

Revision Date:11-06-2024 Date of printing: 11-07-2023

# **SAFETY DATA SHEET**

			SAFETY DATA SHEET
SEC	ΓΙΟΝ 1: Identification of the	ne si	ubstance/mixture and of the company/undertaking
1.1	Product identifiers	1	
	Product name	:	5-Chlorothiophene-2-carboxylic acid
	CAS-No.	:	24065-33-6
1.2		of t	he substance or mixture and uses advised against
	Identified uses	:	Laboratory chemicals, Manufacture of substances.
1.3	Details of the supplier of	f the	
	Company	:	Inventys Research Company Pvt LtdD-514, Kanakia Zillion, BKC Annex, (LBS Road Junction, CST Road, Near Kurla Bus Depot), Kurla West, Mumbai 400070. INDIA Tel:+91.22.714.00.200 Fax:+91.22.714.00.299 www.Inventys.In
1.4	Emergency telephone no	umb	
	Emergency Phone #	:	+91 22.714.00.200
SEC	ΓΙΟΝ 2: Hazards identifica	tion	
2.1	Classification of the sub		to Regulation (EC) No 1272/2008
	Label elements  Labelling according Regularity Pictogram  Signal word Danger  Hazard statement(s)  H302 Harmful if swallow H318 Causes serious ey  Precautionary statem P264 Wash skin thoroug P270 Do not eat, drink of P280 Wear eye protection P280 Wear eye protection P301 + P312: IF SWALL P305 + P351 + P338 : IR Remove contact lenses,	wed. wed. ation wed. ation wed. and	ments mentioned in this Section, see Section 16.  In (EC) No 1272/2008  In (EC) No 1272/
			N CENTER/doctor if you feel unwell.
·			, ,

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Reduced Labeling (<= 125 ml)

Pictogram





Signal Word Danger

Hazard statement(s)

H318: Causes serious eye damage.

Precautionary statement(s)

P280 Wear eye protection/ face protection.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental Hazard Statements: none

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### **SECTION 3: Composition/information on ingredients**

3.1	Substances		
	Synonyms.	:	2-Thiophenecarboxylic acid, 5-chloro-

Formula	1	$C_5H_3ClO_2S$
Molecular weight	:	162.59 g/mol
CAS-No	:	24065-33-6
EC Number	1:	480-060-6

Component	Classification	Concentration

# 5-Chlorothiophene-2-carboxylic acid

EC-No.: 480-060-6

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

### General advice

Show this material safety data sheet to the doctor in attendance.

#### If inhaled

After inhalation: fresh air.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with

water/ shower.

### In case of eye contact

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist.

Remove contact lenses.

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	If swallowed After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.
4.2	Most important symptoms and effects, both acute and delayed
	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.
4.3	Indication of any immediate medical attention and special treatment needed
SEC	No data available
5.1	TION 5: Firefighting measures  Extinguishing media
J.1	Suitable extinguishing media Water Foam Carbon dioxide (CO2) Dry powder Unsuitable extinguishing media For this substance/mixture no limitations of extinguishing agents are given.
5.2	Special hazards arising from the substance or mixture
	Carbon oxides Sulfur oxides Hydrogen chloride gas Combustible. Development of hazardous combustion gases or vapors possible in the event of fire.
5.3	Advice for firefighters
	In the event of fire, wear self-contained breathing apparatus.
5.4	Further information
	Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.
SEC	TION 6: Accidental release measures
6.1	Personal precautions, protective equipment and emergency procedures
	Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.  For personal protection see section 8.
6.2	Environmental precautions
	Do not let product enter drains.
6.3	Methods and materials for containment and cleaning up
	Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.
6.4	Reference to other sections
	For disposal see section 13.
SEC	TION 7: Handling and storage
7.1	Precautions for safe handling
	For precautions see section 2.2
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7.2 Conditions for safe storage including any incompatibilities

Storage conditions

Tightly closed. Dry.

Storage class

Storage class (TRGS 510): 11: Combustible Solids

7.3 | Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

### **SECTION 8: Exposure controls/personal protection**

### **8 1** Control parameters

Ingredients with workplace control parameters

### 8.2 | Exposure controls

### Personal protective equipment

### Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles.

### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

### Full contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail

sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

## **Body Protection**

protective clothing

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## Respiratory protection

required when dusts are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Recommended Filter type: Filter type P2

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Control of environmental exposure: Do not let product enter drains.

