

A CENTRAL GLASS CO., LTD. COMPANY2,3-DIHYDRO-2-OXO-1,3-BENZOXAZOLE-6-SULPHONYL CHLORIDE

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Compilation date: 02/11/2011

Revision date: 05/12/2011

Revision No: 2

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

1.1. Product identifier

Product name: 2,3-DIHYDRO-2-OXO-1,3-BENZOXAZOLE-6-SULPHONYL CHLORIDE CAS number: 27685-90-1

EINECS number: 248-605-0

Product code: OR45020

Synonyms: 6-(CHLOROSULPHONYL)-2,3-DIHYDRO-2-OXO-1,3-BENZOXAZOLE

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:	-: R14; Xn: R22; -: R29; C: R34	
Classification under CLP:	Skin Corr. 1B: H314; Acute Tox. 4: H302; Eye Dam. 1: H318	
Most important adverse effects:	Reacts violently with water. Harmful if swallowed. Contact with water liberates toxic gas.	
	Causes burns.	
2.2. Label elements		
Label elements under CLP:		
Hazard statements:	H318: Causes serious eye damage.	
	H314: Causes severe skin burns and eye damage.	
	H302: Harmful if swallowed.	
Signal words:	Danger	
Hazard pictograms:	GHS05: Corrosion	
	GHS07: Exclamation mark	[cont]

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

P309+311: IF exposed or if you feel unwell: Call a POISON CENTER or doctor.

Label elements under CHIP:

Hazard symbols: Corrosive.



Risk phrases: R14: Reacts violently with water. R22: Harmful if swallowed. R29: Contact with water liberates toxic gas. R34: Causes burns.

2.3. Other hazards

Other hazards: Contact with water emits toxic gas (EUH029) Reacts violently with water (EUH014)

PBT: This substance is not identified as a PBT substance.

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: 2,3-DIHYDRO-2-OXO-1,3-BENZOXAZOLE-6-SULPHONYL CHLORIDE

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.
	and offered a back and delaured

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.

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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 immediat	e medical attention and special treatment needed		
Section 5: Fire-fighting measu	res		
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 fro	om the substance or mixture		
Exposure hazards:	Corrosive. In combustion emits toxic fumes. Carbon oxides. Nitrogen oxides (NOx).		
	Hydrogen chloride (HCI). Sulphur oxides (SOx).		
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 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. 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.

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7.2. Conditions for safe storag	e, including any incompatibilities		
Storage conditions:	Store in cool, well ventilated area. Keep container tightly closed. Moisture 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.		
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:	Not applicable.		
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 phys	ical and chemical properties		
State:	Powder		
Colour:	Off-white		
Melting point/range °C:	190-192		
9.2. Other information			

9.2. Other information

Other information: Not applicable.

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.

10.4. Conditions to avoid

Conditions to avoid: Heat. Moist air. Water.

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10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids. Amines. Strong reducing agents.

10.6. Hazardous decomposition products

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

(NOx). Hydrogen Chloride Gas Sulfur oxides (SOx)

Section 11: Toxicological information

11.1. Information on toxicological effects

Relevant hazards for substance:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	ING	Based on test data
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: Not applicable.

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.

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Section 13: Disposal considera	ations
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 informat	ion
14.1. UN number	
UN number:	UN3261
14.2. UN proper shipping name	
Shipping name:	CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.
14.3. Transport hazard class(es	ŝ)
Transport class:	8
14.4. Packing group	
Packing group:	III
14.5. Environmental hazards	
Environmentally hazardous:	No Marine pollutant: No
14.6. Special precautions for us	ser
Tunnel code:	E
Transport category:	3
Section 15: Regulatory information	ation
15.1. Safety, health and enviror	mental regulations/legislation specific for the substance or mixture
-	
15.2. Chemical Safety Assessm	
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?

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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: H302: Harmful if swallowed.

H314: Causes severe skin burns and eye damage.

H318: Causes serious eye damage.

R14: Reacts violently with water.

R22: Harmful if swallowed.

R29: Contact with water liberates toxic gas.

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 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.