

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 02-Jul-2024

Revision Number 1

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Catalog Number:	Product Description:
60-4110-XX	2.0M Triethylamine Acetate, HPLC grade, pH=7
Product Code(s) 60-4110-XX	Product Name 2M TEAA
Pure substance/mixture Contains Triethylammonium acetate	Mixture
1.2. Relevant identified uses of the	substance or mixture and uses advised against
Recommended use	No information available
Uses advised against	Not for human diagnostic use
1.3. Details of the supplier of the sa	fety data sheet
<u>Manufacturer</u> Glen Research LLC 22825 Davis Drive Sterling, VA 20164 USA	
For further information, please contact	<u>t</u>
E-mail address	support@glenresearch.com
Website	www.glenresearch.com
Company Phone Number	1-703-437-6191
1.4. Emergency telephone number	_
Emergency Telephone	CHEMTREC Customer Number (CCN): 234802 Glen Research Corporation US: 1-800-424-9300 or Local: +1-703-527-3887 EMEA: +44 20 3885 0382 APAC: +65 3163 8374

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Specific target organ toxicity (single exposure)	Category 3 - (H335, H336)
Category 3 Respiratory irritation, Narcotic effects	

2.2. Label elements

Contains Triethylammonium acetate



Warning

Hazard statements

H315 - Causes skin irritation H319 - Causes serious eye irritation H336 - May cause drowsiness or dizziness

Precautionary Statements - EU (§28, 1272/2008)

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
P264 - Wash face, hands and any exposed skin thoroughly after handling
P280 - Wear protective gloves and eye/face protection
P312 - Call a POISON CENTER or doctor if you feel unwell
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed
P501 - Dispose of contents/ container to an approved waste disposal plant

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	Weight-%	REACH registration number	· · ·	Classification according to Regulation (EC) No. 1272/2008 [CLP]	•	M-Factor	M-Factor (long-term)
Triethylammonium acetate 5204-74-0	10-30	No data available	225-995-0	No data available	-	-	-
Acetic Acid 64-19-7	7-13	No data available	(607-002-00 -6) 200-580-7	Flam. Liq. 3 (H226)	Eye Irrit. 2 :: 10%<=C<25% Skin Corr. 1A :: C>=90% Skin Corr. 1B :: 25%<=C<90% Skin Irrit. 2 :: 10%<=C<25%		-

Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate No information available

Chemical name	Oral LD50 mg/kg		Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapor - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Acetic Acid 64-19-7	3310	1060	11.4	No data available	No data available

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance.
Inhalation	Remove to fresh air. IF exposed or concerned: Get medical advice/attention. Get medical attention immediately if symptoms occur.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.
Skin contact	Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician. Not an expected route of exposure. IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
Self-protection of the first aider	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).
4.2. Most important symptoms and	effects, both acute and delayed
Symptoms	May cause redness and tearing of the eyes. Burning sensation. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.
4.3. Indication of any immediate me	edical attention and special treatment needed
Note to physicians	Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.
5.2. Special hazards arising from the	ne substance or mixture

Specific hazards arising from the No information available. chemical

Hazardous combustion products Carbon oxides. Nitrogen oxides (NOx). Ammonia.

