)
Packing group: II
EMS: F-E, S-E
Limited quantity: 1 L

IATA/ICAO:

UN nr: UN1993
Proper shipping name: FLAMMABLE LIQUIDS, N.O..S. (CONTAINS PETROLEUM NAPHTHA, LIGHT ALKYLATE)
Hazard Class: 8
Packing group: II
Maximum quantity for cargo only: 60 L
Maximum quantity for passenger: 5 L
Limited quantity: 1 L

15. REGULATORY INFORMATION

Federal Regulations

OSHA Hazard Communication Standard: This product is considered to be hazardous under the OSHA Hazard Communication Standard.

CERCLA/SARA Information:

SARA (311, 312) hazard class: This product possesses the following SARA Hazard Categories:

Immediate Health (Acute): Yes
Delayed Health (Chronic): No
Flammability: Yes
Pressure: No
Reactivity: No

| Components | Hazardous Substances and RQs | Extremely Hazardous Substances and TPQs | SARA 313 Emission Reporting |
|-------------------------------------|------------------------------|---|-----------------------------|
| 2,2,4 -TRIMETHYLPENTANE | 1000 lb | Not listed | Not listed |
| NAPHTHA (PETROLEUM), LIGHT ALKYLATE | Not listed | Not listed | Not listed |
| 1-Naphthalenamine, N-phenyl- | Not listed | Not listed | Not listed |

Clean Air and Clean Water Acts:

| Components | Hazardous Air Pollutants | CWA - Hazardous Substances | CWA - Toxic Pollutants | CWA - Priority Pollutants |
|-------------------------------------|--------------------------|----------------------------|------------------------|---------------------------|
| 2,2,4 -TRIMETHYLPENTANE | Listed | Not listed | Not listed | Not listed |
| NAPHTHA (PETROLEUM), LIGHT ALKYLATE | Not listed | Not listed | Not listed | Not listed |
| 1-Naphthalenamine, N-phenyl- | Not listed | Not listed | Not listed | Not listed |

U.S. STATE REGULATIONS (RTK):

| Components | California Proposition 65 | PARTK | MI Critical Materials | NJRTK | MARTK |
|-------------------------------------|---------------------------|------------|-----------------------|------------|------------|
| 2,2,4 -TRIMETHYLPENTANE | Not Listed | Present | Not Listed | 1061 | Present |
| NAPHTHA (PETROLEUM), LIGHT ALKYLATE | Not Listed | Not Listed | Not Listed | Not Listed | Not Listed |
| 1-Naphthalenamine, N-phenyl- | Not Listed | Not Listed | Not Listed | Not Listed | Not Listed |

California Proposition 65 Status: May contain trace amounts of listed chemicals: NAPHTHALENE

RCRA Status: Not regulated

CANADIAN REGULATIONS:

Canada - WHMIS Classification Information:

This product has been classified according to the hazard criteria of the CPR and the SDS contains all the information required by the CPR.

Canadian Product Classification:

B2 = flammable (flash < 100F)
Class D2A
Class D2B

Product Classification Graphic(s):



Component Classification Data:

| Components | WHMIS hazard class | CEPA Schedule I | Challenge Substances |
|-------------------------------------|--------------------|-----------------|----------------------|
| 2,2,4 -TRIMETHYLPENTANE | None | Not listed | Not listed |
| NAPHTHA (PETROLEUM), LIGHT ALKYLATE | None | Not listed | Not listed |
| 1-Naphthalenamine, N-phenyl- | None | Not listed | Not listed |

INVENTORY STATUS:

United States TSCA Inventory:

This product complies with TSCA

Canada DSL/NDSL Inventory List

At least one component is not listed on the DSL or NDSL

16. OTHER INFORMATION

Sources of key data used to compile the data sheet: Material safety data sheets of the ingredients.

Prepared by:

Safety, Health and Environmental Department

Revision Date:

10/26/2015

Reason for revision:

New formulation.

Personal protection recommendations should be reviewed by purchasers. Workplace conditions are important factors in specifying adequate protection.

Disclaimer

This product's safety information is provided to assist our customers in assessing compliance with safety/health/environmental regulations. The information contained herein is based on data available to us and is believed to be accurate. However, no warranty of merchantability, fitness for any use, or any other warranty is expressed or implied regarding the accuracy of this data, the results to be obtained from the use thereof, or the hazards connected with the use of the product. Since the use of this product is within the exclusive control of the user, it is the user's obligation to determine the conditions for safe use of the product. Such conditions should comply with all regulations concerning the product. The company referenced in this Safety Data Sheet assumes no liability for any injury or damage, direct or consequential, resulting from the use of this product unless such injury or damage is attributable to the gross negligence of such company.

End of Safety Data Sheet