

Safety Data Sheet per OSHA HazCom 2012

	eviewed on 04/08/2010
1 Identification	
Product identifier Product name: 9-Aminoacridine hydrochloride hydrate	
Stock number: B24356	
CAS Number: 52417-22-8	
EC number: 205-145-5	
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	
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)	
GHS06 Skull and crossbones	
Acute Tox. 3 H301 Toxic if swallowed.	
GHS08 Health hazard	
Muta. 2 H341 Suspected of causing genetic defects. 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	
GHS06 GHS08	
Signal word Danger Hazard statements H301 Toxic if swallowed.	
H341 Suspected of causing genetic defects. Precautionary statements	
P280 Wear protective gloves / protective clothing	
P309 IF exposed or if you feel unwell: P310 Immediately call a POISON CENTER/doctor/ WHMIS classification	
D1A - Very toxic material causing immediate and serious toxic effects D2B - Toxic material causing other toxic effects	
(\mathbf{R})	
Classification system	
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH Image: Provide and Provide an	
REACTIVITY 1 Physical Házard = 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: 52417-22-8 9-Aminoacridine hydrochloride hydrate Identification number(s):	
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4 First-aid measures	
Description of first aid measures General information	
Immediately remove any clothing soiled by the product. In case of irregular breathing or respiratory arrest provide artificial respiration.	
After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm.	
Seek immediate medical advice.	(Contd. on page 2)
	USA -

Product name: 9-Aminoacridine hydrochloride hydrate (Contd. of page 1) 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 Do not induce vomiting; immediately call for medical help 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 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) Possibly Hydrogen cyanide (HCN) 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 material to be released to the environment without proper governmental permits. **Methods and material for containment and cleaning up:** Dispose of contaminated material as waste according to section 13. 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 Storage Storage 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 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. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Protection of hands: Impervise gloves 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 chemical properties General Information Appearance: Form: Crystalline Yellow Color: Odor: Odor threshold: Odorless Not determined. pH-value: Not applicable . Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: >300 °C (>572 °F) Not determined Not determined

(Contd. on page 3)

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Floduct name. 9-Ammoachame nyo			
	(Contd. o	f page 2)	
Elash point:			
Flash point: Elammability (solid, gasoous)	Not applicable Not determined.		
Flammability (solid, gaseous) Ignition temperature:	Not determined		
Decomposition temperature:	Not determined		
Auto igniting:	Not determined.		
Danger of explosion: Explosion limits:	Product does not present an explosion hazard.		
Lower:	Not determined		
Upper:	Not determined		
Vapor pressure:			
Density:	Not applicable. Not determined		
Relative density	Not determined.		
Vapor density	Not applicable.		
Evaporation rate	Not applicable.		
Solubility in / Miscibility with			
Water at 20 °C (68 °F):	3.3 a/l		
Water at 20 °C (68 °F): Partition coefficient (n-octanol/water)	: Not determined.		
Viscosity:			
dynamic:	Not applicable.		
kinematic:	Not applicable.		
Other information	No further relevant information available.		
10 Stability and reactivity			
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Reactivity No information known.			
Chemical stability Stable under recom	mended storage conditions.		
Thermal decomposition / conditions	mended storage conditions. to be avoided: Decomposition will not occur if used and stored according to specifications.		
Possibility of hazardous reactions No	o dangerous reactions known		
Conditions to avoid No further relevan			
Incompatible materials: Oxidizing age	nts		
Hazardous decomposition products: Carbon monoxide and carbon dioxide			
Carbon monoxide and carbon dioxide			
Nitrogen oxides			
Hydrogen chloride (HCI)			
Possibly Hydrogen cyanide (HCN)			
44 Testesley is a lister way offer			
11 Toxicological information			
Information on toxicological effects			
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Acute toxicity: Toxic if swallowed.	classification		
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14 Transport information

UN proper shipping name DOT IMDG, IATA

UN-Number DOT, IMDG, IATA

UN2811

Toxic solids, organic, n.o.s. (9-Aminoacridine hydrochloride hydrate) TOXIC SOLID, ORGANIC, N.O.S. (9-Aminoacridine hydrochloride hydrate)

(Contd. on page 4)

Safety Data Sheet per OSHA HazCom 2012

Product name: 9-Aminoacridine hydrochloride hydrate

Todat name. 3-Animoachame nyarocmonae nyarate		
	(Contd. of page 3)	
Transport hazard class(es)		
DOT		
Taxe		
Class	6.1 Toxic substances.	
Label Class	6.1 6.1 (T2) Tavia substances	
Label	6.1 (T2) Toxic substances 6.1	
ĪMDG, IATA	•	
Class	6.1 Toxic substances.	
Label	6.1	
Packing group DOT, IMDG, IATA	III	
Environmental hazards:	Not applicable.	
Special precautions for user	Warning: Toxic substances	
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":	UN2811, Toxic solids, organic, n.o.s. (9-Aminoacridine hydrochloride hydrate), 6.1, III	

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



GHS06 GHS08

Signal word Danger

Signal word Danger Hazard statements H301 Toxic if swallowed. H341 Suspected of causing genetic defects. Precautionary statements P280 Wear protective gloves / protective clothing. P309 IF exposed or if you feel unwell: P310 Immediately call a POISON CENTER/doctor/... National regulations National regulations All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. All components of this product are listed on 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. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, and Substance is not listed. Prop 65 - Developmental toxicity, and Substance is not listed. Prop 65 - Developmental toxicity, and Substance is not listed. Prop 65 - Developmental toxicity, and Substance is not listed. Prop 65 - Developmental toxicity, and Substance is not listed. Prop 65 - Developmental toxicity, and Substance is not listed. Prop 65 - Developmental toxicity, and Substance is not listed. Information about limitations and prohibitive regulations Substance 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. market and use must be observed. Substance is not liste 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 user.
Department issuing SDS: Global Marketing Department
Date of preparation / last revision 11/24/2015 / Abbreviations and acronyms:
RD: Réglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAC: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transport Association
IATA: International Air Transport Association
IATA: International Agetre to the American Chem