Safety Data Sheet



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Revi	ision date 07/15/2016
1 Identification	
Product identifier	
Product name: <u>6-Chloropyrazine-2-carboxylic aci</u> Stock number: H66404	
CAS Number: 23688-89-3	
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. 30 Bond Street	
Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757	
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) 92	?8-0789.
2 Hazard(s) identification	
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
GHS07	
Skin Irrit. 2 H315 Causes skin irritation.	
Eye Irrit. 2A H319 Causes serious eye irritation. STOT SE 3 H335 May cause respiratory irritation. 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	
\wedge	
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/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection.	a in a
P201 Provide and inclusion of the section of the s	sing.
P302 Fake on contaminated clothing and wash before reuse. P321 Specific treatment (see on this label).	
P405 Store locked UD	
P403+P233 Store in a well-ventilated place. Keep container tightly closed. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification	
D2B - Toxic material causing other toxic effects	
$\overline{\mathbf{T}}$	
Classification system HMIS ratings (scale 0-4) (Unserview Metaziele Identification Sustem)	
(Hazardous Materials Identification System)	
HEALTH I Health (acute effects) = 1 FIRE I Flammability = 1 REACTIVITY I 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:	
23688-89-3 6-Chloropyrazine-2-carboxylic aci	
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.	(Contd. on page 2)
	USA USA

Safety Data Sheet

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Product name: 6-Chloropyrazine-2-0	carboxylic aci			
After swallowing Seek medical treatme Information for doctor Most important symptoms and effect Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.		(Contd. of page 1)		
5 Fire-fighting measures Extinguishing media	n dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. stance or mixture			
6 Accidental release measures Personal precautions, protective equ Wear protective equipment. Keep unpro- Ensure adequate ventilation Environmental precautions: Do not al Methods and material for containment Prevention of secondary hazards: No Reference to other sections See Section 7 for information on safe ha See Section 8 for information on person See Section 13 for disposal information.	stected persons away. Iow product to reach sewage system or any water course. I t and cleaning up: Ensure adequate ventilation. I special measures required. andling			
Conditions for safe storage, including Storage Requirements to be met by storeroom Information about storage in one con Protect from heat. Store away from oxidizing agents.	explosions and fires: No information known.			
8 Exposure controls/personal prote Additional information about design of Properly operating chemical fume hood Control parameters Components with limit values that red The product does not contain any releve Additional information: No data Exposure controls Personal protective equipment General protective and bygienic mea	ection 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: ant quantities of materials with critical values that have to be monitored at the workplace.			
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. Recommended filter device for short term use: Use a respirator with type N95 (USA) or PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air- purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards. 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. Eye protection: Safety glasses Body protection: Protective work clothing.				
9 Physical and chemical properties	\$ \$			
Information on basic physical and ch General Information	emical properties			
Appearance: Form:	Powder			
Odor: Odor threshold:	Not determined Not determined			
pH-value:	Not applicable.			
Change in condition Melting point/Melting range:	Not determined	(Control on page 2)		
		(Contd. on page 3) USA		



Product name: 6-Chloropyrazine-2-carboxylic aci

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		(Contd. of page 2)		
Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature:	Not determined Not determined Not determined Not determined			
Decomposition temperature: Auto igniting:	Not determined Not determined			
Danger of explosion: Explosion limits:	Not determined.			
Lower: Upper:	Not determined Not determined			
Vapor pressure: Density:	Not applicable. Not determined			
Relative density Vapor density	Not determined. Not applicable.			
Evaporation rate Solubility in / Miscibility with	Not applicable.			
Water: Partition coefficient (n-octanol/water)	Not determined Die Not determined.			
Viscosity: dynamic: kinematic:	Not applicable.			
Other information	Not applicable. No further relevant information available.			
10 Stability and reactivity				
Reactivity No information known. Chemical stability Stable under recom	to be avoided: Decomposition will not occur if used and stored according to specifications. eacts with strong oxidizing agents t information available.			
Reproductive foxicity: No effects know Specific target organ system toxicity Specific target organ system toxicity Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect Additional toxicological information: Carcinogenic categories	kin irritation. rious eye irritation. own. own. o n carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. <i>- repeated exposure:</i> No effects known. <i>- single exposure:</i> May cause respiratory irritation. cts known. To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.			
	alth Administration) Substance is not listed.			
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. 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 Uncleaned packagings: Recommendation: Disposal must be n	or national regulations to ensure proper disposal. nade according to official regulations.			
14 Transport information				
UN-Number DOT, ADN, IMDG, IATA	Not applicable			
UN proper shipping name DOT, ADN, IMDG, IATA	Not applicable			
Transport hazard class(es)				
DOT, ADR, ADN, IMDG, IATA Class	Not applicable			
		(Contd. on page 4) USA		

Product name: 6-Chloropyrazine-2-carboxylic aci (Contd. of page 3) Packing group DOT, IMDG, IATA Not applicable Environmental hazards: Not applicable Special precautions for user Not applicable Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable Transport/Additional information: DOT Marine Pollutant (DOT): No UN "Model Regulation": 15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms ! GHS07 Signal word Warning Hazard statements H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements

 Precautionary statements

 P261
 Avoid breathing dust/fume/gas/mist/vapours/spray.

 P280
 Wear protective gloves/protective clothing/eye protection/face protection.

 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

 P304+P340
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

 P362
 Take off contaminated clothing and wash before reuse.

 P321
 Specific treatment (see on this label).

 P332+P313
 If skin irritation occurs: Get medical advice/attention

 Specific treatment (see on uns raber). If skin irritation occurs: Get medical advice/attention. Store locked up. Store in a well-ventilated place. Keep container tightly closed. Dispose of contents/container in accordance with local/regional/national/international regulations. P332+P313 P405 P403+P233 050

 Prop 1
 Dispose of contents/container in accordance with local/regional/international/international regulations.

 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 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, female Substance is not listed.

 Prop 65 - Developmental toxicity, female Substance is not listed.

 Prop 65 - Developmental toxicity, male Substance is not listed.

 Other regulations, limitations of use: For use only by technically qualified individuals.

 Other regulations of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed.

 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.

 National regulations 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. Department issuing SDS: Global Marketing Department Date of preparation / last revision 07/18/2016 / -

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 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

 CAS: Chemical Abstracts Service (division of the American Chemical Society)

 HMIS: Hazardous Materials Identification System (USA)

 WHMIS: Workplace Hazardous Materials Information System (Canada)

 LC50: Lethral concentration, 50 percent

 VPUB: very Persistent and very Bioaccumulative

 ACGIH: American Conference of Governmental Industrial Hygienists (USA)

 OSHA: Occupational Safety and Health Administration (USA)

 NTP: National Toxicology Program (USA)

 KIAC: International Agency for Research on Cancer

 EPA: Environmental Protection Agency (USA)

 Skin Intri. 2: Skin corrison/inition, Hazard Category 2A

 Syn Intri. 2: Skin corrison/inition, Hazard Category 2A

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