

## cdhfinechemical.com

# 1-BOC-4-(2-Hydroxyethyl) Piperazine CAS No 77279-24-4

# MATERIAL SAFETY DATA SHEET SDS/MSDS

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1	Product identifiers Product name	:	1-BOC-4-(2-Hydroxyethyl) Piperazine
	CAS-No.	:	77279-24-4
1.2	.2 Relevant identified uses of the substance or mixture and uses advised against		
	Identified uses	:	Laboratory chemicals, Industrial & for professional use only.
1.3	Details of the supplier of t Company		safety data sheet Central Drug House (P) Ltd 7/28 Vardaan House New Delhi-10002 INDIA
	Telephone Email	:	+91 11 49404040 care@cdhfinechemical.com
1.4	Emergency telephone number		

# Emergency Phone # : +91 11 49404040 (9:00am - 6:00 pm) [Office hours]

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008** Acute toxicity, Oral (Category 3), H301 Acute aquatic toxicity (Category 1), H400

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

Danger

Toxic if swallowed.

Very toxic to aquatic life.

#### 2.2 Label elements

Labelling according Regulation (EC) No 1272/2008 Pictogram



Signal word Hazard statement(s) H301 H400 Precautionary statement(s) P273 P301 + P310

Avoid release to the environment. IF SWALLOWED: Immediately call a POISON CENTER/doctor. Supplemental Hazard none Statements

#### 2.3 Other hazards - none

#### **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Formula	:	C <sub>11H22N2O3</sub>
Molecular weight	:	230.30 g/mol
CAS-No.	:	77279-24-4

### Hazardous ingredients according to Regulation (EC) No 1272/2008

Component		Classification	Concentration
1-Boc-4-(2-hydroxyethl)p	•	Aquita Tax, 21 Aquatia Aquita 1.	. 100.0/
CAS-No.	77279-24-4	Acute Tox. 3; Aquatic Acute 1; H301, H400	<= 100 %

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

#### **SECTION 4: First aid measures**

#### 4.1 Description of 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

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

#### In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

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

#### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

**4.3 Indication of any immediate medical attention and special treatment needed** No data available

#### **SECTION 5: Firefighting measures**

5.1 Extinguishing media

#### **Suitable extinguishing media** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture Carbon oxides, Nitrogen oxides (NOx)

#### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

# 5.4 Further information No data available

#### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

#### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

#### 6.3 Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

#### 6.4 **Reference to other sections** For disposal see section 13.

For disposal see section 13.

#### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.Normal measures for preventive fire protection.

For precautions see section 2.2.

#### 7.2 Conditions for safe storage, including any incompatibilities Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Storage class (TRGS 510): Combustible solids, toxic

#### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

#### 8.2 Exposure controls

#### Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

#### Personal protective equipment

#### **Eye/face protection**

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### **Skin protection**

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.

#### **Body Protection**

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.

#### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use (EN 143) respirator cartridges as a backup to engineering controls. If th full-face supplied air respirator. Use respirators

and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

#### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid	
b)	Odour	No data available	
c)	Odour Threshold	No data available	
d)	рН	No data available	
e)	Melting point/freezing point	Melting point/range: 38 - 42 °C	
f)	Initial boiling point and boiling range	No data available	
g)	Flash point	> 110 °C - closed cup	
h)	Evaporation rate	No data available	
i)	Flammability (solid, gas)	No data available	
j)	Upper/lower flammability or explosive limits	No data available	
k)	Vapour pressure	No data available	
I)	Vapour density	No data available	
m)	Relative density	No data available	
n)	Water solubility	No data available	
o)	Partition coefficient: n- octanol/water	log Pow: 0.581	
p)	Auto-ignition temperature	No data available	
q)	Decomposition temperature	No data available	
r)	Viscosity	No data available	
s)	Explosive properties	No data available	
t)	Oxidizing properties	No data available	
Other safety information No data available			

#### **SECTION 10: Stability and reactivity**

**10.1 Reactivity** No data available

9.2

- **10.2 Chemical stability** Stable under recommended storage conditions.
- **10.3 Possibility of hazardous reactions** No data available

#### **10.4 Conditions to avoid** No data available

**10.5** Incompatible materials Strong oxidizing agents

# 10.6 Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx) Other decomposition products - No data available In the event of fire: see section 5

#### **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

#### Acute toxicity

No data available1-Boc-4-(2-hydroxyethl)piperazine

Skin corrosion/irritation No data available(1-Boc-4-(2-hydroxyethl)piperazine)

**Serious eye damage/eye irritation** No data available(1-Boc-4-(2-hydroxyethl)piperazine)

**Respiratory or skin sensitisation** No data available(1-Boc-4-(2-hydroxyethl)piperazine)

#### Germ cell mutagenicity

No data available(1-Boc-4-(2-hydroxyethl)piperazine)

#### Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

#### **Reproductive toxicity**

No data available(1-Boc-4-(2-hydroxyethl)piperazine)

## Specific target organ toxicity - single exposure

No data available(1-Boc-4-(2-hydroxyethl)piperazine)

#### Specific target organ toxicity - repeated exposure No data available

#### Aspiration hazard

No data available(1-Boc-4-(2-hydroxyethl)piperazine)

#### **Additional Information**

RTECS: Not available

#### **SECTION 12: Ecological information**

- 12.1 Toxicity No data available
- 12.2 Persistence and degradability No data available

#### **12.3 Bioaccumulative potential** No data available

**12.4 Mobility in soil** No data available(1-Boc-4-(2-hydroxyethl)piperazine)

#### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

#### 12.6 Other adverse effects

Very toxic to aquatic life.

#### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chem scrubber.

#### Contaminated packaging

Dispose of as unused product.

#### **SECTION 14: Transport information**

14.1	UN numbe ADR/RID: 2	-	IMDG: 2811	IATA: 2811
14.2	UN proper shipping nameADR/RID:TOXIC SOLID, ORGANIC, N.O.S. (1-Boc-4-(2-hydroxyethl)piperazine)IMDG:TOXIC SOLID, ORGANIC, N.O.S. (1-Boc-4-(2-hydroxyethl)piperazine)IATA:Toxic solid, organic, n.o.s. (1-Boc-4-(2-hydroxyethl)piperazine)			piperazine)
14.3	Transport h ADR/RID: 6	nazard class(es) 5.1	IMDG: 6.1	IATA: 6.1
14.4	Packaging ADR/RID: I	• •	IMDG: III	IATA: III
14.5	Environme ADR/RID: r	<b>ntal hazards</b> 10	IMDG Marine pollutant: no	IATA: no
14.6	Special pre	cautions for user		

14.6 Special precautions for user No data available

#### **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

#### 15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

#### **SECTION 16: Other information**

#### Full text of H-Statements referred to under sections 2 and 3.

H301	Toxic if swallowed.
H400	Very toxic to aquatic life.

#### Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.cdhfinechemical.com for additional terms and conditions of sale.