

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

SAFETY DATA SHEET

SAFETY DATA SHEET				
SECTION 1: Identification of the substance/mixture and of the company/undertaking				
1.1	Product identifiers			
	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 substance or mixture Classification according to Regulation (EC) No 1272/2008 Acute toxicity, Oral (Category 4), H302 Serious eye damage (Category 1), H318 For the full text of the H-Statements mentioned in this Section, see Section 16. Label elements Labelling according Regulation (EC) No 1272/2008 Pictogram Signal word Danger Hazard statement(s) H302 Harmful if swallowed. H318 Causes serious eye damage. Precautionary statement(s) P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear eye protection/ face protection. P301 + P312: IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. P305 + P351 + P338 : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P501: Dispose of contents/ container to an approved waste disposal plant.			
	Supplemental Hazard S	tate	ments : none	
	for breathing. Call a POISON 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
-----	------------

J. I	Substances		
	Synonyms.	:	2-Thiophenecarboxylic acid, 5-chloro-
	Formula	:	C ₅ H ₃ ClO ₂ S
	Molecular weight	:	162.59 g/mol
	CAS-No	:	24065-33-6
	EC Number	:	480-060-6

Component	Classification	Concentration

5-Chlorothiophene-2-carboxylic acid

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 TION 5: Firefighting measures
5.1	Extinguishing media
	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 chamical properties
9.1	7	nysical and chemical properties
011	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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	1				
	s) Explosive properties	No Data Available			
	t) Oxidizing properties	No Data Available			
9.2	Other safety information				
1	Surface tension 58,38 mN/m at 20 °C				
		440/2008, Annex, A.5			
	SECTION 10: Stability a	nd reactivity			
10.1	Reactivity				
	The following applies in	n general to flammable organic substances and mixtures: in			
	be assumed.	stribution, when whirled up a dust explosion potential may generally			
10.2	Chemical stability				
		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				
10.0	No data available				
10.6	Hazardous decomposit	ion products			
10.0	Hazardous decomposition products In the event of fire: see section 5				
SECT	ION 11: Toxicological inf	ormation			
11.1	Information on toxicolo				
	Acute toxicity	igical effects			
	LD50 Oral - Rat - female - 300 - 2,000 mg/kg				
	(OECD Test Guideline 423)				
	Inhalation: No data av				
		ale and female - > 2.000 mg/kg			
	(OECD Test Guideline 4 Skin corrosion/irrita				
	Skin - Rabbit				
	Result: No skin irritation	n - 4 h			
	(OECD Test Guideline				
	Serious eye damage	eye irritation			
	Eyes - Rabbit Result: Irreversible eff	acts on the eye - 24 h			
	(OECD Test Guideline				
	Respiratory or skin sensitisation				
	Local lymph node assa				
	Result: negative	400)			
	(OECD Test Guideline 429)				
	Germ cell mutagenic	ne aberration test in vitro			
	Test system: Chinese I				
	Metabolic activation: with and without metabolic activation				
	Method: OECD Test Gu	ideline 473			

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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 bioaccumulative and toxic (PBT), 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	ION 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 further questions.				
SECT	ION 14: Transport information		*		
14.1	UN number				
	ADR/RID: -	IMDG: -	IATA: -		
14.2	UN proper shipping name	VO,			
	ADR/RID: : Not dangerous goods IMDG: : Not dangerous goods IATA: : Not dangerous goods	EN			
14.3					
	ADR/RID: -	IMDG: -	IATA: -		
14.4	Packing Group				
	ADR/RID: -	IMDG: -	IATA: -		
14.5	Environmental Hazards				
	ADR/RID: no	IMDG Marine pollutant: no	IATA: no		
14.6					
	No data available Further information: Not classified as dangerous in th	ne meaning of transport re	gulations.		
SECT	ION 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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