

SAFETY DATA SHEET

Creation Date 19-Sep-2014

Revision Date 05-Sep-2023

Revision Number 2

1. Identification

Product Name

4-Methyl-4H-thieno[3,2-b]pyrrole-5-carbaldehyde

CC40904CB; CC40904DA; CC40904ZZ Cat No. :

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

Response

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

Inhalation

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

Skin

IF ON SKIN: Wash with plenty of soap and water

Take off contaminated clothing and wash before reuse

If skin irritation occurs: Get medical advice/attention

Eyes

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

Rinse mouth

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

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 %		
4-Methyl-4H-thieno[3,2-b	o]pyrrole-5-carbaldehyde	121933-60-6	> 97		
	4. Fi	rst-aid measures			
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.				
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention.				
Inhalation	Remove from exposure, lie down. Remove to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention.				

Ingestion	Do NOT induce vomiting.	Set medical attention.		
Most important symptoms and effects	No information available.			
Notes to Physician	Treat symptomatically			
	5. Fire-fightir	ng measures		
Suitable Extinguishing Media	Water spray. Carbon dioxid	de (CO ₂). Dry chemical. Cher	nical foam.	
Jnsuitable Extinguishing Media	No information available			
Flash Point Method -	No information available No information available			
Autoignition Temperature	No information available			
Explosion Limits Upper	No data available			
Lower Sensitivity to Mechanical Impa	No data available ct No information available			
Sensitivity to Static Discharge				
Specific Hazards Arising from the	Chemical way from heat and sources of	ignition		
Hazardous Combustion Products Nitrogen oxides (NOx). Carbon mono Protective Equipment and Precaut	oxide (CO). Carbon dioxide (C ions for Firefighters	O ₂). Sulfur oxides.	oved or equivalent) and full	
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Hazardous Combustion Products Nitrogen oxides (NOx). Carbon mono Protective Equipment and Precaut As in any fire, wear self-contained br protective gear. NFPA Health	Exide (CO). Carbon dioxide (C ions for Firefighters eathing apparatus pressure-d Flammability 1 6. Accidental re Ensure adequate ventilation See Section 12 for addition an Sweep up and shovel into environment. Avoid dust for 7. Handling Wear personal protective environment skin and eyes	Co2). Sulfur oxides. emand, MSHA/NIOSH (appro Instability 0 Case measures n. Use personal protective eq nal Ecological Information. suitable containers for dispos rmation. Use spark-proof tool and storage quipment/face protection. En	Physical hazards N/A uipment as required. al. Do not let this chemical enter the s and explosion-proof equipment. sure adequate ventilation. Avoid breathe mist/vapors/spray. Do not	
Hazardous Combustion Products Nitrogen oxides (NOx). Carbon mono Protective Equipment and Precaut As in any fire, wear self-contained br protective gear. NFPA Health 2 Personal Precautions Environmental Precautions Methods for Containment and Clear Up	Exide (CO). Carbon dioxide (C ions for Firefighters eathing apparatus pressure-d Flammability 1 6. Accidental re Ensure adequate ventilation See Section 12 for addition an Sweep up and shovel into environment. Avoid dust for 7. Handling Wear personal protective environment skin and eyes ingest. If swallowed then so Keep in a dry, cool and we	CO2). Sulfur oxides. emand, MSHA/NIOSH (appro Instability 0 CO2 CO2 CO2 CO2 CO2 CO2 CO2 CO2 CO2 CO2	Physical hazards N/A uipment as required. al. Do not let this chemical enter the s and explosion-proof equipment. sure adequate ventilation. Avoid breathe mist/vapors/spray. Do not ance. ainer tightly closed. Incompatible	
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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.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Phy	sical and chemical properties
Physical State	Solid
Appearance	Grey
Odor	No information available
Odor Threshold	No information available
рН	No information available
Melting Point/Range	63 - 64 °C / 145.4 - 147.2 °F
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	No information available
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	No information available
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	No information available
Molecular Formula	C8 H7 N O S
Molecular Weight	165.22
1/	0 Stability and reactivity

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 Produc	ts Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2), Sulfur oxides
Hazardous Polymerization	No information available.
Hazardous Reactions	None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information Component Information	No acute toxicity information is available for this product
Toxicologically Synergistic	No information available
Products Delayed and immediate effects as w	ell as chronic effects from short and long-term exposure
Irritation	No information available

Sensitization No information available

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico		
4-Methyl-4H-thieno[3,2	121933-60-6	Not listed	Not listed	Not listed	Not listed	Not listed		
-b]pyrrole-5-carbaldeh vde								
Mutagenic Effects		No information ava	ailable					
Reproductive Effect	s	No information ava	ailable.					
Developmental Effe	cts	No information ava	ailable.					
Teratogenicity		No information ava	ailable.					
STOT - single expos STOT - repeated exp		Respiratory system None known						
Aspiration hazard		No information available						
Symptoms / effects,both acute and delayed		No information available						
Endocrine Disruptor	Endocrine Disruptor Information		No information available					
Other Adverse Effects		The toxicological properties have not been fully investigated.						
		12. Ecol	ogical infor	mation				
Ecotoxicity Do not empty into dra	ins.							

Persistence and Degradability	No information available
Bioaccumulation/ Accumulation	No information available.
Mobility	No information available.

13. Disposal considerations

Waste Disposal Methods

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.

	14. Transport information
DOT	Not regulated
DOT 	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated
	15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
4-Methyl-4H-thieno[3,2-b]pyrrole-5 -carbaldehyde	121933-60-6	-	-	-

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 ChemicalNot applicableSubstances & 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
4-Methyl-4H-thieno[3,2-b]pyrrole-5	121933-60-6	-	-	-	-	-		-	-	-
-carbaldehyde										

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.
U.S. State Right-to-Know Regulations	Not applicable
U.S. Department of Transportation Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	
Mexico - Grade	No information available

Authorisation/Restrictions according to EU REACH

Not applicable

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	U U	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
4-Methyl-4H-thieno[3,2-b]pyrrole-5-c arbaldehyde	121933-60-6	-	-	-

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)
4-Methyl-4H-thieno[3,2-b]pyrr ole-5-carbaldehyde	121933-60-6	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	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
4-Methyl-4H-thieno[3,2-b]pyrr ole-5-carbaldehyde	121933-60-6	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information		
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com	
Creation Date Revision Date Print Date Revision Summary	19-Sep-2014 05-Sep-2023 05-Sep-2023 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