

Lube 2000

SAFETY DATA SHEET

Preparation Date: 28-Jul-2008

Revision Date: 25-Jul-2018

Revision Number: 4

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Identifier

Product Name Lube 2000

Other means of identification

Item#: 1848

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use Conveyor Lubricant, Restricted to professional users

Uses advised against All other

Details of the supplier of the safety data sheet

Supplier DeLaval Cleaning Solutions
11100 N. Congress Ave.
Kansas City, MO 64153
Tel: 816-891-7700, 8am – 5pm M-F

Emergency Telephone Number

Chemtrec 1-800-424-9300

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
Serious eye damage/eye irritation	Category 1
Carcinogenicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 2
Flammable liquids	Category 4

Label Elements

Emergency Overview

DANGER

Hazard Statements

Causes skin irritation
Causes serious eye damage
Suspected of causing cancer
May cause damage to organs through prolonged or repeated exposure
Combustible liquid

**Appearance** Amber**Physical state** Liquid**Odor** No information available**Precautionary Statements - Prevention**

Obtain special instructions before use
 Do not handle until all safety precautions have been read and understood
 Use personal protective equipment as required
 Wash face, hands and any exposed skin thoroughly after handling
 Do not breathe dust/fume/gas/mist/vapors/spray
 Keep away from heat/sparks/open flames/hot surfaces. — No smoking

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

In case of fire: Use CO₂, dry chemical, or foam for extinction.

Precautionary Statements - Storage

Store locked up
 Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight %
Coconut diethanolamide	68603-42-9	1 - 10
Diethanolamine	111-42-2	1 - 10
Tetrasodium EDTA	64-02-8	1 - 10
Hexylene glycol	107-41-5	1 - 10
Isopropyl alcohol	67-63-0	1 - 10
Potassium hydroxide	1310-58-3	1 - 10

If a concentration range is shown, the exact concentration has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first-aid measures

Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Call a physician immediately.
Skin contact	Wash off immediately with plenty of water. If skin irritation persists, call a physician.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.
Ingestion	Do not induce vomiting. Drink 1 or 2 glasses of water. Call a physician or Poison Control

Center immediately. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

According to our experience and to the information provided to us, the product does not have any harmful effects if it is used and handled as specified.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water, Carbon dioxide (CO2), Foam.

Unsuitable Extinguishing Media

No information available.

Specific hazards arising from the chemical

No information available.

Sensitivity to static discharge None.

Protective Equipment and Precautions for Firefighters

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

NFPA **Health hazards** 1 **Flammability** 1 **Instability** 0

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Ensure adequate ventilation.

Environmental Precautions

Prevent further leakage or spillage if safe to do so.

Methods and material for containment and cleaning up

Soak up with inert absorbent material. Take precautionary measures against static discharges.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Handling Ensure adequate ventilation.

Conditions for safe storage, including any incompatibilities

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

Incompatible Materials strong oxidizing agents, strong acids, strong bases

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Only constituents with exposure limits are listed. Any constituent not listed has no known exposure limit.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Diethanolamine	TWA: 1 mg/m ³	TWA: 3 ppm	-

111-42-2	Skin	TWA: 15 mg/m ³	
Hexylene glycol 107-41-5	TWA: 25 ppm STEL: 50 ppm STEL: 10 mg/m ³	Ceiling: 25 ppm Ceiling: 125 mg/m ³	-
Isopropyl alcohol 67-63-0	TWA: 200 ppm STEL: 400 ppm	TWA: 400 ppm TWA: 980 mg/m ³ STEL: 500 ppm STEL: 1225 mg/m ³	2000 ppm
Potassium hydroxide 1310-58-3	Ceiling: 2 mg/m ³	Ceiling: 2 mg/m ³	-

Appropriate engineering controls

Engineering Controls Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

- Eye/face Protection** Goggles.
- Skin and body protection** Wear protective gloves and protective clothing.
- Respiratory Protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid	Odor	No information available
Appearance	Amber	Odor Threshold	No information available
Property	Values	Remarks/ Method	
pH	9		
Melting point/freezing point	No information available		
Boiling Point/Range	No information available		
Flash Point	63 °C / 145 °F		
Evaporation rate	No information available		
Flammability (solid, gas)	No information available		
Flammability Limit in Air			
Upper flammability limit	No information available		
Lower flammability limit	No information available		
Vapor Pressure	No information available		
Vapor Density	No information available		
Specific Gravity	1.04		
Water Solubility	soluble		
Partition coefficient: n-octanol/water	No information available		
Autoignition Temperature	No information available		
Decomposition temperature	No information available		
Viscosity of Product	No information available		
Dynamic viscosity	No information available		

Other information

Density 8.7 lb/gal

10. STABILITY AND REACTIVITY

Reactivity

May react with other chemicals. Do not mix with other chemicals except as directed on label.

Chemical Stability

Stable under normal conditions.

Possibility of hazardous reactions

None known.

Conditions to Avoid

Heat, flames and sparks.

Incompatible Materials

strong oxidizing agents, strong acids, strong bases

Hazardous decomposition products

None known.

