

2,4-BIS(TRIFLUOROMETHYL)BENZONITRILE

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

1.1. Product identifier

Product name: 2,4-BIS(TRIFLUOROMETHYL)BENZONITRILE

CAS number: 177952-38-4

Product code: PC3095

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

Emergency tel: -

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Acute Tox. 3: H301; Acute Tox. 4: H312+H332; STOT SE 3: H335; Eye Irrit. 2: H319; Skin Irrit. 2: H315 Most important adverse effects: Toxic if swallowed. Harmful in contact with skin or if inhaled Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

2.2. Label elements

Label elements:	
Hazard statements:	H301: Toxic if swallowed.
	H312+H332: Harmful in contact with skin or if inhaled
	H315: Causes skin irritation.
	H319: Causes serious eye irritation.
	H335: May cause respiratory irritation.
Hazard pictograms:	GHS06: Skull and crossbones

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Signal words:	Danger
Precautionary statements:	P301+P310: IF SWALLOWED: Immediately call a POISON CENTER.
	P302+P352: IF ON SKIN: Wash with plenty of water.
	P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove
	contact lenses, if present and easy to do. Continue rinsing.

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: 2,4-BIS(TRIFLUOROMETHYL)BENZONITRILE

CAS number: 177952-38-4

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. Was	
	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. 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. Transfer to hospital as soon as possible.

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 pain and redness.

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.

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: Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

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ection 5: Fire-fighting measur	res
5.1. Extinguishing media	
	Carbon dioxide, dry chemical powder, foam. Suitable extinguishing media for the
EAtinguishing mount	surrounding fire should be used. Use water spray to cool containers.
5.2. Special hazards arising fro	
Exposure hazards:	Toxic. In combustion emits toxic fumes of carbon dioxide / carbon monoxide. Nitrogen
	oxides (NOx). Hydrogen fluoride (HF).
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.
ction 6: Accidental release n	neasures
6.1. Personal precautions, prot	tective equipment and emergency procedures
Personal precautions:	Notify the police and fire brigade immediately. 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. Turn leaking containers leak-side up to prevent the
	escape of liquid.
6.2. Environmental precautions	3
Environmental precautions:	Do not discharge into drains or rivers. Contain the spillage using bunding.
6.3. Methods and material for c	containment and cleaning up
Clean-up procedures:	Clean-up should be dealt with only by qualified personnel familiar with the specific
••	substance. Absorb into dry earth or sand. Transfer to a closable, labelled salvage
	container for disposal by an appropriate method.
6.4. Reference to other section	
Reference to other sections:	
ection 7: Handling and storag	je
7.1. Precautions for safe handli	ing
Handling requirements:	Avoid direct contact with the substance. Avoid the formation or spread of mists in the air.
	Ensure there is sufficient ventilation of the area. Only use in fume hood.
7.2. Conditions for safe storage	e, including any incompatibilities
	Store in a cool, well ventilated area. Keep container tightly closed.
-	
Sultania narraana.	Must only be kept in original packaging.

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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 sufficient ventilation of the area.Respiratory protection: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:	Liquid		
Colour:	Colourless		
Odour:	Almond-like		
Evaporation rate:	No data available.		
Oxidising:	No data available.		
Solubility in water:	No data available.		
Viscosity:	No data available.		
Boiling point/range °C:	No data available. Melting point/rang	e℃:	No data available.
Flammability limits %: lower:	No data available. ur	per:	No data available.
Flash point ℃:	No data available. Part.coeff. n-octanol/w	ater:	No data available.
Autoflammability°C:	No data available. Vapour press	sure:	No data available.
Relative density:	No data available.	pH:	No data available.
VOC g/l:	No data available.		

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

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10.2. Chemical stability

Chemical stability: Stable under normal conditions.

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). Hydrogen fluoride (HF).

Section 11: Toxicological information

11.1. Information on toxicological effects

Relevant hazards for product:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	INH DRM	Hazardous: calculated
Acute toxicity (ac. tox. 3)	ING	Hazardous: calculated
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated
STOT-single exposure	INH	Hazardous: calculated

Symptoms / routes of exposure

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

Eye contact: There may be pain and redness.

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.

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.

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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:
 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: UN3276

14.2. UN proper shipping name

Shipping name: NITRILES, LIQUID, TOXIC, 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

Marine pollutant: No

14.6. Special precautions for user

Special precautions: No special precautions.

Tunnel code: E

Transport category: 2

Section 15: Regulatory information

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

Specific regulations: Not applicable.

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 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.
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	H315: Causes skin irritation.
	H319: Causes serious eye irritation.
	H335: May cause respiratory irritation.
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