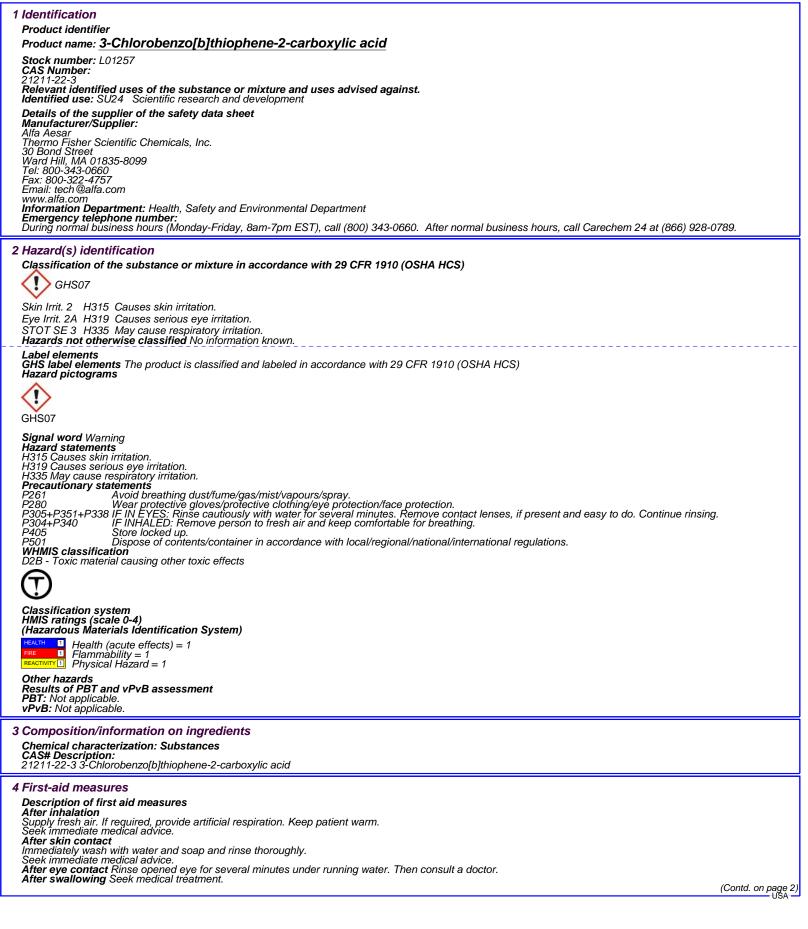


Safety Data Sheet per OSHA HazCom 2012



## Product name: 3-Chlorobenzo[b]thiophene-2-carboxylic acid

Information for doctor		(Contd. of page 1)
Most important symptoms and effects	<b>s, both acute and delayed</b> No further relevant information available. <b>attention and special treatment needed</b> No further relevant information available.	
5 Fire-fighting measures Extinguishing media		
Suitable extinguishing agents Carbon Special hazards arising from the sub-	n dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. stance or mixture illowing can be released:	
Carbon monoxide and carbon dioxide	llowing can be released:	
Hydrogen chloride (HCl) Sulfur oxides (SOx)		
Advice for firefighters Protective equipment:		
Wear self-contained respirator. Wear fully protective impervious suit.		
6 Accidental release measures		
Personal precautions, protective equi	ipment and emergency procedures	
Wear protective equipment. Keep unpro Ensure adequate ventilation		
Methods and material for containmen Prevention of secondary hazards: No	low material to be released to the environment without proper governmental permits. <b>t and cleaning up:</b> Ensure adequate ventilation. • encode management required required to the second	
Reference to other sections		
See Section 7 for information on safe has See Section 8 for information on person See Section 13 for disposal information.	al protection equipment.	
7 Handling and storage Handling		
<b>Precautions for safe handling</b> Keep container tightly sealed.		
Store in cool, dry place in tightly closed Ensure good ventilation at the workplace	containers. e.	
Information about protection against Conditions for safe storage, including	explosions and fires: No information known.	
Storage	ns and receptacles: No special requirements.	
	nmon storage facility: Store away from oxidizing agents	
Keep container tightly sealed.		
Store in cool, dry conditions in well seal <b>Specific end use(s)</b> No further relevant	t information available.	
8 Exposure controls/personal prote		
Additional information about design of Properly operating chemical fume hood	or technical systems: designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.	
Control parameters Components with limit values that red	guire monitoring at the workplace: Not required.	
	quire monitoring at the workplace: Not required.	
Exposure controls Personal protective equipment General protective and hygienic meas		
The usual precautionary measures for h	nandling chemicals should be followed.	
Keep away from foodstuffs, beverages a Remove all soiled and contaminated clo Wash hands before breaks and at the e	and reed. thing immediately. nd di work	
Avoid contact with the eyes and skin. Maintain an ergonomically appropriate v		
Breathing equipment: Use suitable res Protection of hands:	spirator when high concentrations are present.	
Impervious gloves Check protective gloves prior to each us	se for their proper condition.	
The selection of suitable gloves not only Penetration time of glove material (in	/ depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.	
Eye protection: Safety glasses Body protection: Protective work clothi		
9 Physical and chemical properties	5	
Information on basic physical and ch		
General Information Appearance: Form:	Powdor	
Color: Odor:	Powder White Not determined	
Odor threshold:	Not determined.	
pH-value: Change in condition	Not applicable.	
Melting point/Melting range: Boiling point/Boiling range:	265-267 °C (509-513 °F) Not determined	
Sublimation temperature / start:	Not determined	
Flash point: Flammability (solid, gaseous)	Not applicable Not determined	
Ignition temperature: Decomposition temperature:	Not determined Not determined	
		(Contd. on page 3) USA —

