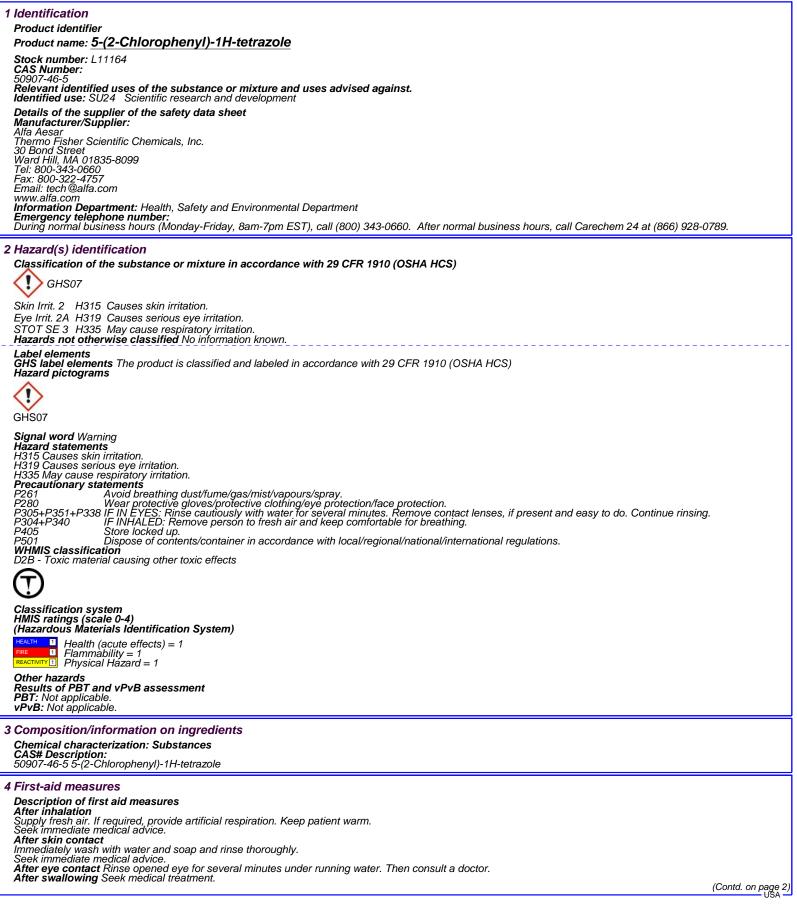


Safety Data Sheet per OSHA HazCom 2012



Product name: 5-(2-Chlorophenyl)-1H-tetrazole (Contd. of page 1) Information for doctor Most important symptoms and effects, both acute and delayed No further relevant information available. Indication of any immediate medical attention and special treatment needed No further relevant information available. 5 Fire-fighting measures Extinguishing media Extinguishing media Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide Hydrogen chloride (HCI) Nitrogen oxides (NOX) Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit. 6 Accidental release measures Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Ensure adequate ventilation. Prevention of secondary hazards: No special measures required. Reference to other sections See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information. 7 Handling and storage Handling Precautions for safe handling Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Information about protection against explosions and fires: No information known. Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Store away from oxidizing agents. Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Specific end use(s) No further relevant information available. 8 Exposure controls/personal protection Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. Control parameters Components with limit values that require monitoring at the workplace: Not required. Additional information: No data Exposure controls Personal protective equipment General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Protection of hands: Impervious gloves The selection of suitable gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. Penetration time of glove material (in minutes) Not determined Eye protection: Safety glasses Body protection: Protective work clothing. 9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Solid Color: White Odor: Not determined Odor threshold: Not determined pH-value: Not applicable. Change in condition 179-180 °C (354-356 °F) Not determined Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Not determined Flash point: Not applicable Flammability (solid, gaseous) Not determined Ignition temperature: Decomposition temperature: Not determined Not determined (Contd. on page 3)