11. TOXICOLOGICAL INFORMATION

Principal Routes of Exposure Eye contact, Skin contact, Ingestion

Information on likely routes of exposure

Eyes Irritating to eyes.
Skin May cause skin irritation.
Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

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

Sensitization Product is not identified as a sensitizer according to OSHA regulations.
Mutagenic effects Product is not identified as a mutagen according to OSHA regulations.
Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Coconut diethanolamide 68603-42-9	Not Listed	Group 2B	Not Listed	X
Diethanolamine 111-42-2	A3	Group 2B	Not Listed	X
Isopropyl alcohol 67-63-0	Not Listed	Group 3	Not Listed	Not Listed

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Confirmed animal carcinogen with unknown relevance to humans

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

Group 3 - Not classifiable

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive Effects Product is not identified as having reproductive effects according to OSHA regulations.
STOT - single exposure Product is not identified as having single target organ toxicity (single exposure) according to OSHA regulations.
STOT - repeated exposure Product is not identified as having single target organ toxicity (repeated exposure) according to OSHA regulations.
Aspiration Hazard Product is not identified as an aspiration hazard according to OSHA regulations.

Numerical measures of toxicity

If available, toxicity values of individual components are shown below.

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Coconut diethanolamide 68603-42-9	= 12400 µL/kg (Rat) > 5000 mg/kg (Rat)	> 2 g/kg (Rabbit)	No data available

Diethanolamine 111-42-2	= 620 µL/kg (Rat) = 780 mg/kg (Rat)	= 7640 µL/kg (Rabbit)	No data available
Tetrasodium EDTA 64-02-8	= 10 g/kg (Rat) = 1658 mg/kg (Rat)	No data available	No data available
Hexylene glycol 107-41-5	= 3700 mg/kg (Rat)	= 8560 µL/kg (Rabbit)	> 310 mg/m ³ (Rat) 1 h
Isopropyl alcohol 67-63-0	= 1870 mg/kg (Rat)	= 4059 mg/kg (Rabbit)	72.6 mg/L (Rat) 4 h
Potassium hydroxide 1310-58-3	= 284 mg/kg (Rat)	No data available	No data available

0% of the mixture consists of ingredient(s) of unknown toxicity

12. ECOLOGICAL INFORMATION

Ecotoxicity

If available, ecotoxicity values of individual components are shown below.

Chemical name	Algae/aquatic plants	Fish	Microtox	Waterflea
Coconut diethanolamide 68603-42-9	No data available	3.6: 96 h Brachydanio rerio mg/L LC50 semi-static	No data available	4.2: 24 h Daphnia magna mg/L EC50
Diethanolamine 111-42-2	7.8: 72 h Desmodemus subspicatus mg/L EC50 2.1 - 2.3: 96 h Pseudokirchneriella subcapitata mg/L EC50	4460 - 4980: 96 h Pimephales promelas mg/L LC50 flow-through 1200 - 1580: 96 h Pimephales promelas mg/L LC50 static 600 - 1000: 96 h Lepomis macrochirus mg/L LC50 static	EC50 = 73 mg/L 5 min EC50 > 16 mg/L 16 h EC50 > 16 mg/L 16 h	55: 48 h Daphnia magna mg/L EC50
Tetrasodium EDTA 64-02-8	1.01: 72 h Desmodemus subspicatus mg/L EC50	59.8: 96 h Pimephales promelas mg/L LC50 static 41: 96 h Lepomis macrochirus mg/L LC50 static	No data available	610: 24 h Daphnia magna mg/L EC50
Hexylene glycol 107-41-5	No data available	10500 - 11000: 96 h Pimephales promelas mg/L LC50 flow-through 8690: 96 h Pimephales promelas mg/L LC50 flow-through 10700: 96 h Pimephales promelas mg/L LC50 static 10000: 96 h Lepomis macrochirus mg/L LC50 static	EC50 = 3038 mg/L 5 min	2700 - 3700: 48 h Daphnia magna mg/L EC50
Isopropyl alcohol 67-63-0	1000: 72 h Desmodemus subspicatus mg/L EC50 1000: 96 h Desmodemus subspicatus mg/L EC50	9640: 96 h Pimephales promelas mg/L LC50 flow-through 1400000: 96 h Lepomis macrochirus µg/L LC50 11130: 96 h Pimephales promelas mg/L LC50 static	EC50 = 35390 mg/L 5 min	13299: 48 h Daphnia magna mg/L EC50
Potassium hydroxide 1310-58-3	No data available	80: 96 h Gambusia affinis mg/L LC50 static	No data available	No data available

Persistence and degradability

No information available.

Bioaccumulation/Accumulation

No information available.

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste Disposal Method Dispose of in accordance with local regulations. Should not be released into the environment.

Contaminated Packaging Empty containers should be taken for local recycling, recovery or waste disposal.

14. TRANSPORT INFORMATION

DOT Not regulated

15. REGULATORY INFORMATION

California Proposition 65 WARNING: This product can expose you to chemicals including Coconut oil diethanolamide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

State Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Diethanolamine 111-42-2	X	X	X
Hexylene glycol 107-41-5	X	X	X
Isopropyl alcohol 67-63-0	X	X	X
Potassium hydroxide 1310-58-3	X	X	X

U.S. EPA Label information

EPA Pesticide registration number Not applicable

16. OTHER INFORMATION

Preparation Date: 28-Jul-2008

Revision Date: 25-Jul-2018

Revision Note: None

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of SDS