



达阳化工（杭州）有限公司

DAYANG CHEM (HANGZHOU) CO.,LTD

Material Safety Data Sheet

No :M-12621

Section 1 - Product and Company Identification

MSDS Name: N,N' -Di-sec-butyl-p-phenylenediamine

Synonyms:

Company Identification: DAYANG CHEM (HANGZHOU) CO.,LTD

For information, call: 86-571-88938639

For information,E-mail: infores@dycnchem.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) No 1272/2008

Acute toxicity, Oral (Category 3), H301

Skin irritation (Category 2), H315

Serious eye damage (Category 1), H318

Skin sensitisation (Category 1), H317

Short-term (acute) aquatic hazard (Category 1), H400

Long-term (chronic) aquatic hazard (Category 1), H410

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

Label elements

Pictogram



Signal word Danger

Hazard statement(s)

H301 Toxic if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P273 Avoid release to the environment.

P280 Wear protective gloves/ eye protection/ face protection.

P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

Rinse mouth.

P302 + P352 IF ON SKIN: Wash with plenty of water.

P305 + P351 + P338 +P310

IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

Other hazards- This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher

Section 3 – Composition/Information on Ingredients

Formula : C₁₄H₂₄N₂

Molecular Weight : 220.35 g/mol

CAS#	Chemical Name	%	EINECS#	Classification
101-96-2	N,N'	98	202-992-2	Acute Tox. 3; Skin Irrit. 2;

	-Di-sec-butyl-p-phenylenediamine			Eye Dam. 1; Skin Sens. 1; Aquatic Acute 1; Aquatic Chronic 1; H301, H315, H318, H317, H400, H410 M-Factor - Aquatic Acute: 10
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For the full text of the H-Statements mentioned in this Section, see Section 16.

Section 4 - First Aid Measures

Eyes: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin: Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Notes to Physician: Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

Advice for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

Spills/Leaks: Soak up with inert absorbent material and dispose of as hazardous waste. 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

Storage: Store in cool place. 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.

Air sensitive.

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: 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 Regulation (EU)2016/425 and the standard EN 374 derived from it.

Clothing: 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.

Respirators: Where risk assessment shows air-purifying respirators are appropriate use a fullface 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: Not available.

Odor: Not available.

pH: Not available.

Vapor Pressure: Not available.

Viscosity: Not available.

Relative density: 0,942 g/mL at 20 °C

Boiling Point: Not available.

Freezing/Melting Point: Not available.

Autoignition Temperature: Not available.

Flash Point: 100 °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: Not available

Bulk density (kg/m3): Not available

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Not available.

Incompatibilities with Other Materials: Strong oxidizing agents, Strong acids

Hazardous Decomposition Products: - Carbon oxides, Nitrogen oxides (NOx)

Hazardous Polymerization: Will not occur.

Section 11 - Toxicological Information

RTECS#: CAS 101-96-2 # : None listed

LD50/LC50: RTECS:

LD50 Oral - Rat - 148 mg/kg

Remarks: Behavioral:Somnolence (general depressed activity). Gastrointestinal:Other changes. Kidney, Ureter, Bladder:Other changes in urine composition.

LD50 Dermal - Rabbit - 2.806 mg/kg

Remarks: Behavioral:Tremor. Kidney, Ureter, Bladder:Other changes in urine composition. Prolonged skin contact may cause skin irritation and/or dermatitis.

Carcinogenicity: N,N'-Di-sec-butyl-p-phenylenediamine - 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 Toxic if swallowed. Causes burns.

Skin May be harmful if absorbed through skin. Causes skin burns.

Eyes Causes eye burns.

Section 12 - Ecological Information

Other adverse effects

Very toxic to aquatic life with long lasting effects.

Section 13 - Disposal Considerations

Product: Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging: Dispose of as unused product.

Section 14 - Transport Information

	IMO	RID/ADR	IATA
Shipping Name:	CORROSIVE LIQUID, TOXIC, N.O.S. (N,N'-Di-sec-butyl-p-phenylenediamine)	CORROSIVE LIQUID, TOXIC, N.O.S. (N,N'-Di-sec-butyl-p-phenylenediamine)	Corrosive liquid, toxic, n.o.s. (N,N'-Di-sec-butyl-p-phenylenediamine)
Hazard Class:	8 (6.1)	8 (6.1)	8 (6.1)
UN Number:	2922	2922	2922
Packing Group:	II	II	II
marine pollutant: YES			
other applicable information: 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 2 and 3

H301 Toxic if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects

MSDS Creation Date: 05/06/2018

Revision #2 Date: 18/08/2021

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