Product name: 5-(2-Chlorophenyl)-1H-tetrazole

Product name: 5-(2-Chlorophenyl)-	1H-tetrazole	
		(Contd. of page 2)
Auto igniting:	Not determined. Breduct deep net present on evelopien bezerd	
Danger of explosion: Explosion limits:	Product does not present an explosion hazard.	
Lower: Upper:	Not determined 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:		
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 recom Thermal decomposition / conditions Possibility of hazardous reactions No Conditions to avoid No further relevar Incompatible materials: Oxidizing age Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen chloride (HCl) Nitrogen oxides	ant information available. ents	
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 effe	r classification: No data skin irritation. serious eye irritation. nown. a on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. own. y - repeated exposure: No effects known. y - single exposure: May cause respiratory irritation.	
12 Ecological information Toxicity Aquatic toxicity: No further relevant in Persistence and degradability No further Bioaccumulative potential No further Mobility in soil No further relevant info Additional ecological information: General notes: Do not allow material to be released to Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant	rther relevant information available. r relevant information available. ormation available. o the environment without proper governmental permits. ent	
13 Disposal considerations		
Waste treatment methods	l or national regulations to ensure proper disposal. made according to official regulations.	
14 Transport information Not a hazardous material for transporta UN-Number	ation.	
DOT, IMDG, IATA	None	
UN proper shipping name DOT, IMDG, IATA	None	
Transport hazard class(es)		
DOT, ADR, IMDG, IATA Class	None	
Packing group DOT, IMDG, IATA	None	
Environmental hazards:	None Not applicable.	
Special precautions for user	Not applicable.	
· · · · · · · · · · · · · · · · · · ·	ex II of MARPOL73/78 and the IBC Code Not applicable.	
Transport/Additional information:	Not dangerous according to the above specifications.	(Contri on pogo 4)
		(Contd. on page 4)

(Contd. on page 4)

	(Contd. of pag
DOT Marine Pollutant (DOT):	No
Regulatory information Safety, health and environmental regulation GHS label elements The product is classified a Hazard pictograms	s/legislation specific for the substance or mixture and labeled in accordance with 29 CFR 1910 (OSHA HCS)
GHS07 Signal word Warning Hazard statements H315 Causes skin irritation. H319 Causes serious eye irritation. H325 May cause respiratory irritation. Precautionary statements P261 Avoid breathing dust/fume/g P280 Wear protective gloves/prote P305+P351+P338 IF IN EYES: Rinse cautious	ras/mist/vapours/spray. ective clothing/eye protection/face protection. ly with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304+P340 IF INHALED: Remove perso P405 Store locked up.	on to fresh air and keep comfortable for breathing. er in accordance with local/regional/national/international regulations.
to research and development only. This produc	Substance is not listed. is not listed.
Prop 65 - Developmental toxicity, male Subs Information about limitation of use: For use of Other regulations, limitations and prohibitiv Substance of Very High Concern (SVHC) act The conditions of restrictions according to a market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requi	itance is not listed. only by technically qualified individuals. e regulations cording to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on t iring Authorisation for use) Substance is not listed.
Chemical safety assessment: A Chemical Sa	fety Assessment has not been carried out.
information to ensure proper use and protect th	a supplement to other information gathered by them, and should make independent judgement of suitability of this The health and safety of employees. This information is furnished without warranty, and any use of the product not i The product of process, is the responsibility of the user.
Department issuing SDS: Global Marketing D Date of preparation / last revision 11/24/2015 Abbreviations and acronyms: RID: Regement international concernant le transport des marc	5/-
ATA-DGR. Dangerous Goods Requirations by the International ICAO: International Civil Aviation Organization ICAO:TI: Technical Instructions by the "International Civil Aviat IMDG: International Antitime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association	chandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) al Air Transport Association" (IATA) tion Organization" (ICAO)
DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Ch HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent vPUB: very Persistent and very Bioaccumulative	əmical Society) Canada)
LC30: Letnal concentration, 30 percent LD50: Lethal dose, 50 percent vPVB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygi OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	enists (USA)