

SDS Number: 901271

1 PRODUCT AND COMPANY INFORMATION

Product Name: EDT 40
Revision Date: 01/27/2016
SDS Number: 901271
Common Name: Inhibited Ethylene Glycol coolant
CAS Number: Blend
Product Code: 901271
Synonyms: Ethylene Glycol, 40%

Company Identification:

Manufactured for:
LYDEN OIL COMPANY
3711 LeHarps Drive
Youngstown, OH 44515

For Product Information: 1-330-792-1100
For Emergencies: 1-800-424-9300
CHEMTREC: 1-800-424-9300 or 1-703-527-3887

2 HAZARDS IDENTIFICATIONSignal Word:**WARNING**Hazard Classes/Categories:

Acute toxicity, Oral category 4.
Specific target organ toxicity – repeated exposure, Category 2.



Safety Data Sheet

Lyden Oil Company

Page 2 of 9

EDT 40

SDS Number: 901271

Hazard Statement(s):

H302: Harmful if swallowed.
H373: May cause damage to organs through prolonged or repeated exposure.

Precaution Statement(s):

P101: If medical advice is needed, have product container or label at hand.
P102: Keep out of reach of children.
P103: Read label before use.
P260: Do not breathe dust/fumes/gas/mist/vapors/spray.
P264: Wash skin thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P301+312: IF SWALLOWED: Call a POISON CENTER/doctor/if you feel unwell.
P330: Rinse mouth.
P314: Get Medical advice/attention if you feel unwell.
P501: Dispose of contents/container in accordance with local/regional/national/international regulation.

Other Hazard Statement(s):

-NFPA Ratings:
Health = 1
Fire = 1
Reactivity = 0

3

COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients:

Mixture of the substances listed below with nonhazardous additions.

Chemical Name	CAS Number	Percentage
1,2-Ethanediol	107-21-1	35-45
Diethylene glycol	111-46-6	0-5
Water	7732-18-5	<70
Proprietary Inhibitor	N/A	<3

**Any concentration shown as a range is to protect confidentiality or is due to batch variation.*

SDS Number: 901271

4 FIRST AID MEASURESDescription of First Aid Measures:

Inhalation:

If overcome by exposure, remove victim to fresh air immediately. If breathing is difficult, give oxygen. Obtain medical attention if breathing difficulty persists.

Skin Contact:

Remove contaminated clothing and wash skin with plenty of soap and water. Flush with lukewarm water for 15 minutes. If sticky, use waterless cleaner first. Seek medical attention if ill effect or irritation develops.

Eye Contact:

Thoroughly flush the eyes with large amounts of clean low-pressure water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation persists, seek medical attention.

Ingestion:

DO NOT induce vomiting. If vomiting does occur, have victim lean forward to reduce risk of aspiration. Obtain emergency room treatment immediately.

Symptoms and Effects, both acute and delayed:

Principal effects produced by Ethylene Glycols, especially by acute overexposure from swallowing the liquid, are kidney injury and metabolic acidosis. Treatment of metabolic acidosis, administration of ethanol, and hemodialysis may be indicated. Hemodialysis may be indicated for more complete elimination.

Recommended Actions:

Treat symptomatically. Call a doctor or poison control center for guidance.

SDS Number: 901271

5 FIRE FIGHTING MEASURESRecommended Fire-Extinguishing Equipment:

SMALL FIRE: Use dry chemicals, CO₂, water spray or alcohol-resistant foam. LARGE FIRE: Use water spray, water fog or alcohol-resistant foam.

Possible Hazards During a Fire:

Hazardous combustion products may include carbon oxides.

Recommendations to Firefighters:

Wear an approved positive pressure self-contained breathing apparatus and firefighter turnout gear. Structural firefighters protective clothing will only provide limited protection.

6 ACCIDENTAL RELEASE MEASURESPersonal Precautions:

Avoid eye contact. Avoid repeated or prolonged skin contact.
Personal protective equipment must be worn.
Avoid contact with skin, eyes or clothing. Keep unprotected persons away.

Emergency Procedures:

Eliminate all sources of ignition. All equipment used when handling this product must be grounded. Do not touch or walk through spilled material. Stop leak if you can do it without risk. Report spills or leaks to the proper regulatory authorities.



Safety Data Sheet

Lyden Oil Company

Page 5 of 9

EDT 40

SDS Number: 901271

Environmental Precautions:

Do not allow to reach sewage system or any water course.
Do not allow to enter ground waters.

Cleanup Procedures:

Pick up excess with inert absorbant material. Treat contaminated absorbent same as spilled product. Ventillate area of spill.

7 HANDLING AND STORAGE

Handling Precautions:

Handle with care and avoid spillage on the floor. Do not cut, weld, drill, grind, braze, or solder container.

Storage Requirements:

Store containers in a cool, dry, ventilated, fire resistant area away from sources of ignition and incompatible materials. Ground all equipment containing this material. Keep container tightly closed and properly labeled.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

-1,2-Ethanediol:

US (ACGIH):100 mg/m³ (CEILING)

-Ethylene Glycol:

ACGIH TWA: 10 mg/m³

Engineering Controls:

All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94).

