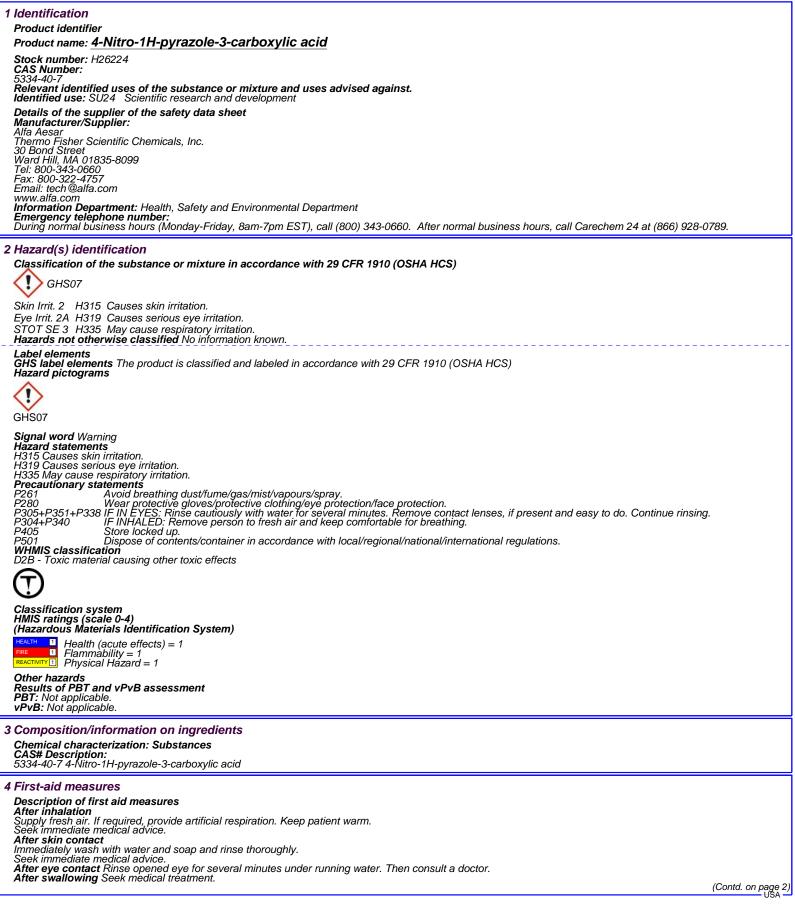


Safety Data Sheet per OSHA HazCom 2012



## Product name: 4-Nitro-1H-pyrazole-3-carboxylic 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: Crystalline powder White Odor: Not determined Odor threshold: Not determined pH-value: Not applicable Change in condition 195 °C (383 °F) (dec) Not determined Melting point/Melting range: 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-Nitro-1H-nyrazole-3-carboxylic acid

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		viewed on 06/12/2008
roduct name: 4-Nitro-1H-pyrazole-	-3-carboxylic acid	
		(Contd. of page 2)
Auto igniting:	Not determined.	
Danger of explosion: Explosion limits:	Product does not present an explosion hazard.	
Lower:	Not determined	
Upper: Vapor pressure:	Not determined Not applicable.	
Density:	Not determined	
Relative density Vapor density	Not determined. Not applicable.	
Evaporation rate Solubility in / Miscibility with	Not applicable.	
Water:	Not determined	
Partition coefficient (n-octanol/water) Viscosity:	): Not determined.	
dynamic:	Not applicable.	
kinematic: Other information	Not applicable. No further relevant information available.	
0 Stability and reactivity		
Reactivity No information known.	amandad staraga conditions	
Thermal decomposition / conditions	nmended storage conditions. <b>to be avoided:</b> Decomposition will not occur if used and stored according to specifications.	
Possibility of hazardous reactions No Conditions to avoid No further relevar	o dangerous reactions known	
Incompatible materials: Oxidizing age	ents	
Hazardous decomposition products: Carbon monoxide and carbon dioxide		
Nitrogen oxides		
1 Toxicological information		
Information on toxicological effects		
Acute toxicity: No effects known.	alara Mardana Ala data	
LD/LC50 values that are relevant for Skin irritation or corrosion: Causes s		
Eye irritation or corrosion: Causes se	erious eye irritation.	
Sensitization: No sensitizing effects kr Germ cell mutagenicity: No effects kn	nown. nown.	
Carcinogenicity: No classification data	a on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
Reproductive toxicity: No effects know Specific target organ system toxicity	repeated exposure: No effects known.	
Specific target organ system toxicity Aspiration hazard: No effects known.	v - single exposure: May cause respiratory irritation.	
Subacute to chronic toxicity: No effect	cts known.	
Additional toxicological information:	To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.	
2 Ecological information		
Toxicity		
Persistence and degradability No further	iformation available. ther relevant information available.	
Aquatic toxicity: No further relevant in Persistence and degradability No furt Bioaccumulative potential No further Mobility in soil No further relevant info	relevant information available.	
Additional ecological information:	imation available.	
General notes:	the environment without proper governmental permits.	
Do not allow undiluted product or large	quantities to reach ground water, water course or sewage system.	
Avoid transfer into the environment. Results of PBT and vPvB assessmer	nt	
PBT: Not applicable.		
vPvB: Not applicable. Other adverse effects No further relev	rant information available.	
3 Disposal considerations		
Waste treatment methods Recommendation Consult state. local	or national regulations to ensure proper disposal.	
Uncleaned packagings: Recommendation: Disposal must be n		
Recommendation. Disposal must be n		
4 Transport information	tion	
Not a hazardous material for transporta UN-Number	1001.	
DOT, IMDG, IATA	None	
UN proper shipping name DOT, IMDG, IATA	Mana	
DOT, IMDG, IATA Transport hazard class(es)	None	
DOT, ADR, IMDG, IATA		
Class	None	
Packing group DOT, IMDG, IATA	Nono	
	None	
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable. x II of MARPOL73/78 and the IBC Code Not applicable.	
Transport/Additional information:	Not dangerous according to the above specifications.	
		(Contd. on page 4)
		1100

