



# 杭州大阳化工有限公司

Hangzhou Dayangchem Co., Ltd.

## Safety Data Sheet

No :M-11233

### Section 1 - Product and Company Identification

**MSDS Name:** 2-Diisopropylaminoethanol

**Synonyms:** N,N-Diisopropylethanolamine

**Company Identification:** Hangzhou Dayangchem Co., Ltd.

**For information, call:** 86-571-88938639

**For information,E-mail:** infores@chinadayangchem.com

**Emergency Number:** 86-571-88938639

**For CHEMTREC assistance, call:** 86-571-88938639; FAX:86-571-88938652

### Section 2 – Hazards Identification

#### Classification of the substance or mixture

According to Regulation (EC) No1272/2008

Acute toxicity, Inhalation (Category 3)

Acute toxicity, Dermal (Category 3)

Acute toxicity, Oral (Category 4)

Skin corrosion (Category 1B)

According to European Directive 67/548/EEC as amended.

Harmful by inhalation and if swallowed. Toxic in contact with skin. Causes burns.

#### Label elements

Pictogram



Signal word     Danger

**Hazard statement(s)**

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H331 Toxic if inhaled.

**Precautionary statement(s)**

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/ physician.

**Hazard symbol(s)**

T Toxic

**R-phrases(s)**

R20/22 Harmful by inhalation and if swallowed.

R24 Toxic in contact with skin.

R34 Causes burns.

**S-phrases(s)**

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**Other hazards**-none

**Section 3 – Composition/Information on Ingredients**

CAS#	Chemical Name	%	EINECS#	Classification
96-80-0	2-Diisopropylaminoethanol	98.5+	202-536-2	Acute Tox. 3; Acute Tox. 4; Skin Corr. 1B; H302, H311, H314, H331; T, R20/22 - R24 - R34

For the full text of the H-Statements mentioned in this Section, see Section 16.

## Section 4 - First Aid Measures

**General advice:** Consult a physician. Show this safety data sheet to the doctor in attendance.

**If inhaled:** If breathed in, move person into fresh air. If not breathing, give artificial respiration.

Consult a physician.

**In case of skin contact:** Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

**In case of eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## Section 5 - Fire Fighting Measures

**Special protective equipment for fire-fighters:** Wear self contained breathing apparatus for fire fighting if necessary.

**Extinguishing Media:** For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

## Section 6 - Accidental Release Measures

**Personal precautions:** Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

**Environmental precautions:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**Spills/Leaks:** Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

## Section 7 - Handling and Storage

**Handling:** Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

**Storage:** Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in cool place.

## Section 8 - Exposure Controls, Personal Protection

Contains no substances with occupational exposure limit values.

### Personal Protective Equipment

**Eyes:** Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin and body:** Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Hand:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.

Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory

practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

**Respirators:** Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## Section 9 - Physical and Chemical Properties

**Physical State:** clear, liquid

**Color:** colorless

**Odor:** Not available.

**pH:** Not available.

**Vapor Pressure:** <1 mm Hg ( 20 °C).

**Viscosity:** Not available.

**Boiling Point:** 187 - 192 °C - lit.

**Freezing/Melting Point:** Not available.

**Autoignition Temperature:** Not available.

**Flash Point:** 64 °C - closed cup

**Explosion Limits:Lower:** Not available.

**Explosion Limits Upper:** Not available.

**Decomposition Temperature:** Not available.

**Solubility in water:** Not available.

**Specific Gravity/Density:** 0.826 g/mL at 25 °C

**Molecular Formula:** C<sub>8</sub>H<sub>19</sub>NO

**Molecular Weight:** 145.24

## Section 10 - Stability and Reactivity

**Chemical Stability:** Stable under recommended storage conditions.

**Conditions to Avoid:** Heat, flames and sparks.

**Incompatibilities with Other Materials:** Oxidizing agents, Do not store near acids.

**Hazardous Decomposition Products:** Carbon oxides, nitrogen oxides (NO<sub>x</sub>)

## Section 11 - Toxicological Information

**RTECS#:** CAS# 96-80-0: KK5950000

**LD50/LC50:** RTECS:

LD50 Oral - rat - 860 mg/kg

LC50 Inhalation - rat - 6 h - 1,965 mg/m<sup>3</sup>

LD50 Dermal - rabbit - 394 mg/kg

**Carcinogenicity:** 2-Diisopropylaminoethanol - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

### Potential health effects

**Inhalation** Toxic if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

**Ingestion** Harmful if swallowed. Causes burns.

**Skin** Toxic if absorbed through skin. Causes skin burns.

**Eyes** Causes eye burns.

## Section 12 - Ecological Information

### Toxicity

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 201 mg/l - 96 h

## Section 13 - Disposal Considerations

**Product:** This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal

company. Contact a licensed professional waste disposal service to dispose of this material.

**Contaminated packaging:** Dispose of as unused product.

## Section 14 - Transport Information

	IMO	RID/ADR	IATA
<b>Shipping Name:</b>	CORROSIVE LIQUID, TOXIC, N.O.S. (2-Diisopropylaminoethanol)	CORROSIVE LIQUID, TOXIC, N.O.S. (2-Diisopropylaminoethanol)	Corrosive liquid, toxic, n.o.s. (2-Diisopropylaminoethanol)
<b>Hazard Class:</b>	2922	2922	2922
<b>UN Number:</b>	8 (6.1)	8 (6.1)	8 (6.1)
<b>Packing Group:</b>	II	II	II
<b>marine pollutant:</b> No			
<b>other applicable information:</b> Not available.			

## Section 15 - Regulatory Information

This safety data sheet complies with the requirements of Regulation (EC) No 1907/2006

## Section 16 - Other Information

### Text of H-code(s) and R-phrase(s) mentioned in Section 3

Acute Tox. Acute toxicity

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H331 Toxic if inhaled.

Skin Corr. Skin corrosion

T Toxic

R20/22 Harmful by inhalation and if swallowed.

R24 Toxic in contact with skin.

R34 Causes burns.

**MSDS Creation Date:** 23/09/2009

**Revision #1 Date:** 25/07/2011

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