

# 2-Chloroethylamine hydrochloride Safety Data Sheet 3130501 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 01/15/2016 Version: 1.0

SECTION 1: Identification 1.1. Identification Product form	
Product form	
	: Substance
Substance name	: 2-Chloroethylamine hydrochloride
CAS No	: 870-24-6
Product code	: 3130-5-01
Formula	: C2H7Cl2N
Synonyms	: 2-Aminoethyl chloride
Other means of identification	: MFCD00012887
1.2. Relevant identified uses of the s	ubstance or mixture and uses advised against
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and development
1.3. Details of the supplier of the safe	ety data sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Americ T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlabs	
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identification         2.1.       Classification of the substance of classification (GHS-US)         Skin Corr. 1B       H314 - Causes severe skin         Eye Dam. 1       H318 - Causes serious eye         Muta. 2       H341 - Suspected of causing	burns and eye damage damage
STOT SE 3 H335 - May cause respirato	
STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16	
STOT SE 3 H335 - May cause respirato	
STOT SE 3H335 - May cause respiratoFull text of H-phrases: see section 162.2.Label elements	
STOT SE 3       H335 - May cause respirato         Full text of H-phrases: see section 16         2.2.       Label elements         GHS-US labeling	ry irritation
<ul> <li>STOT SE 3 H335 - May cause respirato</li> <li>Full text of H-phrases: see section 16</li> <li>2.2. Label elements</li> <li>GHS-US labeling</li> <li>Hazard pictograms (GHS-US)</li> </ul>	$: \qquad \qquad$

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	P363 - Wash contaminated clothing before reuse P403+P233 - Store in a well-ventilated place. Keep container tightly closed P405 - Store locked up P501 - Dispose of contents/container to an approved waste disposal plant			
2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS US)				
Not applicable				
SECTION 3: Composition/information	n on ii	ngredients		
3.1. Substance				
Substance type	: Mon	o-constituent		
Name		Product identifier	%	Classification (GHS-US)
2-Chloroethylamine hydrochloride (Main constituent)		(CAS No) 870-24-6	<= 100	Skin Corr. 1B, H314           Eye Dam. 1, H318           Muta. 2, H341           STOT SE 3, H335
Full text of H-phrases: see section 16				
3.2. Mixture				
Not applicable				
SECTION 4: First aid measures				
4.1. Description of first aid measures				
First-aid measures general		ase of accident or if you feel unwell, seek re possible). Move the affected personne		
First-aid measures after inhalation	: Rem resp	nove person to fresh air and keep comfor iration. Get immediate medical advice/att	able for breathin ention.	ng. If not breathing, give artificial
First-aid measures after skin contact		h with plenty of soap and water. Remove ical advice/attention.	contaminated c	clothing and shoes. Get immediate
First-aid measures after eye contact	: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.			
First-aid measures after ingestion	asures after ingestion : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get immediate medical advice/attention.			
4.2. Most important symptoms and effect	cts, both	acute and delayed		
Symptoms/injuries	: The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.			
Symptoms/injuries after inhalation	,			and upper respiratory tract. Cough,
4.3. Indication of any immediate medica	l attentio	on and special treatment needed		
Treat symptomatically.				
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media		hol resistant foam. Carbon dioxide. Dry p opriate for surrounding fire.	owder. Water s	pray. Use extinguishing media
5.2. Special hazards arising from the su	bstance	or mixture		
Fire hazard	: The	mal decomposition generates: Carbon o	kides. Hydrogen	chloride. Nitrogen oxides.
5.3. Advice for firefighters				
Firefighting instructions	: In ca	ase of fire: Evacuate area.		
Protection during firefighting		r gas tight chemically protective clothing aratus. For further information refer to see		
SECTION 6: Accidental release mea	sur <u>es</u>			
6.1. Personal precautions, protective eq		t and emergency procedures		
General measures		cuate unnecessary personnel. Ensure ad	equate air ventil	ation. Do not breathe dust.
6.1.1. For non-emergency personnel				

6.1.1. For non-emergency personnel Emergency procedures

: Only qualified personnel equipped with suitable protective equipment may intervene.

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6.1.2. For emergency respon	ders
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precaut	ions
Avoid release to the environment.	Notify authorities if product enters sewers or public waters.
6.3. Methods and material f	or containment and cleaning up
For containment	: Stop leak if safe to do so.
Methods for cleaning up	: Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.
Other information	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
6.4. Reference to other sec	tions
No additional information available	
SECTION 7: Handling and	storage
7.1. Precautions for safe ha	Indling
Precautions for safe handling	Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe dust, mist, spray. Wear personal protective equipment. Avoid contact with skin and eyes.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe sto	rage, including any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use. Hygroscopic. Keep contents under inert gas.
Incompatible materials	: Refer to Section 10 on Incompatible Materials.
Ctorogo orog	. Store in dry, and well ventilated area

Storage area	: Store in dry, cool, well-ventilated area.

#### **SECTION 8: Exposure controls/personal protection**

#### **Control parameters** 8.1.

No additional information available

8.2. Exposure controls	
Appropriate engineering controls	: Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Hand protection	: Protective gloves. 29 CFR 1910.138: Hand Protection.
Eye protection	: Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.
Other information	: Safety shoes. 29 CFR 1910.136: Foot Protection.

