



DIISOPROPANOLAMINE, 99% (TITR.)

**** SECTION 1 - CHEMICAL PRODUCT ****

MSDS Name: DIISOPROPANOLAMINE, 99% (TITR.)

Catalog Numbers:

40780-0000, 40780-0050, 40780-5000

Synonyms:

1,1'-Iminodi-2-propanol

**** SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS ****

CAS#	Chemical Name	%	EINECS#	Haz Symbols	Risk Phrases
110-97-4	DIISOPROPANOLAMINE, 99% (TITR.)	99%	203-820-9		

Hazard Symbols: XI

Risk Phrases: 36

**** SECTION 3 - HAZARDS IDENTIFICATION ****

EMERGENCY OVERVIEW

Irritating to eyes. Hygroscopic (absorbs moisture from the air).

Potential Health Effects

Eye:

Causes eye irritation. Causes redness and pain.

Skin:

Causes mild skin irritation. Causes redness and pain.

Ingestion:

Expected to be a low ingestion hazard. May cause nausea and vomiting.

Inhalation:

May cause respiratory tract irritation. Inhalation may be fatal as a result of spasm, inflammation, edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema.

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:

****** 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.

Extinguishing Media:

Use water spray, dry chemical, carbon dioxide, or chemical foam.

****** SECTION 6 - ACCIDENTAL RELEASE MEASURES ******

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Vacuum or sweep up material and place into a suitable disposal container.

****** SECTION 7 - HANDLING and STORAGE ******

Handling:

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

Storage:

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 appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

****** SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES ******

Physical State: Clear liquid
Color: after melting, clear colorless
Odor: Not available.
pH: Not available.
Vapor Pressure: 0.02 hPa @20 deg C
Viscosity: Not available.
Boiling Point: 249 - 250 deg C @ 760.00mm Hg
Freezing/Melting Point: 33 deg C
Autoignition Temperature: 370 deg C (698.00 deg F)
Flash Point: 126 deg C (258.80 deg F)
Explosion Limits, lower: 1.10 vol %
Explosion Limits, upper: 5.40 vol %
Decomposition Temperature:

Solubility in water: 870 G/L (20°C)
Specific Gravity/Density: 1.0038g/cm³
Molecular Formula: C₆H₁₅NO₂
Molecular Weight: 133.19

****** 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:

Strong oxidizing agents, strong acids.

Hazardous Decomposition Products:

Nitrogen oxides, carbon monoxide, carbon dioxide.

Hazardous Polymerization: Will not occur.

****** SECTION 11 - TOXICOLOGICAL INFORMATION ******

RTECS#:

CAS# 110-97-4: UB6600000

LD50/LC50:

CAS# 110-97-4: Draize test, rabbit, eye: 50 mg Severe; Oral, rat:

LD50 = 4765 mg/kg.

Skin, rabbit: 500 mg open mild

Carcinogenicity:

DIISOPROPANOLAMINE, 99% (TITR.) -

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

See actual entry in RTECS for complete information.

****** SECTION 12 - ECOLOGICAL INFORMATION ******

Ecotoxicity:

See Dictionary of Substances and Their Effects 1992.

****** SECTION 13 - DISPOSAL CONSIDERATIONS ******

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

****** SECTION 14 - TRANSPORT INFORMATION ******

IATA

No information available.

IMO

No information available.

RID/ADR

No information available.

**** SECTION 15 - REGULATORY INFORMATION ****

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XI

Risk Phrases:

R 36 Irritating to eyes.

Safety Phrases:

S 26 In case of contact with eyes, rinse immediately
with plenty of water and seek medical advice.

WGK (Water Danger/Protection)

CAS# 110-97-4: 1

United Kingdom Occupational Exposure Limits

United Kingdom Maximum Exposure Limits

Canada

CAS# 110-97-4 is listed on Canada's DSL List.

CAS# 110-97-4 is listed on Canada's Ingredient Disclosure List.

Exposure Limits

CAS# 110-97-4: OEL-RUSSIA:STEL 1 mg/m³;Skin

US FEDERAL

TSCA

CAS# 110-97-4 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.

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