

4-(2-HYDROXYETHYL)PIPERAZINE, N1-BOC PROTECTED

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Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: 4-(2-HYDROXYETHYL)PIPERAZINE, N1-BOC PROTECTED

CAS number: 77279-24-4

Product code: OR1550

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.3. Details of the supplier of the safety data sheet

Company name: Apollo Scientific Ltd Units 3 & 4 Parkway Denton Manchester M34 3SG UK Tel: 0161 337 9971 Fax: 0161 336 6932 Email: david.tideswell@apolloscientific.co.uk

1.4. Emergency telephone number

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Acute Tox. 3: H301; Aquatic Acute 1: H400

Most important adverse effects: Toxic if swallowed. Very toxic to aquatic life.

2.2. Label elements

Label elements: Hazard statements: H301: Toxic if swallowed. H400: Very toxic to aquatic life. Signal words: Danger Hazard pictograms: GHS06: Skull and crossbones GHS09: Environmental



Precautionary statements: P260: Do not breathe.

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P271: Use only outdoors or in a well-ventilated area.

P280: Wear.

P273: Avoid release to the environment.

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: 4-(2-HYDROXYETHYL)PIPERAZINE, N1-BOC PROTECTED

CAS number: 77279-24-4

Section 4: First aid measures

4.1. Description of first aid measures		
Skin contact:	: Remove all contaminated clothes and footwear immediately unless stuck to skin.	
	Drench the affected skin with running water for 10 minutes or longer if substance is still	
	on skin. Transfer to hospital if there are burns or symptoms of poisoning.	
Eve contact:	Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist	
	examination.	
Ingestion:	Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water	
	to drink immediately. If unconscious, check for breathing and apply artificial respiration if	
	necessary. If unconscious and breathing is OK, place in the recovery position. Transfer	
	to hospital as soon as possible.	
Inhalation:	Remove casualty from exposure ensuring one's own safety whilst doing so. If	
	conscious, ensure the casualty sits or lies down. If unconscious and breathing is OK,	
	place in the recovery position. If unconscious, check for breathing and apply artificial	
	respiration if necessary. If breathing becomes bubbly, have the casualty sit and provide	
	oxygen if available. Transfer to hospital as soon as possible.	
4.2. Most important symptoms	and effects, both acute and delayed	
Skin contact:	There may be redness or whiteness of the skin in the area of exposure. Irritation or pain	
	may occur at the site of contact. Absorption through the skin may be fatal.	
Eve contact:	There may be severe pain. The eyes may water profusely.	
-		
Ingestion:	There may be soreness and redness of the mouth and throat. There may be vomiting.	
	Convulsions may occur. There may be loss of consciousness.	
Inhalation:	There may be shortness of breath with a burning sensation in the throat. Absorption	
	through the lungs can occur causing symptoms similar to those of ingestion.	
	Convulsions may occur. There may be loss of consciousness.	

Delayed / **immediate effects:** Immediate effects can be expected after short-term exposure.

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4.3. Indication of any immediat	e medical attention and special treatment needed		
Immediate / special treatment:	Immediate medical attention is required. Show this safety data sheet to the doctor in		
	attendance.		
Section 5: Fire-fighting measure	res		
5.1. Extinguishing media			
Extinguishing media:	Carbon dioxide, dry chemical powder, foam. Suitable extinguishing media for the		
	surrounding fire should be used. Use water spray to cool containers.		
5.2. Special hazards arising fro	m the substance or mixture		
Exposure hazards:	Toxic. In combustion emits toxic fumes of carbon dioxide / carbon monoxide. Nitrogen		
	oxides (NOx).		
5.3. Advice for fire-fighters			
Advice for fire-fighters:	Wear self-contained breathing apparatus. Wear protective clothing to prevent contact		
	with skin and eyes.		
Section 6: Accidental release n	neasures		
6.1 December proputions, prot	estive antiment and amorganov procedures		
6.1. Personal precautions, prot	tective equipment and emergency procedures		
Personal precautions:	Notify the police and fire brigade immediately. If outside do not approach from		
	downwind. If outside keep bystanders upwind and away from danger point. Mark out the		
	contaminated area with signs and prevent access to unauthorised personnel. Do not		
	attempt to take action without suitable protective clothing - see section 8 of SDS. Do not		
	create dust.		
6.2. Environmental precautions	\$		
Environmental precautions:	Do not discharge into drains or rivers.		
6.3. Methods and material for c	ontainment and cleaning up		
Clean-up procedures:	Clean-up should be dealt with only by qualified personnel familiar with the specific		
	substance. Transfer to a closable, labelled salvage container for disposal by an		
	appropriate method.		
6.4. Reference to other section	S		
Reference to other sections:	Refer to section 8 of SDS.		
Section 7: Handling and storage			
7.1. Precautions for safe handling			
Handling requirements:	Avoid direct contact with the substance. Ensure there is exhaust ventilation of the area.		
	Avoid the formation or spread of dust in the air. Only use in fume hood.		