#### **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and	d chemical properties
Physical state	: Solid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
pH	: No data available
Melting point	: 140 - 150 °C
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available

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Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Molecular mass	: 115.99 g/mol
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

#### 9.2. Other information

No additional information available

SECT	ION 10: Stability and reactivity
10.1.	Reactivity
No add	itional information available
10.2.	Chemical stability
The pro	oduct is stable at normal handling and storage conditions.
10.3.	Possibility of hazardous reactions
No add	itional information available
10.4.	Conditions to avoid
Keep a	way from heat, sparks and flame. Moisture.
10.5.	Incompatible materials
Bases.	Strong oxidizing agents.
10.6.	Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of fire, see Section 5.

### SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified
Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity	<ul> <li>Causes severe skin burns and eye damage.</li> <li>Causes serious eye damage.</li> <li>Not classified</li> <li>Suspected of causing genetic defects.</li> </ul>
Carcinogenicity Reproductive toxicity Specific target organ toxicity (single exposure)	<ul> <li>Not classified</li> <li>Not classified</li> <li>May cause respiratory irritation.</li> </ul>
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea.

SECT	ION 12: Ecological information
12.1.	Toxicity
No addi	itional information available
12.2.	Persistence and degradability
No addi	itional information available

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12.3.	Bioaccumulative potential		
No addit	tional information available		
12.4.	Mobility in soil		
No addit	tional information available		
12.5.	Other adverse effects		
No addit	tional information available		

<b>SECTION 13: Disposal consider</b>	ations
13.1. Waste treatment methods	
Waste treatment methods Waste disposal recommendations Additional information	<ul> <li>Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.</li> <li>Dispose of contents/container in accordance with licensed collector's sorting instructions.</li> <li>Recycle the material as far as possible.</li> </ul>
<b>SECTION 14: Transport informa</b>	tion
Department of Transportation (DOT) In accordance with DOT	

Transport document description

UN-No.(DOT) Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT)

- : UN3261 Corrosive solid, acidic, organic, n.o.s., 8, III
- : UN3261
- : Corrosive solid, acidic, organic, n.o.s.
- : 8 Class 8 Corrosive material 49 CFR 173.136
- : 8 Corrosive



: III - Minor Danger

- Packing group (DOT)
- DOT Packaging Non Bulk (49 CFR 173.xxx)
- DOT Packaging Bulk (49 CFR 173.xxx)
- DOT Symbols
- DOT Special Provisions (49 CFR 172.102)

: 213 : 240 : G - Identifies PSN requiring a technical name : IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2). IP3 - Flexible IBCs must be sift-proof and water-resistant or must be fitted with a sift-proof and water-resistant liner. T1 - 1.5 178.274(d)(2) Normal..... 178.275(d)(2) TP33 - The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tanks conforming to the provisions of portable tank instruction T4 for solid substances of packing group III or T7 for solid substances of packing group II, unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank instruction and special provisions shall apply. Filling limits must be in accordance with portable tank special provision TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter. DOT Packaging Exceptions (49 CFR 173.xxx) : 154 DOT Quantity Limitations Passenger aircraft/rail : 25 kg

(49 CFR 173.27)	°
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 100 kg
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

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: No supplementary information available.

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#### TDG

No additional information available

Transport by sea	
UN-No. (IMDG)	: 3261
Proper Shipping Name (IMDG)	: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.
Class (IMDG)	: 8 - Corrosive substances
Packing group (IMDG)	: III - substances presenting low danger
Air transport	
UN-No. (IATA)	: 3261
Proper Shipping Name (IATA)	: Corrosive solid, acidic, organic, n.o.s.
Class (IATA)	: 8 - Corrosives
Packing group (IATA)	: III - Minor Danger

#### **SECTION 15: Regulatory information**

15.1. US Federal regulations

#### 2-Chloroethylamine hydrochloride (870-24-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

#### **15.2. International regulations**

#### CANADA

#### 2-Chloroethylamine hydrochloride (870-24-6)

Listed on the Canadian NDSL (Non-Domestic Substances List)

#### **EU-Regulations**

No additional information available

#### National regulations

2-Chloroethylamine hydrochloride (870-24-6) Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Korean ECL (Existing Chemicals List) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on INSQ (Mexican national Inventory of Chemical Substances)

#### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

#### **SECTION 16: Other information**

#### Full text of H-phrases:

Eye Dam. 1	Serious eye damage/eye irritation Category 1
Muta. 2	Germ cell mutagenicity Category 2
Skin Corr. 1B	Skin corrosion/irritation Category 1B
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H335	May cause respiratory irritation
H341	Suspected of causing genetic defects

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NFPA health hazard	: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.
NFPA fire hazard	: 0 - Materials that will not burn.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS III Rating	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
	* - Chronic (long-term) health effects may result from repeated overexposure
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)

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is offered solely for your consideration, investigation, and verification. It does not represent any guarantee of the properties of the product nor that the hazard precautions or procedures described are the only ones which exist. SynQuest shall not be held liable or any damage resulting from handling or from contact with the above product.