

Poly(allylamine hydrochloride) Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Issue date: 07/12/2023 Supersedes: 12/13/2013 Version: 1.0

SECTIC		
	ON 1: Identification	
1.1.	Identification	
Product	t form	: Mixture
Trade na	ame	: Poly(allylamine hydrochloride)
Product	t code	: 25673
Formula	a	: no data
1.2.	Recommended use and restrictions o	n use
Recomr	mended use	: Use as laboratory reagent, Manufacture of substances
1.3.	Supplier	
Warring T +1 21		L
1.4.	Emergency telephone number	
Emerge	ency number	: 24-hour emergency phone number ChemTel 1-800-255-3924
SECTIO	ON 2: Hazard(s) identification	
2.1.	Classification of the substance or mix	ture
	classification	
	rrosion/irritation Category 1C	Causes severe skin burns and eye damage
Serious	eye damage/eye irritation Category 1 eye damage/eye irritation Category 2B	Causes serious eye damage Causes eye irritation
2.2.	GHS Label elements, including precau	utionary statements
GHS US	labeling	
Hazard	pictograms (GHS US)	
Signal w	word (GHS US)	: Danger
Hazard	statements (GHS US)	: Causes severe skin burns and eye damage Causes serious eye damage
		Causes eye irritation
Precaut	tionary statements (GHS US)	
		Causes eye irritation Do not breathe dust/fume/gas/mist/vapors/spray. Wash hands, forearms and face thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing.
2.3.	Other hazards which do not result in c	Causes eye irritation Do not breathe dust/fume/gas/mist/vapors/spray. Wash hands, forearms and face thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing.
2.3. No additio	Other hazards which do not result in o onal information available	Causes eye irritation Do not breathe dust/fume/gas/mist/vapors/spray. Wash hands, forearms and face thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing.
2.3. No additio 2.4.	Other hazards which do not result in o onal information available Unknown acute toxicity (GHS US)	Causes eye irritation Do not breathe dust/fume/gas/mist/vapors/spray. Wash hands, forearms and face thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing.
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2.3. No additio 2.4. Not applio SECTIO 3.1.	Other hazards which do not result in c onal information available Unknown acute toxicity (GHS US) cable ON 3: Composition/Information Substances	Causes eye irritation Do not breathe dust/fume/gas/mist/vapors/spray. Wash hands, forearms and face thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing.
2.3. No additio 2.4. Not applio SECTIO	Other hazards which do not result in c onal information available Unknown acute toxicity (GHS US) cable ON 3: Composition/Information Substances	Causes eye irritation Do not breathe dust/fume/gas/mist/vapors/spray. Wash hands, forearms and face thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing.

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Name	Product identifier	%	GHS US classification	
2-Propen-1-amine, hydrochloride, homopolymer	(CAS-No.) 71550-12-4	41 – 50	Acute Tox. 4 (Oral), H302 Skin Sens. 1. H317	

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures	
I.1. Description of first aid measures	
First-aid measures general	: Call a physician immediately.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Call a physician immediately.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion	: Rinse mouth. Call a physician immediately. Do not induce vomiting.
.2. Most important symptoms and effe	cts (acute and delayed)
Symptoms/effects after skin contact	: Burns.
Symptoms/effects after eye contact	: Serious damage to eyes. Mild eye irritation.
Symptoms/effects after ingestion	: Burns.
.3. Immediate medical attention and sp	pecial treatment, if necessary
reat symptomatically.	
ECTION 5: Fire-fighting measures	
.1. Suitable (and unsuitable) extinguis	hing media
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
.2. Specific hazards arising from the c	hemical
Hazardous decomposition products in case of fire	: Toxic fumes may be released.
.3. Special protective equipment and p	precautions for fire-fighters
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release mea	isures
6.1. Personal precautions, protective ed	quipment and emergency procedures
5.1.1. For non-emergency personnel	
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene. Do not breathe dust/fume/gas/mist/vapors/spray.
.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
.2. Environmental precautions	
void release to the environment.	
.3. Methods and material for containm	ent and cleaning up
Methods for cleaning up	: Take up liquid spill into absorbent material.
Other information	Dispose of materials or solid residues at an authorized site.
.4. Reference to other sections	
or further information refer to section 13.	
For further information refer to section 13. SECTION 7: Handling and storage	
For further information refer to section 13. SECTION 7: Handling and storage	: Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapors/spray.