## Product name: 3-Chlorobenzo[b]thiophene-2-carboxylic acid

• •		
Auto igniting:	Not determined.	(Contd. of page 2)
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits: Lower:	Not determined	
Upper:	Not determined	
Vapor pressure: Density:	Not applicable. Not determined	
Relative density Vapor density	Not determined. Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with Water:	Insoluble	
Partition coefficient (n-octanol/water) Viscosity:	Not determined.	
dynamic: kinematic:	Not applicable. Not applicable.	
Other information	No further relevant information available.	
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recomm Thermal decomposition / conditions to Possibility of hazardous reactions No Conditions to avoid No further relevan Incompatible materials: Oxidizing age Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen chloride (HCI) Sulfur oxides (SOx)	<b>b be avoided:</b> Decomposition will not occur if used and stored according to specifications. dangerous reactions known information available.	
Reproductive toxicity: No effects know Specific target organ system toxicity Specific target organ system toxicity Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect	in irritation. ious eye irritation. wm. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACG n. • <b>repeated exposure:</b> No effects known. • <b>single exposure:</b> May cause respiratory irritation.	IH.
12 Ecological information Toxicity Aquatic toxicity: No further relevant inf Persistence and degradability No furth Bioaccumulative potential No further r Mobility in soil No further relevant infor Additional ecological information: General notes: Do not allow material to be released to t Avoid transfer into the environment. Results of PBT and vPvB assessmen PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevation	er relevant information available. elevant information available. mation available. ne environment without proper governmental permits.	
13 Disposal considerations		
Waste treatment methods		
	r national regulations to ensure proper disposal. ade according to official regulations.	
<b>14 Transport information</b> Not a hazardous material for transportat		
UN-Number DOT, IMDG, IATA	None	
UN proper shipping name		
DOŤ, IMDG, IAŤA Transport hazard class(es)	None	
DOT, ADR, IMDG, IATA		
Class	None	
Packing group DOT, IMDG, IATA	None	
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable.	
	II of MARPOL73/78 and the IBC Code Not applicable.	
Transport/Additional information:	Not dangerous according to the above specifications.	(Contd. on page 4)
		(Soma. on page +)

(Contd. on page 4)

roduct name: 3-Chlorobenzo[b]thiophene-2-carboxylic acid (Contd. of pag		
DOT		
Marine Pollutant (DOT):	No	
	tions/legislation specific for the substance or mixture ied and labeled in accordance with 29 CFR 1910 (OSHA HCS)	
GHS07		
P280       Wear protective gloves/ P305+P351+P338 IF IN EYES: Rinse cauti P304+P340         P305       Store locked up.         P501       Dispose of contents/cont	ncer Substance is not listed. nce is not listed. Substance is not listed. Jubstance is not listed. Juse only by technically qualified individuals.	
information to ensure proper use and prote conformance with this Material Safety Data	as a supplement to other information gathered by them, and should make independent judgement of suitability of this ct the health and safety of employees. This information is furnished without warranty, and any use of the product not Sheet, or in combination with any other product or process, is the responsibility of the user.	
IATA: International Air Transport Association (ATX: International Air Transport Association CAS: Chemical Abstracts Service (division of the America HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information Sys	2015 / - marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ational Air Transport Association" (IATA) Aviation Organization" (ICAO) n Chemical Society) tem (Canada)	
LCSU: Lethal concentration, 50 percent LDSU: Lethal cose, 50 percent VPVB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industria. OSHA: Occupational Safety and Health Administration (L NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	Hygienists (USA) SA)	