

4-BROMO-2,6-DICHLOROBENZENESULPHONYL CHLORIDE

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

# 1.1. Product identifier

Product name: 4-BROMO-2,6-DICHLOROBENZENESULPHONYL CHLORIDE

CAS number: 351003-54-8

Product code: OR4495

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 CHIP: C: R34

Classification under CLP: Skin Corr. 1B: H314

Most important adverse effects: Causes burns.

# 2.2. Label elements

Label elements under CLP:

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

Signal words: Danger

Hazard pictograms: GHS05: Corrosion



Precautionary statements: P260: Do not breathe dust.

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

P308+313: IF exposed or concerned: Get medical advice/attention.

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	P	age:	2			
Label elements under CHIP:						
Hazard symbols:	Corrosive.					
Risk phrases:	R34: Causes burns.					
Safety phrases:	S24/25: Avoid contact with skin and eyes.					
	S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.					
	S45: In case of accident or if you feel unwell, seek medical advice immediately (show					
	the label where possible).					
2.3. Other hazards						
PBT:	This substance is not identified as a PBT substance.					
Section 3: Composition/information on ingredients						
3.1. Substances						
Chemical identity:	4-BROMO-2,6-DICHLOROBENZENESULPHONYL CHLORIDE					
Section 4: First aid measures						
4.1. Description of first aid mea	asures					
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.

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# 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. Do not use water.

# 5.2. Special hazards arising from the substance or mixture

**Exposure hazards:** Corrosive. In combustion emits toxic fumes of carbon dioxide / carbon monoxide. Sulphur oxides (SOx). Hydrogen chloride (HCl). Hydrogen bromide (HBr).

### 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 measures

### 6.1. Personal precautions, protective 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. Do not create dust.

### 6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers.

# 6.3. Methods and material for containment 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 sections

## Section 7: Handling and storage

### 7.1. Precautions for safe handling

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 dust in the air. Only use in fume hood.

### 7.2. Conditions for safe storage, including any incompatibilities

 Storage conditions:
 Store in cool, well ventilated area. Keep container tightly closed. Light Sensitive. Product reacts with water. Take precautions to avoid contact with atmospheric moisture. Store under Argon.

Suitable packaging: 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.			
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. Respiratory			
	protective device with particle filter.			
Hand protection:	Protective gloves.			
Eye protection:	Tightly fitting safety goggles. Ensure eye bath is to hand.			
Skin protection:	Protective clothing.			
Section 9: Physical and chemi	cal properties			
9.1. Information on basic physic	cal and chemical properties			
State:	Solid			
	Non-oxidising (by EC criteria)			
Solubility in water:				
Melting point/range °C:				
9.2. Other information				
Other information:	No data available.			
Section 10: Stability and react	vity			
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				
Hazardous reactions:	: Hazardous reactions will not occur under normal transport or storage conditions.			
10.4. Conditions to avoid				
Conditions to avoid:	: Heat. Light. Moist air. Humidity.			

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Water. Bases.

# 10.6. Hazardous decomposition products

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

(SOx) Hydrogen chloride (HCl). Hydrogen bromide gas (HBr).

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## Section 11: Toxicological information

# 11.1. Information on toxicological effects

### Relevant hazards for substance:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Based on test data
Serious eye damage/irritation	OPT	Based on test data

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 substance is not identified as a PBT 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.

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# Section 14: Transport information 14.1. UN number UN number: UN3261 14.2. UN proper shipping name Shipping name: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (4-Bromo-2,6-dichlorobenzenesulphonyl chloride) 14.3. Transport hazard class(es) Transport class: 8 14.4. Packing group Packing group: || 14.5. Environmental hazards Environmentally hazardous: No Marine pollutant: No 14.6. Special precautions for user Tunnel code: E Transport category: 2 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 computatioanl 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 3: H314: Causes severe skin burns and eye damage. R34: Causes burns. 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

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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.

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