	SECTION 9: Physical ar	nd chemical properties
9.1	Information on basic pl	hysical and chemical properties
	a) Appearance	Form: solid Color: No data available
	b) Odor	No data available
	c) Odor Threshold	No data available
	d) pH	No data available
	e) Melting point/ freezing point	Melting point/range: 154 - 158 °C - lit.
	f) Initial boiling point and boiling range	No data available
	g) Flash point	No Data Available
	h) Evaporation rate	No Data Available
	i) Flammability (solid, gas)	No Data Available
	j) Upper/lower flammability or explosive limits	No Data Available
	k) Vapor pressure	No Data Available
	I) Vapor density	No Data Available
	m) Relative density	1.626 at 20 °C - Regulation (EC) No. 440/2008, Annex, A.3
	n) Water solubility	1.01 g/l at 20 °C - Regulation (EC) No. 440/2008, Annex, A.6
	o) Partition coefficient: n octanol/water	log Pow: 1.7 at 25 °C - Bioaccumulation is not expected
	p) Auto-ignition temperature	No data available
	q) Decomposition temperature	No Data Available
	r) Viscosity	No Data Available

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	s) Explosive properties	
	3) Explosive properties	No Data Available
	t) Oxidizing properties	No Data Available
9.2	Other safety informatio	n
	Surface tension 58,38	
	- Regulation (EC) No. 4	140/2008, Annex, A.5
	SECTION 10: Stability a	nd reactivity
10.1	Reactivity	
	The following applies in correspondingly fine dibe assumed.	n general to flammable organic substances and mixtures: in stribution, when whirled up a dust explosion potential may generally
10.2	Chemical stability	
		y stable under standard ambient conditions (room temperature).
10.3	Possibility of hazardou	s reactions
		ible with: strong oxidizing agents
10.4	Conditions to avoid	
	No information available	
10.5	Incompatible materials	
	No data available	
10.6	Hazardous decomposit	ion products
	In the event of fire: see s	
SECT	│ TON 11: Toxicological inf	ormation
11.1	Information on toxicolo	
	Acute toxicity	grout officers
		le - 300 - 2.000 mg/kg
	(OECD Test Guideline	
	Inhalation: No data available	
	1 D T O D 1	
	LD50 Dermal - Rat - m	
	(OECD Test Guideline	402)
		402)
	(OECD Test Guideline of Skin corrosion/irrita Skin - Rabbit Result: No skin irritation	402) <b>tion</b> on - 4 h
	(OECD Test Guideline of Skin corrosion/irrital Skin - Rabbit Result: No skin irritation (OECD Test Guideline of Skin irritation)	402) <b>tion</b> on - 4 h 404)
	(OECD Test Guideline of Skin corrosion/irrita Skin - Rabbit Result: No skin irritation (OECD Test Guideline of Serious eye damage	402) <b>tion</b> on - 4 h 404)
	(OECD Test Guideline of Skin corrosion/irrita Skin - Rabbit Result: No skin irritation (OECD Test Guideline of Serious eye damage Eyes - Rabbit	tion  on - 4 h  404)  /eye irritation
	(OECD Test Guideline of Skin corrosion/irrital Skin - Rabbit Result: No skin irritation (OECD Test Guideline of Serious eye damage Eyes - Rabbit Result: Irreversible eff	tion on - 4 h 404) /eye irritation ects on the eye - 24 h
	(OECD Test Guideline of Skin corrosion/irrita Skin - Rabbit Result: No skin irritation (OECD Test Guideline of Serious eye damage Eyes - Rabbit	tion on - 4 h 404) /eye irritation ects on the eye - 24 h 405)
	(OECD Test Guideline of Skin corrosion/irrital Skin - Rabbit Result: No skin irritation (OECD Test Guideline of Serious eye damage Eyes - Rabbit Result: Irreversible eff (OECD Test Guideline of Respiratory or skin stocal lymph node assa	tion  on - 4 h  404)  /eye irritation  ects on the eye - 24 h  405)  sensitisation
	(OECD Test Guideline Skin corrosion/irrita Skin - Rabbit Result: No skin irritatio (OECD Test Guideline Serious eye damage Eyes - Rabbit Result: Irreversible eff (OECD Test Guideline Respiratory or skin state) Local lymph node assa Result: negative	tion on - 4 h 404) /eye irritation ects on the eye - 24 h 405) sensitisation y (LLNA) - Mouse
	(OECD Test Guideline Skin corrosion/irrita Skin - Rabbit Result: No skin irritatio (OECD Test Guideline Serious eye damage Eyes - Rabbit Result: Irreversible eff (OECD Test Guideline Respiratory or skin state) Local lymph node assa Result: negative (OECD Test Guideline (OECD Test G	tion  on - 4 h  404)  /eye irritation  ects on the eye - 24 h  405)  sensitisation  y (LLNA) - Mouse
	(OECD Test Guideline Skin corrosion/irrita Skin - Rabbit Result: No skin irritatio (OECD Test Guideline Serious eye damage Eyes - Rabbit Result: Irreversible eff (OECD Test Guideline Respiratory or skin state) Local lymph node assa Result: negative (OECD Test Guideline Germ cell mutagenio	tion  on - 4 h  404)  /eye irritation  ects on the eye - 24 h  405)  sensitisation  y (LLNA) - Mouse  429)  ity
	(OECD Test Guideline Skin corrosion/irrita Skin - Rabbit Result: No skin irritatio (OECD Test Guideline Serious eye damage Eyes - Rabbit Result: Irreversible eff (OECD Test Guideline Respiratory or skin state) Local lymph node assa Result: negative (OECD Test Guideline Germ cell mutagenio	tion  on - 4 h  404)  /eye irritation  ects on the eye - 24 h  405)  sensitisation  y (LLNA) - Mouse  429)  iity  ne aberration test in vitro
	(OECD Test Guideline Skin corrosion/irrita Skin - Rabbit Result: No skin irritation (OECD Test Guideline Serious eye damage Eyes - Rabbit Result: Irreversible eff (OECD Test Guideline Respiratory or skin stocal lymph node assa Result: negative (OECD Test Guideline GECD Test Guideline G	tion  on - 4 h  404)  /eye irritation  ects on the eye - 24 h  405)  sensitisation  y (LLNA) - Mouse  429)  ity  ne aberration test in vitro  namster lung cells  with and without metabolic activation
		-l

