

SAFETY DATA SHEET

Creation Date 19-Feb-2009

Revision Date 05-Sep-2023

Revision Number 3

1. Identification

Product Name

4-{ [3-(Chloromethyl)isoxazol-5-yl]methyl} morpholine

CC70824CB; CC70824DA; CC70824ZZ 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

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

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

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 %
4-{ [3-(Chloromethyl)isoxazol-5-yl]methyl}	953408-97-4	80
morpholine		

4. First-aid measures			
General Advice	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 immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.		
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.		

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

5. Fire-fighting measures

Suitable Extinguishing Media	Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.
Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impac	
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical

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

Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO₂). Nitrogen oxides (NOx). Chlorine. Hydrogen chloride gas.

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.

<u>NFPA</u> Health 2	Flammability 1	Instability 0	Physical hazards N/A
	6. Accidental re	lease measures	
Personal Precautions Environmental Precautions	tions Ensure adequate ventilation. Use personal protective equipment as required. Should not be released into the environment. See Section 12 for additional Ecological Information.		

Methods for Containment and Clean Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Up

	7. Handling and storage	
HandlingWear personal protective equipment/face protection. Ensure adequate ventilation. Do get in eyes, on skin, or on clothing. Avoid ingestion and inhalation.		
Storage.Keep containers tightly closed in a dry, cool and well-ventilated place. Keep refrigeratIncompatible Materials.Strong oxidizing agents. Strong acids. Strong reducing agent		
8. Exposure controls / personal protection		
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure	

Engineering Measures	Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.	
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:	Organic gases and vapours filter. Type A. Brown. conforming to EN14387.	
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.	

9. Physical and chemical properties

Physical State	Liquid
Appearance	Light yellow
Odor	Characteristic
Odor Threshold	No information available
рН	No information available
Melting Point/Range	No data available
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	No information available
Flammability (solid,gas)	Not applicable
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	C9 H13 CI N2 O2
Molecular Weight	216.67

10. Stability and reactivity

Reactive Hazard	None known, based on information available	
Stability	Stable under normal conditions.	
Conditions to Avoid	Incompatible products. Excess heat.	
Incompatible Materials	Strong oxidizing agents, Strong acids, Strong reducing agents	
Hazardous Decomposition Product	s Carbon monoxide (CO), Carbon dioxide (CO ₂), Nitrogen oxides (NOx), Chlorine, Hydrogen chloride gas	
Hazardous Polymerization	Hazardous polymerization does not occur.	
Hazardous Reactions	None under normal processing.	

11. Toxicological information

Acute Toxicity	
Product Information	
Oral LD50	Category 4. ATE = 300 - 2000 mg/kg.
Dermal LD50	Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.
Vapor LC50	Based on ATE data, the classification criteria are not met. ATE > 20 mg/l.
Component Information	
Toxicologically Synergistic	No information available
Products	
Delayed and immediate effects as	s well 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-{	953408-97-4	Not listed	Not listed	Not listed	Not listed	Not listed	
[3-(Chloromethyl)isoxa							
zol-5-yl]methyl} morpholine							
Mutagenic Effects		No information available					
Reproductive Effect	S	No information available.					
Developmental Effe	cts	No information ava	ailable.				
Teratogenicity		No information ava	ailable.				
STOT - single expos STOT - repeated exp		Respiratory system e None known					
Aspiration hazard		No information available					
Symptoms / effects delayed	,both acute and	nd No information available					
Endocrine Disrupto	sruptor Information No information available						
Other Adverse Effects The toxico		The toxicological p	e toxicological properties have not been fully investigated.				
		12. Ecol	ogical infor	mation			
Ecotoxicity Do not empty into dra	ains.						
Persistence and De	gradability	No information ava	ailable				
Bioaccumulation/ A	ccumulation	No information available.					
Mobility		No information available.					
		13. Dispo	sal conside	erations			
Waste Disposal Met	hods	Chemical waste generators must determine whether a discarded chemical is classified as hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.			gional, and		

	14. Transport information
DOT	
UN-No	UN2810
Proper Shipping Name	Toxic liquid, organic, n.o.s.
Technical Name	4-{ [3-(Chloromethyl)isoxazol-5-yl]methyl} morpholine
Hazard Class	6.1
Packing Group	III
TDG	
UN-No	UN2810
Proper Shipping Name	Toxic liquid, organic, n.o.s.
Hazard Class	6.1
Packing Group	III
UN-No	UN2810
Proper Shipping Name	Toxic liquid, organic, n.o.s.
Hazard Class	6.1
Packing Group	III
IMDG/IMO	
UN-No	UN2810
Proper Shipping Name	Toxic liquid, organic, n.o.s.
Hazard Class	6.1
Packing Group	
	15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
4-{	953408-97-4	-	-	-
[3-(Chloromethyl)isoxazol-5-yl]met				
hyl} morpholine				

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 Substances & Mixtures, Under TSCA Section 6(h) (PBT)

TSCA 12(b) - Notices of Export

Not applicable

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-{	953408-97-4	-	-	-	-	-		-	-	-
[3-(Chloromethyl)isoxazol-5-yl]met										
hyl} morpholine										

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

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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	5	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
4-{ [3-(Chloromethyl)isoxazol-5-yl]meth yl} morpholine	953408-97-4	-	-	-

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-{	953408-97-4	Not applicable	Not applicable	Not applicable	Not applicable
[3-(Chloromethyl)isoxazol-5-yl					
]methyl} morpholine					

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

Other International Regulations

ſ	Component	CAS No	Seveso III Directive (2012/18/EC) -	Seveso III Directive (2012/18/EC) -	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
			Qualifying Quantities	, ,		
			for Major Accident	for Safety Report		
			Notification	Requirements		
	4-{	953408-97-4	Not applicable	Not applicable	Not applicable	Not applicable

[3-(Chloromethyl)isoxazol-5-yl			
Imethyl} morpholine			
jinearyij morpholine			

	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific
	Email: EMSDS.RA@thermofisher.com
Creation Date	19-Feb-2009
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