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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Store at room temp. Store locked up. Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection		
.1.	Control parameters	
Pol	/(allylamine hydrochloride)	
No	additional information available	
2-Propen-1-amine, hydrochloride, homopolymer (71550-12-4)		
No	additional information available	

8.2.	Appro	priate eng	jineering	controls	
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Appropriate engineering controls Environmental exposure controls Ensure good ventilation of the work station.Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical p	roperties
9.1. Information on basic physical and ch	emical properties
Physical state	: Liquid
Appearance	: viscous liquid.
Color	: Colorless
Odor	: Mixture contains one or more component(s) which have the following odour:
Odor threshold	: No data available
pH	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: no data
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available

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Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2.	Chemical stability		
Stable under normal conditions.			
10.3.	Possibility of hazardous reactions		
No dangerous reactions known under normal conditions of use.			
10.4.	Conditions to avoid		
None under recommended storage and handling conditions (see section 7).			
10.5.	Incompatible materials		
No additional information available			
10.6.	Hazardous decomposition products		
Under normal conditions of storage and use, hazardous decomposition products should not be produced.			

SECTION 11: Toxicological information			
11.1. Information on toxicological effect	ts		
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	 Not classified Not classified Not classified 		
Poly(allylamine hydrochloride)			
LD50 oral rat	1600 μg/kg mg/kg		
Skin corrosion/irritation	: Causes severe skin burns.		
Serious eye damage/irritation	: Causes serious eye damage. Causes eye irritation.		
Respiratory or skin sensitization	: Not classified		
Germ cell mutagenicity	: Not classified		
Carcinogenicity	: Not classified		
Reproductive toxicity	: Not classified		
STOT-single exposure	: Not classified		
STOT-repeated exposure	: Not classified		
Aspiration hazard	: Not classified		
Viscosity, kinematic	: No data available		
Symptoms/effects after skin contact	: Burns.		
Symptoms/effects after eye contact	: Serious damage to eyes. Mild eye irritation.		
Symptoms/effects after ingestion	: Burns.		

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. Before neutralisation, the product may represent a danger to aquatic organisms.

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12.2.	Persistence and degradability		
	lditional information available		
12.3.	Bioaccumulative potential		
No add	lditional information available		
12.4.	Mobility in soil		
No addi	lditional information available		
12.5.	Other adverse effects		
No addi	lditional information available		

SECTION 13: Disposal considerations	
13.1. Disposal methods	,
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
waste dealment methods	
SECTION 14: Transport information	
Department of Transportation (DOT)	
In accordance with DOT	
Transport document description	: UN2735 Polyamines, liquid, corrosive, n.o.s., 8, III
UN-No.(DOT)	: UN2735
Proper Shipping Name (DOT)	: Polyamines, liquid, corrosive, n.o.s.
Class (DOT)	: 8 - Class 8 - Corrosive material 49 CFR 173.136
Packing group (DOT)	: III - Minor Danger
Hazard labels (DOT)	: 8 - Corrosive
	CORROSIVE 8
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241
DOT Special Provisions (49 CFR 172.102)	 IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HD2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T7 - 4 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	: 154
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
DOT Vessel Stowage Other	: 52 - Stow "separated from" acids
Emergency Response Guide (ERG) Number	: 153
Other information	: No supplementary information available.

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Transportation of Dangerous Goods

Not applicable

Transport by sea

Not regulated

Air transport

Transport document description (IATA)	: UN 2735 Amines, liquid, corrosive, n.o.s., 8, III
UN-No. (IATA)	: 2735
Proper Shipping Name (IATA)	: Amines, liquid, corrosive, n.o.s.
Class (IATA)	: 8 - Corrosives
Packing group (IATA)	: III - Low danger

SECTION 15: Regulatory information

15.1. US Federal regulations

2-Propen-1-amine, hydrochloride, homopolymer (71550-12-4)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).

15.2. International regulations

CANADA

	2-Propen-1-amine, hydrochloride, homopolymer (71550-12-4)		
	Listed on the Canadian NDSL (Non-Domestic Substances List)		
EU	I-Regulations		
_			
	2-Propen-1-amine, hydrochloride, homopolymer (71550-12-4)		
	Listed on ELINCS (European List of Notified Chemical Substances)		
Na	tional regulations		
	2-Propen-1-amine, hydrochloride, homopolymer (71550-12-4)		
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Japanese ISHL (Industrial Safety and Health Law) Listed on KECI (Korean Existing Chemicals Inventory)			

Listed on KECL/KECI (Korean Existing Chemicals Inventory)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

15.3. US State regulations

SECTION 16: Other information

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Hazard Rating	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	: 0 Minimal Hazard - Materials that will not burn
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

SDS US (GHS HazCom 2012)

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