



1 Identification
Product identifier Breduct name: 1H-Totrazolo-5-carboxylic acid otbyl oster sodium salt
Product name: 1H-Tetrazole-5-carboxylic acid ethyl ester,sodium salt Stock number: B23461
CAS Number: 96107-94-7
Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development
Details of the supplier of the safety data sheet Manufacturer/Supplier:
Manufacturer/Supplier: Alfa Aesar Thermo Fisher Scientific Chemicals, Inc.
30 Bond Street Ward Hill. MA 01835-8099
Tel: 800-343-0660
Fax: 800-322-4757 Email: tech@alfa.com www.alfa.com
Information Department: Health, Safety and Environmental Department Emergency telephone number: During neuronal business hours (Mandau Fridau Sam Tam EST), call (900) 242,0550, After normal business hours, call Caracham 24 at (955) 009,0700
During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.
2 Hazard(s) identification Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)
GHS02 Flame
Flam. Sol. 2 H228 Flammable solid.
Hazards not otherwise classified No information known.
Label elements GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms
GHS02
Signal word Warning Hazard statements H228 Flammable solid. Precautionary statements P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P280 Wear protective gloves/protective clothing/eye protection/face protection. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting/equipment. P370+P378 In case of fire: Use for extinction: CO2, powder or water spray. WHMIS classification B4
Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) HEALTH I Health (acute effects) = 1 Flammability = 2 Physical Hazard = 1
Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.
3 Composition/information on ingredients
Chemical characterization: Substances CAS# Description:
96107-94-7 1H-Tetrazole-5-carboxylic acid ethyl ester, sodium salt
4 First-aid measures
Description of first aid measures After inhalation Supply freed ar, if required, provide artificial respiration. Keen patient warm
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. After skin contact
After skin contact Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice.
After sycallowing Seek medical treatment.
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.

Product name: 1H-Tetrazole-5-carboxylic acid ethyl ester, sodium salt

(Contd. of page 1)

		(Contd. of page 1)
5 Fire-fighting measures Extinguishing media Suitable extinguishing agents Use ca Special hazards arising from the sub- If this product is involved in a fire, the fo Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Sodium oxide Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.		d containers.
6 Accidental release measures Personal precautions, protective equ Wear protective equipment. Keep unpro- Ensure adequate ventilation Keep away from ignition sources Environmental precautions: Do not al Methods and material for containment Keep away from ignition sources. Ensure adequate ventilation. Prevention of secondary hazards: Ke Reference to other sections See Section 7 for information on safe ha See Section 13 for disposal information.	ntected persons away. low material to be released to the environment without proper governmental permits. It and cleaning up: ep away from ignition sources. andling ial protection equipment.	
Conditions for safe storage, including Storage Requirements to be met by storeroon	explosions and fires: Protect against electrostatic charges. g any incompatibilities ns and receptacles: Store in a cool location. mon storage facility: Store away from oxidizing agents. nditions: ed containers.	
Control parameters Components with limit values that rea Additional information: No data Exposure controls Personal protective equipment General protective and hygienic mea. The usual precautionary measures for h Keep away from foodstuffs, beverages a Remove all soiled and contaminated cl0. Wash hands before breaks and at the e Maintain an ergonomically appropriate w Breathing equipment: Use suitable res Protection of hands: Impervious gloves Check protective gloves prior to each us	of technical systems: designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. quire monitoring at the workplace: Not required. sures nandling chemicals should be followed. and feed. thing immediately. nd of work. soft work ing environment. spirator when high concentrations are present. se for their proper condition. r depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.	
9 Physical and chemical properties Information on basic physical and ch General Information Appearance: Form: Odor: Odor threshold:		
pH-value: Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flash point: Flammability (solid, gaseous) Ignition temperature:	Not applicable. 229-231 °C (444-448 °F) (dec) Not determined Not determined Not applicable Highly flammable. Not determined	
Decomposition temperature:	Not determined	
Auto igniting:	Not determined.	
Danger of explosion: Explosion limits:	Not determined.	
Lower:	Not determined	(Contd. on page 3)
1		USA -

Product name: 1H-Tetrazole-5-carboxylic acid ethyl ester, sodium salt

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Possibility of hazardous reactions No	Not determined Not applicable. Not determined Not determined. Not applicable. Not applicable. Not determined Not determined. Not applicable. Not applicable. Not further relevant information availab nended storage conditions. b be avoided : Decomposition will not of dangerous reactions known		(Contd. of page 2)
Conditions to avoid No further relevant Incompatible materials: Oxidizing ager Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides Sodium oxide	ts		
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	kin and mucous membranes. ect. wn. on carcinogenic properties of this mate n. repeated exposure: No effects know single exposure: No effects known. s known.	rial is available from the EPA, IARC, NTP, OSHA or ACGIH. n. and chronic toxicity of this substance is not fully known.	
12 Ecological information Toxicity Aquatic toxicity: No further relevant info Persistence and degradability No furth Bioaccumulative potential No further re Mobility in soil No further relevant inform Additional ecological information: General notes: Do not allow material to be released to th Do not allow undiluted product or large of Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant	er relevant information available. elevant information available. nation available. ne environment without proper governn uantities to reach ground water, water	nental permits. course or sewage system.	
13 Disposal considerations Waste treatment methods Recommendation Consult state, local o Uncleaned packagings: Recommendation: Disposal must be m	0 1 1	disposal.	
14 Transport information			
UN-Number DOT, IMDG, IATA		UN1325	
UN proper shipping name DOT IMDG, IATA		Flammable solids, organic, n.o.s. (1H-Tetrazole-5-carboxylic acid ester, sodium salt) FLAMMABLE SOLID, ORGANIC, N.O.S. (1H-Tetrazole-5-carboxy ester, sodium salt)	-
Transport hazard class(es) DOT Class		4.1 Flammable solids, self-reactive substances and solid desensi	tised evaluatives
Label Class		4.1 (F1) Flammable solids, self-reactive substances and solid desensit 4.1 4.1 (F1) Flammable solids, self-reactive substances and solid des explosives	

duct name: 1H-Tetrazole-5-carboxylic acid ethy	ul actor acdium calt
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Label	4.1
IMDG, IATA	
Class Label	4.1 Flammable solids, self-reactive substances and solid desensitised explosive 4.1
Packing group DOT, IMDG, IATA	<i>III</i>
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Flammable solids, self-reactive substances and solid desensitised explosives
Transport in bulk according to Annex II of MARPOL73/7	
Transport/Additional information:	
DOT Marine Pollutant (DOT):	No
UN "Model Regulation":	UN1325, Flammable solids, organic, n.o.s. (1H-Tetrazole-5-carboxylic acid ethy
	ester, sodium salt), 4.1, III
Regulatory information	
Safety, health and environmental regulations/legislation GHS label elements The product is classified and labeled lazard pictograms	n specific for the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)
*	
GHS02	
Signal word Warning Hazard statements	
H228 Flammable solid.	
Precautionary statements P210 Keep away from heat/sparks/open flames/hot s	surfaces. No smoking.
P210 Keep away from heat/sparks/open flames/hot s P280 Wear protective gloves/protective clothing/eye	protection/face protection.
-240 Ground/bond container and receiving equipme	nt.
	naloquinmont
P370+P378 In case of tire: Use for extinction: CO2. powdel	ng/equipment. r or water sprav.
P241 Use explosion-proof electrical/ventilating/lightin P370+P378 In case of fire: Use for extinction: CO2, powder National regulations	ng/equipment. r or water spray.
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