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7.2. Conditions for safe storag	e, including any incompatibilities	
Storage conditions:	Store in a cool, well ventilated area. Keep container tightly closed. The floor of the	
	storage room must be impermeable to prevent the escape of liquids.	
Suitable packaging:	Must only be kept in original packaging.	
7.3. Specific end use(s)		
Specific end use(s):	No data available.	
Section 8: Exposure controls/	personal protection	
8.1. Control parameters		
Workplace exposure limits:	No data available.	
DNEL/PNEC Values		
DNEL / PNEC	No data available.	
8.2. Exposure controls		
Engineering measures:	Ensure there is exhaust ventilation of the area. The floor of the storage room must be	
	impermeable to prevent the escape of liquids.	
Respiratory protection:	Self-contained breathing apparatus must be available in case of emergency. Particle	
	filter class P1 (EN143).	
Hand protection:	Protective gloves.	
Eye protection:	Safety glasses with side-shields. Ensure eye bath is to hand.	
Skin protection:	Protective clothing.	
Section 9: Physical and chemi	cal properties	
9.1. Information on basic phys	cal and chemical properties	
State:	Solid	
	White to light brown	
Boiling point/range℃:		
Flash point ℃:		
9.2. Other information		
Other information:		

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

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10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Heat.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes of carbon dioxide / carbon monoxide. Nitrogen oxides

(NOx).

Section 11: Toxicological information

11.1. Information on toxicological effects

Relevant hazards for product:

Hazard	Route	Basis
Acute toxicity (ac. tox. 3)	ING	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: There may be redness or whiteness of the skin in the area of exposure. Irritation or pain may occur at the site of contact. Absorption through the skin may be fatal.

Eye contact: There may be severe pain. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat. There may be vomiting. Convulsions may occur. There may be loss of consciousness.

Inhalation: There may be shortness of breath with a burning sensation in the throat. Absorption through the lungs can occur causing symptoms similar to those of ingestion.

Convulsions may occur. There may be loss of consciousness.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: No data available.

12.2. Persistence and degradability

Persistence and degradability: No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

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12.4. Mobility in soil

Mobility: No data available.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Toxic to aquatic organisms. Toxic to soil organisms.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: MATERIAL SHOULD BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS

Disposal of packaging: Dispose of as special waste in compliance with local and national regulations Observe all federal, state and local environmental regulations.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: UN2811

14.2. UN proper shipping name

Shipping name: TOXIC SOLID, ORGANIC, N.O.S.

14.3. Transport hazard class(es)

Transport class: 6.1

14.4. Packing group

Packing group: III

14.5. Environmental hazards

Environmentally hazardous: No

14.6. Special precautions for user

Special precautions: No special precautions.

Tunnel code: E

Transport category: 2

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Specific regulations: Not applicable.

Marine pollutant: No

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15.2. Chemical Safety Assessment		
Chemical safety assessment:	A chemical safety assessment has not been carried out for the substance or the mixture	
-	by the supplier.	
Section 16: Other information		
Section 16. Other information		
Other information		
Other information:	This safety data sheet is prepared in accordance with Commission Regulation (EU) No	
	2015/830.	
	* Data predicted using computational software. The OECD QSAR-Toolbox for grouping	
	chemicals into categories. Developed by LMC bulgaria.	
	http://echa.europa.eu/support/oecd-qsar-toolbox	
	~ Data predicted using computational software ACD/ToxSuite v 2.95.1 Copyright 1994-	
	2009 ACD/labs, Copyright 2001-2009 Pharma Algorithms, Inc, Advanced Chemistry	
	Development, Inc (ACD/Labs). http://www.acdlabs.com/products/pc_admet/tox/tox/	
Phrases used in s.2 and s.3:	H301: Toxic if swallowed.	
	H400: Very toxic to aquatic life.	
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	' knowledge. The above information is believed to be correct to the best of our knowledge	
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