

Safety Data Sheet per OSHA HazCom 2012

## 1 Identification

Product identifier Product name: 4-Guanidinobenzoic acid hydrochloride Stock number: H60392 **CAS Number:** 42823-46-1 EC number: 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: Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. Inerrito Fisher Scheman C. 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 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) The substance is not classified according to the Globally Harmonized System (GHS). Hazards not otherwise classified No information known. I abel elements GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable WHMIS classification Not controlled Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) Health (acute effects) = 1Flammability = 1 Flammability = 1 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: 42823-46-1 4-Guanidinobenzoic acid hydrochloride Identification number(s): EC number: 255-956-3 4 First-aid measures Description of first aid measures After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. After skin contact Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing 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. 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) Hydrogen chloride (HCI) 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 product to reach sewage system or any water course.

	F	Printing date 11/24/2015 Reviewed on 04/18/2014
Product name: 4-Guanidinobenzoid	acid hydrochloride	
Methods and material for containme Prevention of secondary hazards: No Reference to other sections See Section 7 for information on safe h See Section 8 for information on perso See Section 13 for disposal informatior	andling nal protection equipment.	(Contd. of page 1)
Conditions for safe storage, includin Storage Requirements to be met by storeroo Information about storage in one col Protect from heat. Store away from oxidizing agents. Further information about storage co Keep container tightly sealed. Refrigerate	explosions and fires: No information known. g any incompatibilities ms and receptacles: Refrigerate mmon storage facility: onditions:	
Control parameters Components with limit values that re The product does not contain any relev	t <b>ection</b> of technical systems: I designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute	2
Protection of hands: Impervious gloves Check protective gloves prior to each u	handling chemicals should be followed. and feed. othing immediately. and of work. working environment. spirator when high concentrations are present. se for their proper condition. y depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. o minutes) Not determined	
9 Physical and chemical propertie		
Information on basic physical and cl General Information Appearance: Form: Color: Odor: Odor: Odor threshold:	nemical properties Solid Pale brown Not determined Not determined.	
pH-value:	Not applicable.	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	285 °C (545 °F) (dec) Not determined Not determined. Not determined. Not determined Not determined Not determined.	

## 10 Stability and reactivity

Other information

Danger of explosion: Explosion limits: Lower: Upper:

Vapor pressure: Density: Relative density

Viscosity: dynamic: kinematic:

Not determined. Not determined Not determined

Not applicable. Not determined Not determined. Not applicable. Not applicable.

Reactivity No information known. Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions Reacts with strong oxidizing agents Conditions to avoid No further relevant information available.

Not applicable. Not applicable. No further relevant information available.

Vapor density Not determined. Vapor density Not applicable. Solubility in / Miscibility with Water: Not determined Partition coefficient (n-octanol/water): Not determined.

(Contd. on page 3)

Product name: 4-Guanidinobenzoic acid hydrochloride			
Incompatible materials:		(Contd. of page 2)	
Oxidizing agents Heat			
Hazardous decomposition products: Carbon monoxide and carbon dioxide			
Nitrogen oxides Hydrogen chloride (HCl)			
11 Toxicological information Information on toxicological effects			
Acute toxicity: No effects known. LD/LC50 values that are relevant for classification: No data			
Skin irritation or corrosion: May cause irritation Eye irritation or corrosion: May cause irritation			
Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known.			
Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. Reproductive toxicity: No effects known.			
Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known.			
Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects known.			
Additional toxicological information: To the best of our knowledge the acut	e and chronic toxicity of this substance is not fully known.		
12 Ecological information			
Toxicity Aquatic toxicity: No further relevant information available.			
Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available.			
Mobility in soil No further relevant information available. Additional ecological information:			
General notes:			
Do not allow undiluted product or large quantities to reach ground water, water course or sewage system. Avoid transfer into the environment. Posture of PBT and vPVP accessment			
Results of PBT and vPvB assessment PBT: Not applicable.			
vPvB: Not applicable. Other adverse effects No further relevant information available.			
13 Disposal considerations			
Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal.			
Uncleaned packagings:			
Recommendation: Disposal must be made according to official regulations.			
14 Transport information UN-Number			
DOT, ADN, IMDG, IATA UN proper shipping name	Not applicable		
DOT, ADN, IMDG, IATA	Not applicable		
Transport hazard class(es) DOT, ADR, ADN, IMDG, IATA			
Class	Not applicable		
Packing group DOT, IMDG, IATA	Not applicable		
Environmental hazards:	Not applicable.		
Special precautions for user Transport in bulk according to Approx II of MARPOL 73/78 and the IRC Co	Not applicable.		
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Con Transport/Additional information:	ие погарлиале.		
DOT	No		
Marine Pollutant (DOT): UN "Model Regulation":	<u>No</u>		
15 Regulatory information			
Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements Not applicable			
Hazard pictograms Not applicable Signal word Not applicable			
Hăzard statements' Not applicable National regulations			
This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This			
product must not be used for commercial purposes or in formulations for commercial purposes. This product is not listed on the Canadian Domestic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL).			
SARA Section 313 (specific toxic chemical listings) Substance is not listed. California Proposition 65			
Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity Substance is not listed.			
Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed.			
Information about limitation of use: For use only by technically qualified individuals. Other regulations, limitations and prohibitive regulations			
Substance of Very High Concern (SVHC) according to the REACH Regula	ations (EC) No. 1907/2006. Substance is not listed.	(Contd. on page 4)	
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USA

## Product name: 4-Guanidinobenzoic acid hydrochloride

(Contd. of page 3) The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out. 16 Other information Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the use Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / -Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) DOT: US Department of Transportation EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Information System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal dose, 50 percent USD: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) MTP: National Toxicology Program (USA) MTP: National Toxicology Program (USA)