SDS Number: 901271

Personal Protective Equipment:

Wash hands before breaks and at the end of work.

Use safety glasses and gloves.

9 PHYSICAL AND CHEMICAL PROPERTIES

Color:	Green
Physical State:	Liquid
Odor:	Slightly Sweet
Odor Threshold:	Data not available
pH:	Data not available
Melting Point:	-13°C / 8.6°F
Boiling Point:	197°C / 387°F
Boiling Range:	Data not available
Flash Point:	116°C / 240°F
Evaporation Rate:	Data not available
Flammability:	OSHA/NFPA Class IIIA Combustible Liquid
Flammability Limits:	Lower Flammable Limit: 3.2 vol% Upper Flammable Limit: 15.3 vol%
Vapor Pressure:	0.05 mmHg at 20° C
Vapor Density:	2.14 (Air = 1)
Relative Density:	1.1135 (where water = 1)
Solubilities:	Completely soluble in water
Partition Coefficient:	Log Kow = -1.36
Auto-Ignition Temperature:	Data not available
Decomposition Temperature:	Data not available
Viscosity:	Data not available

10 STABILITY AND REACTIVITYStability:

Stable under normal conditions.

Reactivity:

Not reactive under normal conditions.

Conditions to Avoid:

Elevated temperatures, sparks, open flame, and direct sunlight.

SDS Number: 901271

Hazardous Reactions:

No known hazardous reactions.

Incompatible Materials:

Strong oxidizers, strong acids, and strong bases.

Decomposition Products:

Oxides of carbon, and hydrogen.

11 TOXICOLOGICAL INFORMATIONRoutes of Exposure:

Skin and eye contact are the primary routes of exposure although exposure may occur following accidental ingestion.

Exposure Effects:

Monoethylene glycol (ethylene glycol) has low acute toxicity in experimental animals following oral, inhalation, or dermal exposure. Accidental or intentional acute ingestions in humans, however, have caused poisoning and death. High aerosol concentrations may cause respiratory irritation. Ethylene glycol is not rapidly absorbed through skin. Repeated oral exposures of high doses may result in deposition of calcium oxalate crystals in the kidney resulting in kidney failure; however, human exposures at occupationally relevant concentrations are unlikely to cause this effect.

Measures of Toxicity:

- 1,2-Ethenediol 107-21-1:

Acute Toxicity - Lethal Doses

LD50 (Oral) Rat 5890 - 13,400 MG/KG BWT

SDS Number: 901271

- Diethylene glycol 111-46-6:

Acute Toxicity - Lethal Doses

LD50 (Oral) Rat 12,600 MG/KG BWT

Mouse 23,700 MG/KG BWT

LD50 (Skin) Rabbit 11,900 MG/KG

Carcinogenic/Mutagenic Precautions:

Non-carcinogenic and not expected to be mutagenic.

12 ECOLOGICAL INFORMATIONEcological Precautions:

Avoid exposing to the environment.

Ecological Effects:

- 1,2-Ethanediol 107-21-1:

LC50 / 96 HOUR rainbow trout. 22,810 mg/l

LC50 / 96 HOUR fathead minnow 49,000 mg/l

Summary: This material is not classified as harmful or toxic to fish.

Acute toxicity to aquatic invertebrates

EC50 / 48 HOUR Daphnia magna. 41,000 mg/l

EC50 / 48 HOUR daphnia 10,000 mg/l

13 DISPOSAL CONSIDERATIONSDisposal Methods:

Dispose of all waste and contaminated equipment in accordance with all applicable federal, state and local health and environmental regulations. Recovery and reuse, rather than disposal, should be the ultimate goal of handling efforts. The materials resulting from clean-up operations may be hazardous wastes and therefore, subject to specific regulations. Comply with federal, state, or local regulations for disposal.



Safety Data Sheet

Lyden Oil Company

Page 9 of 9

EDT 40

SDS Number: 901271

Disposal Containers:

Use properly approved container for disposal.

Special Precautions:

Do not flush to surface waters or drains.

14 TRANSPORT INFORMATION

UN Number: UN3082
UN Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (Ethylene Glycol)
Transport Hazard Class: 9
Packing Group: III

Environmental Hazards:

Data not available

Bulk Transport Guidance:

Data not available

Special Precautions:

Non Bulk: Not regulated by the US D.O.T. (in quantities under 5,000 lbs in any one inner package).

15 REGULATORY INFORMATION

This material and all of its components are listed on the Inventory of Existing Chemical Substances under the Toxic Substances Control Act.

16 OTHER INFORMATION

Last Revision Date: 01/27/2016

The information contained in this Safety Data Sheet (SDS) relates only to the specific material designated. LYDEN OIL COMPANY assumes no legal responsibility of the use or reliance upon this data. This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of the LYDEN OIL COMPANY.