(Contd. on page 4) USA

	(Contd. of pag
DOT	
Marine Pollutant (DOT):	No
Regulatory information Safety, health and environmental regulations//e	<b>legislation specific for the substance or mixture</b> ad labeled in accordance with 29 CFR 1910 (OSHA HCS)
GHS label elements The product is classified and Hazard pictograms	d labeled in accordance with 29 CFR 1910 (OSHA HCS)
GHS07	
Signal word Warning Hazard statements H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements	
P261 Avoid breathing dust/fume/gas.   P280 Wear protective gloves/protect   P305+P351+P338 IF IN EYES: Rinse cautiously v   P304+P340 IF INHALED: Remove person t   P405 Store locked up.	s/mist/vapours/spray. tive clothing/eye protection/face protection. with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. to fresh air and keep comfortable for breathing. <sup>,</sup> in accordance with local/regional/national/international regulations.
National regulations ' This product is not listed in the U.S. Environmenta to research and development only. This product m product must not be used for commercial purpose SARA Section 313 (specific toxic chemical listi California Proposition 65	tal Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restric must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This es or in formulations for commercial purposes. <b>tings)</b> Substance is not listed.
Prop 65 - Chemicals known to cause cancer Su Prop 65 - Developmental toxicity Substance is r Prop 65 - Developmental toxicity, female Substa Prop 65 - Developmental toxicity, male Substar Information about limitation of use: For use onl	itance is not listed. ince is not listed. Ny by technically qualified individuals.
market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (reguirin	regulations proving to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. ticle 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on t ng Authorisation for use) Substance is not listed.
Chemical safety assessment: A Chemical Safet	ly Assessment has not been carried out.
<b>Other information</b> Employers should use this information only as a s information to ensure proper use and protect the h conformance with this Material Safety Data Sheet,	supplement to other information gathered by them, and should make independent judgement of suitability of this health and safety of employees. This information is furnished without warranty, and any use of the product not i t, or in combination with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing Department	partment
(D) Registricit international Concernance transport or an approximational Ai ATA-DCR: Dangerous Goods Regulations by the "International Ai CAO: International Civil Aviation Organization CAO-TI: Technical Instructions by the "International Civil Aviation MDG: International Maritime Code for Dangerous Goods 2011 (Brownstream) of Terrocoordin Dangerous Goods	andises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) Air Transport Association" (IATA) n Organization" (ICAO)
MDG: International Maritime Code for Dangerous Goods OT: US Department of Transportation ATA: International Air Transport Association AS: Chemical Abstracts Service (division of the American Chemin HMIS: Workplace Hazardous Materials Information System (USA) WHMIS: Workplace Hazardous Materials Information System (Car C50: Lethal concentration, 50 percent D50: Lethal dose, 50 percent D50: Lethal dose, 50 percent ACGIH: American Conference of Governmental Industrial Hygienia SGH: Accorpational Safety and Health Administration (USA) VTP: National Toxicology Program (USA) ARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	iical Society) Inada)
US0: Lethal dose, 50 percent PVB: very Persistent and very Bioaccumulative QCGIH: American Conference of Governmental Industrial Hygienic SSHA: Occupational Safety and Health Administration (USA) VTP: National Toxicology Program (USA) APC: International Amery for Besparth on Cancer	ists (USA)
EPA: Environmental Protection Agency (USA)	- US