



Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : N,N-Diethylhydroxylamine
CAS-No. : 3710-84-7
Synonym: Diethyl Hydroxylamine; N,N-Diethyl Hydroxyl Amine;
Diethylhydroxylamine; Diethyl Hydroxyl Amine
Company : Jiaxing Kingvolt Import & Export Co.,Ltd
Address: 2002, A Building, Yaocheng Plaza, No.1520, East Zhongshan RD
Jiaxing City, Zhejiang Province, 314000 China,.
Telephone : +86-573-82118911
Fax : +86-573-8118912
Emergency Phone # : +86-15157335533
E-mail: sales@kingvolt.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : C₄H₁₁NO

CAS-No.	EC-No.	Index-No.	Concentration
N,N-Diethylhydroxylamine 3710-84-7	223-055-4		>85%

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Flammable. Harmful by inhalation and in contact with skin. Irritating to eyes, respiratory system and skin.
Limited evidence of a carcinogenic effect. Hygroscopic (absorbs moisture from the air).

Potential Health Effects

Eye:

Causes eye irritation.

Skin:

Causes skin irritation. Harmful if absorbed through the skin.

Ingestion:

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

Inhalation:

Harmful if inhaled. Causes respiratory tract irritation.

Chronic:

Not available.

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:

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. Vapors can travel to a source of ignition and flash back. Will burn if involved in a fire. Vapors mixed with air can explode when ignited. Flammable liquid and vapor.

Extinguishing Media:

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

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. Remove all sources of ignition. Use a spark-proof tool.

7. HANDLING AND STORAGE

Handling:

Use spark-proof tools and explosion proof equipment. Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes. Use only in a chemical fume hood.

Storage:

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Personal Protective Equipment

Eyes:

Wear chemical goggles.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Clear liquid
Color:	Not available.
Odor:	amine-like
PH:	Not available.
Vapor Pressure:	4 mm Hg @ 20°C
Viscosity:	Not available.
Boiling Point:	125 - 130°C
Freezing/Melting Point:	-26 - 25°C
Autoignition Temperature:	Not available.
Flash Point:	45°C (113.00°F)
Explosion Limits, lower:	1.9 vol %
Explosion Limits, upper:	10 vol %
Decomposition Temperature:	>120°C
Solubility in water:	Soluble.
Specific Gravity/Density:	0.8670
Molecular Formula:	C ₄ H ₁₁ NO
Molecular Weight:	89.14

10. STABILITY AND REACTIVITY

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Incompatible materials, ignition sources, temperatures above 50°C (122°F), exposure to moist air or water.

Incompatibilities with Other Materials:

Strong oxidizing agents, strong acids, aluminum, copper, rubber, zinc.

Hazardous Decomposition Products:

Nitrogen oxides, carbon monoxide, carbon dioxide.

Hazardous Polymerization:

Will not occur.

11. TOXICOLOGICAL INFORMATION

RTECS#:

CAS# 3710-84-7: NC3500000

LD50/LC50:

CAS# 3710-84-7: Dermal, guinea pig: LD50 = 100 uL/kg.

Oral, rat: LD50 = 2190 mg/kg

Skin, rabbit: LD50 = 1300 mg/kg

Inhalation, rat: LC50 = 3140 ppm/4h

Carcinogenicity:

N,N-Diethylhydroxylamine -

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

See actual entry in RTECS for complete information.

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Fish: Pseudomonas putida: LC50: 150 mg/l; 96h; .Daphnia: Daphnia:

EC50: 110,6 mg/l; 48h; .Bacteria: Pseudomonas putida: EC50: 37 mg/l; 16h; .Log Pow: -1.5

Other

Not readily biodegradable.

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION**IATA**

Shipping Name: FLAMMABLE LIQUID, N.O.S.*

Hazard Class: 3

UN Number: 1993

Packing Group: III

IMO

Shipping Name: FLAMMABLE LIQUID, N.O.S.

Hazard Class: 3

UN Number: 1993

Packing Group: III

RID/ADR

Shipping Name: FLAMMABLE LIQUID, N.O.S.

Hazard Class: 3

UN Number: 1993

Packing group: III

15. REGULATORY INFORMATION

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XN

Risk Phrases:

R 10 Flammable.

R 20/21 Harmful by inhalation and in contact with skin.

R 36/37/38 Irritating to eyes, respiratory system and skin.

R 40 Limited evidence of a carcinogenic effect.

Safety Phrases:

S 16 Keep away from sources of ignition - No smoking.

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

S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

CAS# 3710-84-7: 1

United Kingdom Occupational Exposure Limits

United Kingdom Maximum Exposure Limits

Canada

CAS# 3710-84-7 is listed on Canada's DSL List.

CAS# 3710-84-7 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

US FEDERAL

TSCA

CAS# 3710-84-7 is listed on the TSCA inventory.

16. OTHER INFORMATION

Further information

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