

(2S)-2-ISOPROPYLPIPERAZINE, N1-BOC PROTECTED

Page: 1 Compilation date: 11/06/2010 Revision date: SAP Revision No: 1

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

1.1. Product identifier

Product name: (2S)-2-ISOPROPYLPIPERAZINE, N1-BOC PROTECTED

CAS number: 674792-05-3

Product code: OR15647

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:STOT SE 3: H335; Eye Irrit. 2: H319; Skin Irrit. 2: H315Classification under CHIP:Xi: R36/37/38Most important adverse effects:Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

### 2.2. Label elements

Label elements:	
Hazard statements:	H315: Causes skin irritation.
	H319: Causes serious eye irritation.
	H335: May cause respiratory irritation.
Signal words:	Warning
Hazard pictograms:	GHS07: Exclamation mark



#### (2S)-2-ISOPROPYLPIPERAZINE, N1-BOC PROTECTED

Page: 2

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

P261: Avoid breathing vapours.

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

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: (2S)-2-ISOPROPYLPIPERAZINE, N1-BOC PROTECTED

CAS number: 674792-05-3

#### 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. Wash immediately with plenty of soap and water.

**Eye contact:** Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Wash out mouth with water. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

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

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

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

### 4.3. Indication of any immediate medical attention and special treatment needed

#### Immediate / special treatment: Eye bathing equipment should be available on the premises.

### Section 5: Fire-fighting measures

#### 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 from the substance or mixture

**Exposure hazards:** In combustion emits toxic fumes of carbon dioxide / carbon monoxide. Nitrogen oxides (NOx).

## (2S)-2-ISOPROPYLPIPERAZINE, N1-BOC PROTECTED

		Page:	3
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 m	neasures		
6.1. Personal precautions, prote	ective equipment and emergency procedures		
Personal precautions:	Refer to section 8 of SDS for personal protection details. 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. Turn		
	leaking containers leak-side up to prevent the escape of liquid.		
6.2. Environmental precautions			
-			
	Do not discharge into drains or rivers. Contain the spillage using bunding.		_
6.3. Methods and material for c	ontainment and cleaning up		
Clean-up procedures:	Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for		
	disposal by an appropriate method.		
6.4. Reference to other sections	3		
Reference to other sections:	Refer to section 8 of SDS.		
Section 7: Handling and storage			
7.1. Precautions for safe handli	ng		
Handling requirements:	Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area.		
	Do not handle in a confined space. Avoid the formation or spread of mists in the air. Only		
	use in fume hood.		
7.2. Conditions for safe storage	, including any incompatibilities		
Storage conditions:	Store in a cool, well ventilated area. Keep container tightly closed. Moisture sensitive.		
otorage contantorio.	Store under Argon.		
Suitable packaging:	Must only be kept in original packaging.		
7.3. Specific end use(s)			
Specific end use(s):			
Section 8: Exposure controls/p	ersonal protection		
			_

8.1. Control parameters

Workplace exposure limits: No data available.

**DNEL/PNEC** Values

DNEL / PNEC No data available.

## (2S)-2-ISOPROPYLPIPERAZINE, N1-BOC PROTECTED

Page: 4

8.2. Exposure controls	
Engineering measures:	Ensure there is sufficient ventilation of the area.
	Self-contained breathing apparatus must be available in case of emergency.
Hand protection:	Protective gloves.
Eye protection:	Safety glasses. Ensure eye bath is to hand.
Skin protection:	Protective clothing.
Section 9: Physical and chemical properties	
9.1. Information on basic physical and chemical properties	
State:	
	Colourless
	Colourless
9.2. Other information	
Other information:	FP and BP are predicted values based on ACD labs software.
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.
10.3. Possibility of hazardous re	actions
Hazardous reactions:	Hazardous reactions will not occur under normal transport or storage conditions.
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 substance:

Hazard Houte Basis	Hazard	Route	Basis	
--------------------	--------	-------	-------	--

### (2S)-2-ISOPROPYLPIPERAZINE, N1-BOC PROTECTED

Page: 5

Skin corrosion/irritation	DRM	Based on test data
Serious eye damage/irritation	OPT	Based on test data
STOT-single exposure	INH	Based on test data

#### Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

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.

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: No data available.

### Section 13: Disposal considerations

13.1. Waste treatment methods	
Disposal operations:	Transfer to a suitable container and arrange for collection by specialised disposal
	company. 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.

### (2S)-2-ISOPROPYLPIPERAZINE, N1-BOC PROTECTED

## Section 14: Transport information

### Transport class: This product does not require a classification for transport.

### Section 15: Regulatory information

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

## 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

Other information	
Other information:	This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.
	* Data predicted using computational software. Toxtree - Toxic Hazard Estimation by
	decision tree approach. http://ecb.jrc.ec.europa.eu/qsar/qsar-tools/index.php? c=TOXTREE
	~ 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:	H315: Causes skin irritation.
	H319: Causes serious eye irritation.
	H335: May cause respiratory irritation.
	R36/37/38: Irritating to eyes, respiratory system and skin.
Legend to abbreviations:	PNEC = predicted no effect level
	DNEL = derived no effect level
	LD50 = median lethal dose
	LC50 = median lethal concentration
	EC50 = median effective concentration
	IC50 = median inhibitory concentration
	dw = dry weight
	bw = body weight
	cc = closed cup
	oc = open cup
	MUS = mouse
	GPG = guinea pig
	RBT = rabbit
	HAM = hamster
	HMN = human

(2S)-2-ISOPROPYLPIPERAZINE, N1-BOC PROTECTED

**Page:** 7

	MANA
	MAM = mammal
	PGN = pigeon
	IVN = intravenous
	SCU = subcutaneous
	SKN = skin
	DRM = dermal
	OCC = ocular/corneal
	PCP = phycico-chemical properties
Legal disclaimer:	The material is intended for research purposes only and should be handled exclusively
	by those who have been fully trained in safety, laboratory and chemical handling
	procedures. The above information is believed to be correct to the best of our
	knowledge. The above information is believed to be correct to the best of our knowledge
	at the date of its publication, but should not be considered to be all inclusive. It should
	be used only as a guide for safe handling, storage, transportation and disposal. We
	cannot guarantee that the hazards detailed in this document are the only hazards that
	exist for this product. This is not a warranty and Apollo Scientific Ltd shall not be held
	liable for any damage resulting from handling or from contact with the above product.