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Result: negative Test Type: Ames test

Test system: S. typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Carcinogenicity

No data available

Reproductive toxicity

No data available.

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

### 11.2 Additional Information

**Endocrine disrupting properties** 

Product:

**Assessment**: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**Repeated dose toxicity -** Rat - male and female - Gavage - 28 d - NOAEL (No observed adverse effect level) - 50 mg/kg

RTECS: XM8400000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### **SECTION 12: Ecological information**

#### 12.1 Toxicity

Toxicity to fish static test LC50 - Danio rerio (zebra fish) - > 100 mg/l - 96 h (OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (OECD Test Guideline 202)

Toxicity to algae static test ErC50 - Desmodesmus subspicatus (green algae) - > 100 mg/l - 72 h (OECD Test Guideline 201)

Toxicity to bacteria static test EC50 - activated sludge - 737,2 mg/l - 3 h (OECD Test Guideline 209)

#### 12.2 Persistence and degradability

Biodegradability aerobic - Exposure time 28 d Result: 2 % - Not readily biodegradable. (OECD Test Guideline 301D)

#### 12.3 Bio accumulative potential

No data available

## 12.4 | Mobility in soil

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	No data available				
12.5	Results of PBT and vPvB assessment				
	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.				
12.6	Endocrine disrupting properties				
	Product: Assessment: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.				
12.7	Other adverse effects				
	No data available				
SECT	TION 13: Disposal considerations				
13.1	Waste treatment methods				
	Waste treatment methods Product				
	See www.retrologistik.com for processes regarding the return of chemicals and				
	containers, or contact us there if you have fu	urther questions.			
SECT	TION 14: Transport information				
14.1					
	ADR/RID: - IMDG	: - IATA: -			
14.2	2 UN proper shipping name	O'			
	ADR/RID: : Not dangerous goods IMDG: : Not dangerous goods IATA: : Not dangerous goods				
14.3	Transport hazard class(es)				
	ADR/RID: - IMDG:	- IATA: -			
14.4	Packing Group				
	ADR/RID: - IMDG:	- IATA: -			
14.5	Environmental Hazards				
	ADR/RID::no IMDG polluta				
14.6	Special Precautions for User				
	No data available Further information: Not classified as dangerous in the meaning	of transport regulations.			
SECT	TION 15: Regulatory information				

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# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This material safety data sheet complies with the requirements of Regulation (EC) No.1907/2006.

### Other regulations

Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable.

Take note of Dir 94/33/EC on the protection of young people at work.

### 15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

#### SECTION 16: OTHER INFORMATION

### Full text of H-Statements referred to under sections 2 and 3.

H302 Harmful if swallowed.

H318 Causes serious eye damage.

### Further information

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