

2,3-DIHYDROBENZO[B]FURAN-5-SULPHONYL CHLORIDE

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Revision No: 2

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

1.1. Product identifier

Product name: 2,3-DIHYDROBENZO[B]FURAN-5-SULPHONYL CHLORIDE

CAS number: 115010-11-2

Product code: OR22992

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: 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.

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Label elements under CHIP:			
Hazard symbols:	Corrosive.		
Risk phrases:	R34: Causes burns.		
Safety phrases:	S22: Do not breathe dust.		
	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/inform	nation on ingredients		
-			
3.1. Substances			
Chemical identity:	2,3-DIHYDROBENZO[B]FURAN-5-SULPHONYL 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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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: Corrosive. In combustion emits toxic fumes. Carbon oxides. Sulphur oxides (SOx). Hydrogen chloride (HCl).

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

Reference to other sections: Refer to section 8 of SDS.

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 storage	e, including any incompatibilities	
Storage conditions:	Store in cool, well ventilated area. Keep container tightly closed. Moisture sensitive.	
	Store under Argon. Recommended storage temp 2-8 °C.	
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/p	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 chemical properties		
9.1. Information on basic physi	cal and chemical properties	
State:	Solid	
Colour:	White	

Also soluble in: Toluene.

. . .

Melting point/range °C: 74-85

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.

10.4. Conditions to avoid

Conditions to avoid: Heat. Moist air. Humidity.

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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 (HCl). Sulphur oxides (SOx)

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.
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 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 considerations	
13.1. Waste treatment methods	8
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 informa	tion
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(e	s)
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 u	ser
Special precautions:	No special precautions.
Tunnel code:	E
Transport category:	3
Section 15: Regulatory inform	ation
15.1. Safety, health and enviro	nmental regulations/legislation specific for the substance or mixture
15.2. Chemical Safety Assessm	nent
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

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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-
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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
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