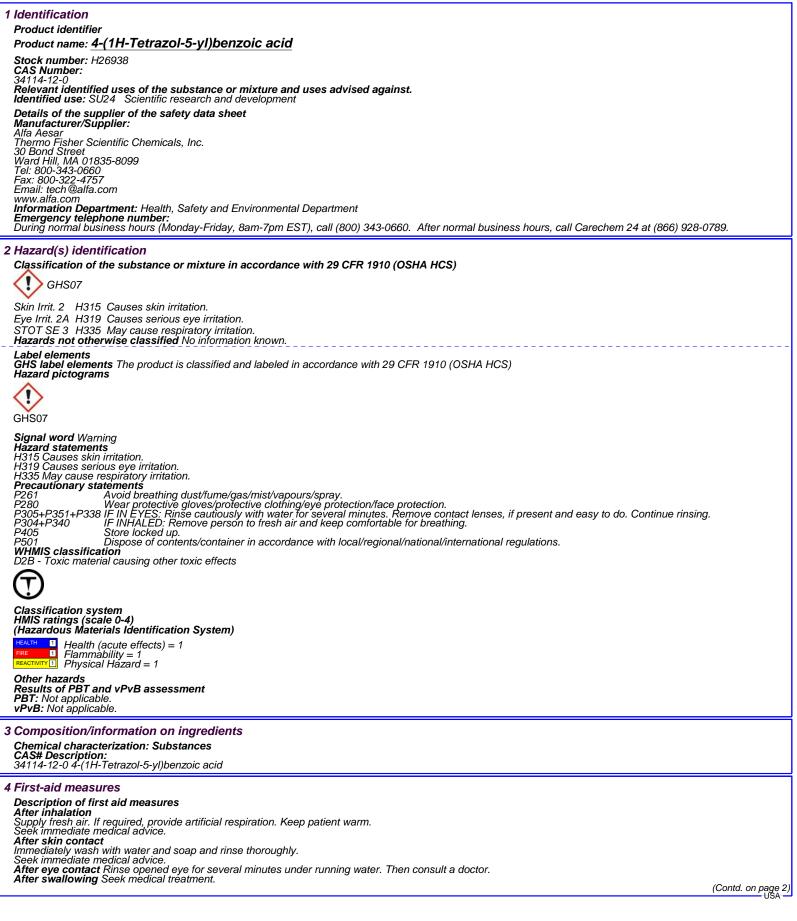


Safety Data Sheet per OSHA HazCom 2012



Product name: 4-(1H-Tetrazol-5-yl)benzoic acid (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 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 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 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 Check protective 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: Color: Powder White Odor: Not determined Odor threshold: Not determined pH-value: Not applicable Change in condition Melting point/Melting range: >300 °C (>572 °F) Not determined Boiling point/Boiling range: Sublimation temperature / start: Not determined Flash point: Not applicable Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Not determined. Not determined Not determined (Contd. on page 3)

Product name: 4-(1H-Tetrazol-5-yl)benzoic acid

Page 3/4 Printing date 11/24/2015 Reviewed on 12/15/2009

Product name: 4-(1H-Tetrazol-5-yl)b	enzoic acid	
		(Contd. of page 2)
Auto igniting:	Not determined.	
Danger of explosion: Explosion limits: Lower: Upper:	Product does not present an explosion hazard. 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:	Not determined	
Partition coefficient (n-octanol/water)	: Not determined.	
Viscosity: dynamic:	Not applicable.	
kinematic: Other information	Not applicable. No further relevant information available.	
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recom 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 Nitrogen oxides	t 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 effec	kin irritation. rious eye irritation. own. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. vn. - repeated exposure: No effects known. - single exposure: May cause respiratory irritation.	
	her relevant information available. elevant information available. mation available. he environment without proper governmental permits. quantities to reach ground water, water course or sewage system. t	
13 Disposal considerations Waste treatment methods Recommendation Consult state, local of Uncleaned packagings: Recommendation: Disposal must be m	or national regulations to ensure proper disposal. nade according to official regulations.	
14 Transport information Not a hazardous material for transportat UN-Number	ion.	
DOT, ÎMDĜ, IATA	None	
UN proper shipping name DOT, IMDG, IATA	None	
Transport hazard class(es)		
DOT, ADR, IMDG, IATA	None	
Class Packing group DOT, IMDG, IATA	None	
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable.	
	I of MARPOL73/78 and the IBC Code Not applicable.	
Transport/Additional information:	Not dangerous according to the above specifications.	(Contd. on page 4)

(Contd. on page 4)

	(Contd. of pag
DOT	
Marine Pollutant (DOT):	No
Regulatory information	
Safety, health and environmental regulatio	ons/legislation specific for the substance or mixture d and labeled in accordance with 29 CFR 1910 (OSHA HCS)
GHS07	
P405 Store locked up. P501 Dispose of contents/contai National regulations This product is not listed in the U.S. Environm to research and development only. This produ product must not be used for commercial purp SARA Section 313 (specific toxic chemical	e/gas/mist/vapours/spray. otective clothing/eye protection/face protection. usly with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. rson to fresh air and keep comfortable for breathing. ainer in accordance with local/regional/national/international regulations. mental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restric uct must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This poses or in formulations for commercial purposes.
California Proposition 65 Prop 65 - Chemicals known to cause cance Prop 65 - Developmental toxicity Substance Prop 65 - Developmental toxicity, female Sub nformation about limitation of use: For use Other regulations, limitations and prohibiti Substance of Very High Concern (SVHC) a The conditions of restrictions according to market and use must be observed. Substance is not listed.	er Substance is not listed. Substance is not listed. Substance is not listed.
Other information	
Employers should use this information only as	s 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 Sheet, or in combination with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing Date of preparation / last revision 11/24/20 Abbreviations and acronyms:	Department 115 / -
RID: Règlement international concernant le transport des ma ATA-DGR: Dangerous Goods Regulations by the "Internatio CAO: International Civil Aviation Organization	archandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) onal Air Transport Association" (IATA) viation Organization" (ICAO)
CAO-11: Technical Instructions by the "International Civil AV, MDG: International Maritime Code for Dangerous Goods 20T: US Department of Transportation ATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American C MMS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System .C50: Lethal concentration, 50 percent .D50: Lethal cons.	Chemical Society) m (Canada)
LD50: Lethal dose, 50 percent PVB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hy OSHA: Occupational Safety and Health Administration (USA) VTP: National Toxicology Program (USA) ARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	