

4-(N-BUTOXY)BENZENESULPHONYL CHLORIDE

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

1.1. Product identifier

Product name: 4-(N-BUTOXY)BENZENESULPHONYL CHLORIDE

CAS number: 1138-56-3

Product code: OR0005

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: Skin Corr. 1B: H314

Most important adverse effects: Causes severe skin burns and eye damage.

2.2. Label elements

Label elements:

Hazard statements: H314: Causes severe skin burns and eye damage.

Signal words: Danger

Hazard pictograms: GHS05: Corrosion



Precautionary statements: P301+330+331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

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P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+351+338: 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: 4-(N-BUTOXY)BENZENESULPHONYL CHLORIDE

CAS number: 1138-56-3

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.		
	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.		
Eye 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. Give 1 cup of water to drink every 10		
	minutes. 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		
	unconscious and breathing is OK, place in the recovery position. If conscious, ensure		
	the casualty sits or lies down. 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:	Blistering may occur. Progressive ulceration will occur if treatment is not immediate.		
Eye contact:	Corneal burns may occur. May cause permanent damage.		
Ingestion:	Corrosive burns may appear around the lips. Blood may be vomited. There may be		
	bleeding from the mouth or nose.		
Inhalation:	There may be shortness of breath with a burning sensation in the throat. Exposure may		
	cause coughing or wheezing.		
4.3. Indication of any immediate medical attention and special treatment needed			

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.

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5.2. Special hazards arising from	om the substance or mixture
Exposure hazards:	Corrosive. In combustion emits toxic fumes of carbon dioxide / carbon monoxide.
	Sulphur oxides (SOx). Hydrogen chloride (HCI).
5.3. Advice for fire-fighters	
Advice for fire-fighters:	Wear self-contained breathing apparatus. Wear protective clothing to prevent contact
Autor for the lighterer	wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.
Section 6: Accidental release r	·
	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	S
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	
Section 7: Handling and storage	је
7.1. Precautions for safe handl	ing
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. Handle under dry protective gas (Ar).
7.2. Conditions for safe storag	e, including any incompatibilities
Storage conditions.	Store in a cool, well ventilated area. Keep container tightly closed. Moisture sensitive.
Suitable nackaging:	Store under Argon.
	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

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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:Impermeable gloves.Eye protection:Tightly fitting safety goggles. Ensure eye bath is to hand.Skin protection:Impermeable protective clothing.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State:	Liquid	
Colour:	Colourless	
Evaporation rate:	No data available.	
Oxidising:	No data available.	
Solubility in water:	Reacts with water.	
Viscosity:	No data available.	
Boiling point/range℃:	130-131/0.6mm Melting point/range °	: No data available.
Flammability limits %: lower:	No data available. uppe	r: No data available.
Flash point ℃:	No data available. Part.coeff. n-octanol/wate	r: No data available.
Autoflammability℃:	No data available. Vapour pressur	e: No data available.
Relative density:	No data available. P	I: 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.

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.

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10.4. Conditions to avoid

Conditions to avoid: Heat. Moist air. Humidity.

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. Hydrogen

chloride (HCI).

Section 11: Toxicological information

11.1. Information on toxicological effects

Relevant hazards for product:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: Blistering may occur. Progressive ulceration will occur if treatment is not immediate.

Eye contact: Corneal burns may occur. May cause permanent damage.

Ingestion: Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.

Inhalation: There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

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.

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Section 13: Disposal considera	ations
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
p	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 informat	ion
14.1. UN number	
UN number:	UN3265
14.2. UN proper shipping name	
Shipping name:	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
14.3. Transport hazard class(es	s)
Transport class:	8
14.4. Packing group	
Packing group:	11
14.5. Environmental hazards	
Environmentally hazardous:	No Marine pollutant: No
14.6. Special precautions for us	ser
Tunnel code:	F
Transport category:	
Section 15: Regulatory information	
	mental regulations/legislation specific for the substance or mixture
Specific regulations:	
15.2. Chemical Safety Assessm	
Chemical salety 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.

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chemicals into categories. Developed by LMC bulgaria. http://echa.europa.eu/support/oecd-gsar-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: H314: Causes severe skin burns and eye damage. 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 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

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