



MATERIAL SAFETY DATA SHEET

DIETHYL OXALATE

SECTION 1- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name:
Diethyl oxalate, 99%^s

Catalog Numbers: 15918-0000, 15918-0010, 15918-0025, 15918-0250, 15918-5000

Synonyms:
Un Listed

Company Information:
LEONID CHEMICALS
62/A-2 1st Stage, Yeshwanthpur Industrial Suburb
Ashokpuram School Road
Bangalore-560 022, Karnataka, INDIA
Ph: +91-80-2337 8354, Fax: +91-80-2357 4827

SECTION 2- COMPOSITION, INFORMATION ON INGREDIENTS

CAS #	:	95-92-1
Chemical Name	:	Diethyl oxalate
%	:	99 %
EINECS#	:	202-464-1
Hazard Symbols	:	XN.
Risk Phrases	:	22 36

SECTION 3- HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Harmful if swallowed. Irritating to eyes. Moisture sensitive.

Potential Health Effects

Eye:

Causes eye irritation.

Skin:

May cause skin irritation. May be harmful if absorbed through the skin.

Ingestion:

Harmful if swallowed. May cause irritation of the digestive tract.

Inhalation:

May cause respiratory tract irritation. May be harmful if inhaled.

Chronic:

Not available.

SECTION 4- FIRST AID MEASURES

Eyes:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin:

Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion:

Get medical aid. Wash mouth out with water.

Inhalation:

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:

Un Listed

SECTION 5- FIRE FIGHTING MEASURES

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Will burn if involved in a fire. Combustible liquid.

Extinguishing Media:

In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam

SECTION 6- ACCIDENTAL RELEASE MEASURES

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container.

SECTION 7 - HANDLING and STORAGE

Handling:

Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.

Storage:

Keep away from sources of ignition. Store in a cool, dry place. Store in a tightly closed container.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls:

Use adequate ventilation to keep airborne concentrations low.

Personal Protective Equipment :

Eyes:

Wear safety glasses and chemical goggles if splashing is possible.

Skin:

Wear appropriate protective gloves and clothing to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to minimize contact with skin.

Respirators:

Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State	:	Clear liquid
Color	:	APHA: 15 max
Odor	:	Not available.
pH	:	Not available.
Vapor Pressure	:	1.33 mbar @ 20
Viscosity	:	Not available.
Boiling Point	:	185 deg C @ 760.00mm Hg
Freezing/Melting Point	:	-41 deg C
Autoignition Temperature	:	Not available.
Flash Point	:	76 deg C (168.80 deg F)
Explosion Limits, lower	:	.80 vol %
Explosion Limits, upper	:	.00 vol %
Decomposition Temperature	:	Un Listed
Solubility in water	:	May decompose.
Specific Gravity/Density	:	1.0800
Molecular Formula	:	C ₂ H ₅ O ₂ CCO ₂ C ₂ H ₅
Molecular Weight	:	146.14

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Incompatible materials, exposure to moist air or water.

Incompatibilities with Other Materials:

Oxidizing agents, reducing agents, acids, bases.

Hazardous Decomposition Products:

Carbon monoxide, carbon dioxide.

Polymerization:

Has not been reported.

SECTION 11 - TOXICOLOGICAL INFORMATION

RTECS#:

CAS# 95-92-1: Ro2800000

LD50/LC50:

CAS# 95-92-1: Oral, mouse: LD50 = 2 gm/kg.

Carcinogenicity:

Diethyl oxalate -

Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

See actual entry in RTECS for complete information.

SECTION 12 - ECOLOGICAL INFORMATION

No information available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

SECTION 14 - TRANSPORT INFORMATION

IATA

Shipping Name : ETHYL OXALATE
Hazard Class : 6.1
UN Number : 2525
Packing Group : III

IMO

Shipping Name : ETHYL OXALATE
Hazard Class : 6.1
UN Number : 2525
Packing Group : III

RID/ADR

Shipping Name : ETHYL OXALATE
Hazard Class : 6.1
UN Number : 2525
Packing Group : III

SECTION 15 - REGULATORY INFORMATION

European/International Regulations
European Labeling in Accordance with EC Directives

Hazard Symbols:
XN

Risk Phrases:
R 22 Harmful if swallowed.
R 36 Irritating to eyes.

Safety Phrases:
S 23 Do not inhale gas/fumes/vapour/spray.

WGK (Water Danger/Protection)
CAS# 95-92-1: 1

United Kingdom Occupational Exposure Limits

United Kingdom Maximum Exposure Limits

Canada
CAS# 95-92-1 is listed on Canada's DSL List.
CAS# 95-92-1 is listed on Canada's Ingredient Disclosure List.

Exposure Limits :
US FEDERAL

TSCA:
CAS# 95-92-1 is listed on the TSCA inventory.

SECTION 16 - ADDITIONAL INFORMATION

The information above is believed to be accurate and represents the best information

currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.

