

SAFETY DATA SHEET

Revision Date 05-Sep-2023

Revision Number 3

1. Identification

Product Name

Thieno[2,3-b]pyridine-2-carbaldehyde

Cat No. :	CC05604CB; CC05604DA; CC05604ZZ

Synonyms No information available

Recommended Use Uses advised against

Laboratory chemicals. Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company

Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

Thermo Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410

Emergency Telephone Number

For information US call: 001-800-227-6701 / Europe call: +32 14 57 52 11 Emergency Number US:001-201-796-7100 / Europe: +32 14 57 52 99 CHEMTREC Tel. No. US:001-800-424-9300 / Europe:001-703-527-3887

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Specific target organ toxicity (single exposure) Target Organs - Respiratory system.

Category 4 Category 2 Category 2 Category 3

Label Elements

Signal Word Warning

Hazard Statements Harmful if swallowed Causes skin irritation Causes serious eye irritation May cause respiratory irritation



Precautionary Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face protection

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

Skin

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

Eves

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Storage

Store in a well-ventilated place. Keep container tightly closed

Store locked up

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients

Component		CAS No	Weight %				
Thieno[2,3-b]pyridine-2-carbaldehyde53174-98-4> 97							
	4. Fir	st-aid measures					
General Advice	If symptoms pers	If symptoms persist, call a physician.					
Eye Contact		Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.					
Skin Contact	Wash off immedi call a physician.	mediately with plenty of water for at least 15 minutes. If skin irritation persists cian.					
Inhalation	Remove to fresh symptoms occur.	air. If not breathing, give artificial re	espiration. Get medical attention if				

Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.
Most important symptoms and	None reasonably foreseeable.
effects Notes to Physician	Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media	Water spray. Carbon dioxide (CO 2). Dry chemical. Chemical foam.
Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	No information available
Upper	NE LA STAT
Opper	No data available
Lower	No data available No data available
	No data available

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO₂). Sulfur oxides.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA Health 2	Flammability 1	Instability 0	Physical hazards N/A					
	6. Accidental re	lease measures						
Personal Precautions	Ensure adequate ventilation formation.	n. Use personal protective equ	ipment as required. Avoid dust					
Environmental Precautions	Should not be released internation.	o the environment. See Sectior	12 for additional Ecological					
Methods for Containment and Clea Up	Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed Up containers for disposal.							
	7. Handling	and storage						
Handling	• •	equipment/face protection. Ensu clothing. Avoid ingestion and in	ure adequate ventilation. Do not halation. Avoid dust formation.					
Storage.		II-ventilated place. Keep contai g agents. Strong bases. Strong	ner tightly closed. Incompatible reducing agents.					
8. E	xposure controls	/ personal protection	on					
Exposure Guidelines		ain any hazardous materials wi gion specific regulatory bodies.	ith occupational exposure					

Engineering Measures	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Recommended Filter type:	Particulates filter conforming to EN 143.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

7.11195100	r and chernical properties
Physical State	Solid
Appearance	Yellow
Odor	No information available
Odor Threshold	No information available
pH	No information available
Melting Point/Range	142 - 143 °C / 287.6 - 289.4 °F
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C8 H5 N O S
Molecular Weight	163.2
-	

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Incompatible products.
Incompatible Materials	Strong oxidizing agents, Strong bases, Strong reducing agents
Hazardous Decomposition Product	s Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO ₂), Sulfur oxides
Hazardous Polymerization	No information available.

Hazardous Reactions

None under normal processing.

11. Toxicological information

Acute Toxicity												
Product Information Component Informat Toxicologically Syne Products Delayed and immedi	ergistic	No information ava		d long-term expo	sure_							
Irritation		No information ava	o information available									
Sensitization		No information ava	o information available									
Carcinogenicity		The table below inc	he table below indicates whether each agency has listed any ingredient as a carcinogen.									
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico						
Thieno[2,3-b]pyridine- 2-carbaldehyde	53174-98-4	Not listed										
Mutagenic Effects		No information ava	ilable									
Reproductive Effects	5	No information ava	ilable.									
Developmental Effect	ts	No information ava	ilable.									
Teratogenicity		No information ava	ilable.									
STOT - single expos STOT - repeated exp		Respiratory system None known										
Aspiration hazard		No information available										
Symptoms / effects, delayed	both acute and	d No information available										
Endocrine Disruptor	Information	No information ava	ilable									
Other Adverse Effec	ts	The toxicological p	roperties have not	been fully investig	ated.							
12. Ecological information												
Ecotoxicity Do not empty into drai	ins.											
Persistence and Deg	Iradability	Insoluble in water										
Bioaccumulation/ Ac	cumulation	No information ava	ilable.									
Mobility		Is not likely mobile	in the environmen	t due its low water	solubility.							
		13. Dispo	sal conside	erations								
Waste Disposal Meth	nods	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.										
			sport inforr	mation								
DOT		Not regulated										

_ <u>TDG</u> IATA IMDG/IMO_	Not regulated Not regulated Not regulated	
	15. Regulatory information	

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Thieno[2,3-b]pyridine-2-carbaldeh yde	53174-98-4	-	-	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Not applicable Substances & Mixtures, Under TSCA Section 6(h) (PBT)

TSCA 12(b) - Notices of Export

Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Thieno[2,3-b]pyridine-2-carbaldeh	53174-98-4	-	-	-	-	-		-	-	-
yde										

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chemicals.
California Proposition 65 U.S. State Right-to-Know Regulations	This product does not contain any Proposition 65 chemicals. Not applicable
U.S. State Right-to-Know	

Security

Other International Regulations

Mexico - Grade

No information available

Authorisation/Restrictions according to EU REACH

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	5	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Thieno[2,3-b]pyridine-2-carbaldehyd	53174-98-4	-	-	-

Not applicable

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

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Thieno[2,3-b]pyridine-2-carbal dehyde	53174-98-4	Not applicable	Not applicable	Not applicable	Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

Other International Regulations

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Convention (PIC)	Basel Convention (Hazardous Waste)
Thieno[2,3-b]pyridine-2-carbal dehyde	53174-98-4	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information
Prepared By	Regulatory Affairs
	Thermo Fisher Scientific
	Email: EMSDS.RA@thermofisher.com
Revision Date	05-Sep-2023
Print Date	05-Sep-2023
Revision Summary	This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS