

THIOPHENE-3-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: THIOPHENE-3-SULPHONYL CHLORIDE

CAS number: 51175-71-4

Product code: OR23200

Synonyms: 3-(CHLOROSULPHONYL)THIOPHENE

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; -: R29; C: R34
Classification under CLP:	Skin Corr. 1B: H314; -: EUH014; -: EUH029
Most important adverse effects:	Reacts violently with water. Contact with water liberates toxic gas. Causes burns.

2.2. Label elements

Label elements under CLP:

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

EUH014: Reacts violently with water.

EUH029: Contact with water liberates toxic gas.

Signal words: Danger

Hazard pictograms: GHS05: Corrosion



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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.
	R29: Contact with water liberates toxic gas.
	R34: Causes burns.
Safety phrases:	S26: In case of contact with eyes, rinse immediately with plenty of water and seek
	medical advice.

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: THIOPHENE-3-SULPHONYL CHLORIDE

Section 4: First aid measures

4.1. Description of first aid n	neasures
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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.

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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	te 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 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		
	with skin and eyes.		
Section 6: Accidental release r	·		
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	5		
Environmental precautions:	Do not discharge into drains or rivers.		
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. Transfer to a closable, labelled salvage container for disposal by an		
	appropriate method.		
6.4. Reference to other section			
	5		

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. Product reacts with		
5	water. Take precautions to avoid contact with atmospheric moisture. Store under Argon.		
	Recommended storage temp 2-8 ℃.		
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			
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Workplace exposure limits:	no data avaliable.		
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 physi	cal and chemical properties		
	Powder		
Colour:	Colourless		
Solubility in water:	Reacts with water.		
Boiling point/range °C:	101-103 Melting point/range °C: 44-46		
9.2. Other information			

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. Water.

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.

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 12: Dispacel consider	stiona
Section 13: Disposal considera	
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:	
14.2. UN proper shipping name	
	CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.
14.3. Transport hazard class(es	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 us	
Tunnel code:	
Transport category:	
Section 15: Regulatory informa	
15.1. Safety, health and environ	mental regulations/legislation specific for the substance or mixture
15.2. Chemical Safety Assessm	ent
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:	EUH014: Reacts violently with water.
	EUH029: Contact with water liberates toxic gas.
	H314: Causes severe skin burns and eye damage.
	R14: Reacts violently with water.
	R29: Contact with water liberates toxic gas.
	R34: Causes burns.
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