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	Version 1
1 Identification	
Product identifier Broduct name: Boly(ally/amine bydrochloride)	
Product name: Poly(allylamine hydrochloride) Stack number: 42002	
Stock number: 43092 CAS Number:	
71550-12-4 ELINCS Number:	
415-050-2 Index number:	
612-191-00-3	
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 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) 928-078	9.
2 Hazard(s) identification	
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
GHS07	
Acute Tox. 4 H302 Harmful if swallowed.	
Skin Sens. 1 H317 May cause an allergic skin reaction. 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	
GHS07	
Signal word Warning	
Hazard statements H302 Harmful if swallowed.	
H317 May cause an allergic skin reaction. Precautionary statements	
P280 Wear protective gloves / protective clothing. WHMIS classification	
D1B - Toxic material causing immediate and serious toxic effects D2B - Toxic material causing other toxic effects	
(*)(T)	
Classification system	
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH 2 Health (acute effects) = 2 FIRE I Flammability = 1 REACTIVITY 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: 71550-12-4 Poly(allylamine hydrochloride)	
Concentration: ≤100% Identification number(s):	
ELINCS Number: 415-050-2 Index number: 612-191-00-3	
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.	Contd. on page 2)
(C	USA



Product name: Poly(allylamine hydrochloride)

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 Harmful if swallowed. May cause an allergic skin reaction. Indication of any immediate medical attention and special treatment needed No further relevant information available.	(Contd. of page 1)
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. 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 personal protection equipment. See Section 13 for disposal information. Protective Action Criteria for Chemicals PAC-1: Substance is not listed. PAC-3: Substance is not listed.	
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 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: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. Additional information: No data Exposure controls Personal protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all solied and contaminated clothing immediately. Wash hands before breaks and at the end of work. Meany and commended inter device for short term use: Use a respirator with type N95 (USA) or PE (EM 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determiny respirators are appropriate. Only use equipment tested and approved under appropriate government standards. Protection of hands: Impervious 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. Material of gloves Nitrile rubes not only depends on the determined Eventation of suitable gloves material (in minutes) Not determined Eventation of suitable sets with side shields / NIOSH (US) or EN 166(EU) Body protection: Protective work clothing.	ermine if air-
9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Powder Odor: Not determined	
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Odor threshold:	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:	Not determined Not determined Not determined Not determined Not determined Not determined.			
Danger of explosion: Explosion limits:	Not determined.			
Lower: Upper: Vapor pressure: Density: Relative density Vapor density Evaporation rate Solubility in / Miscibility with	Not determined Not determined Not applicable. Not determined Not determined. Not applicable. Not applicable.			
Water: Partition coefficient (n-octanol/water) Viscosity:	Soluble): Not determined.			
dynamic: kinematic: Other information	Not applicable. Not applicable. No further relevant information available.			
10 Stability and reactivity 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. Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides Hydrogen chloride (HCI)				
11 Toxicological information Information on toxicological effects Acute toxicity: Harmful if swallowed. LD/LC50 values that are relevant for Skin irritation or corrosion: May cause Eye irritation or corrosion: May cause Sensitization: May cause an allergic si Germ cell mutagenicity: No effects kno Carcinogenicity: No classification data Reproductive toxicity: No effects know	se irritation e irritation kin reaction. iown. a on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.			
Specific target organ system toxicity Specific target organ system toxicity	 repeated exposure: No effects known. single exposure: No effects known. 			
Aspiration hazard: No effects known. Subacute to chronic toxicity: No effec Additional toxicological information:	cts known. To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.			
12 Ecological information				
Toxicity Aquatic toxicity: No further relevant in Persistence and degradability No further Bioaccumulative potential No further Mobility in soil No further relevant infor Additional ecological information: General notes: Do not allow undiluted product or large Avoid transfer into the environment. Results of PBT and vPvB assessmen PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant	rmation available. quantities to reach ground water, water course or sewage system. nt			
13 Disposal considerations				
Waste treatment methods Recommendation Consult state, local Uncleaned packagings: Recommendation: Disposal must be n Recommended cleansing agent: Wat	or national regulations to ensure proper disposal. nade according to official regulations. er, if necessary with cleansing agents.			
14 Transport information				
UN-Number DOT, ADN, IMDG, IATA	Not applicable			
UN proper shipping name DOT, ADR, ADN, IMDG, IATA	Not applicable (Contd. on page 4			
	(Contd. on page 4 USA -			

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		(Contd. of page 3)	
Transport hazard class(es)			
DOT, ADR, ADN, IMDG, IATA Class	Not applicable		
Packing group DOT, ADR, 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":	Not applicable		

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



Signal word Warning
Hand Statements
Hand Warning
Hand Statements
Hand Warning
Hand