5.3. Advice for firefighters

Special protective equipment and
precautions for fire-fightersFirefighters should wear self-contained breathing apparatus and full firefighting turnout gear.
Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing.
Other information	Refer to protective measures listed in Sections 7 and 8.
For emergency responders	Use personal protection recommended in Section 8.
6.2. Environmental precautions	
Environmental precautions	Prevent further leakage or spillage if safe to do so. For small spills absorb material on dry rags, cat litter or similar absorbent material and dispose of in the trash.
6.3. Methods and material for conta	inment and cleaning up
Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Soak up with inert absorbent material. Take up mechanically, placing in appropriate containers for disposal.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.
6.4. Reference to other sections	
Reference to other sections	See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Ensure adequate ventilation. Avoid breathing vapors or mists. In case of insufficient ventilation, wear suitable respiratory equipment.
General hygiene considerations	Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing. Handle in accordance with good industrial hygiene and safety practice. Take off contaminated clothing and wash before reuse.
7.2. Conditions for safe storage, inc	cluding any incompatibilities
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place.
7.3. Specific end use(s)	
Risk Management Methods (RMM)	The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical name	European Union	Austria	Belgium	Bu	Igaria	Croatia
Acetic Acid	STEL: 50 mg/m ³	TWA: 10 ppm	TWA: 10 ppm	STEL:	50 mg/m³	TWA: 10 ppm
64-19-7	STEL: 20 ppm	TWA: 25 mg/m ³	TWA: 25 mg/m ³	STEL:	20 ppm	TWA: 25 mg/m ³
	TWA: 25 mg/m ³	STEL 20 ppm	STEL: 15 ppm	TWA: 2	25 mg/m³	STEL: 20 ppm
	TWA: 10 ppm	STEL 50 mg/m ³	STEL: 38 mg/m ³	TWA:	10 ppm	STEL: 50 mg/m ³
Chemical name	Cyprus	Czech Republic	Denmark	Es	tonia	Finland
Acetic Acid	STEL: 50 mg/m ³	TWA: 25 mg/m ³	TWA: 10 ppm	TWA:	10 ppm	TWA: 5 ppm
64-19-7	STEL: 20 ppm	Ceiling: 50 mg/m ³	TWA: 25 mg/m ³	TWA: 2	25 mg/m³	TWA: 13 mg/m ³
	TWA: 10 ppm		STEL: 50 mg/m ³	STEL:	10 ppm	STEL: 10 ppm
	TWA: 25 mg/m ³		STEL: 20 ppm	STEL:	25 mg/m³	STEL: 25 mg/m ³
Chemical name	France	Germany TRGS	Germany DFG	Gr	eece	Hungary
Acetic Acid	TWA: 10 ppm	TWA: 10 ppm	TWA: 10 ppm	TWA:	10 ppm	TWA: 10 ppm
64-19-7	TWA: 25 mg/m ³	TWA: 25 mg/m ³	TWA: 25 mg/m ³	TWA: 2	25 mg/m³	TWA: 25 mg/m ³
	STEL: 20 ppm		Peak: 20 ppm	STEL:	15 ppm	STEL: 20 ppm
	STEL: 50 mg/m ³		Peak: 50 mg/m ³	STEL:	37 mg/m³	STEL: 50 mg/m ³
Chemical name	Ireland	Italy MDLPS	Italy AIDII	La	atvia	Lithuania
Acetic Acid	TWA: 20 ppm	TWA: 25 ppm	TWA: 10 ppm		10 ppm	TWA: 10 ppm
64-19-7	TWA: 50 mg/m ³	TWA: 10 mg/m ³	TWA: 25 mg/m ³	TWA: 2	25 mg/m³	TWA: 25 mg/m ³
	STEL: 20 ppm	STEL: 50 mg/m ³	STEL: 15 ppm	STEL:	50 mg/m³	STEL: 50 mg/m ³
	STEL: 50 mg/m ³	STEL: 20 ppm	STEL: 37 mg/m ³	STEL:	: 20 ppm	STEL: 20 ppm
Chemical name	Luxembourg	Malta	Netherlands	No	orway	Poland
Acetic Acid	STEL: 50 mg/m ³	STEL: 20 ppm	TWA: 10 ppm	TWA:	10 ppm	STEL: 50 mg/m ³
64-19-7	STEL: 20 ppm	STEL: 50 mg/m ³	TWA: 25 mg/m ³	TWA: 2	25 mg/m³	TWA: 25 mg/m ³
	TWA: 10 ppm	TWA: 10 ppm	STEL: 20 ppm	-	A+	
	TWA: 25 mg/m ³	TWA: 25 mg/m ³	STEL: 50 mg/m ³	STEL:	: 20 ppm	
				STEL:	50 mg/m³	
Chemical name	Portugal	Romania	Slovakia	Slo	venia	Spain
Acetic Acid	TWA: 10 ppm	TWA: 10 ppm	TWA: 10 ppm	TWA:	10 ppm	TWA: 10 ppm
64-19-7	TWA: 25 mg/m ³	TWA: 25 mg/m ³	TWA: 25 mg/m ³	TWA: 2	25 mg/m³	TWA: 25 mg/m ³
	STEL: 20 ppm	STEL: 20 ppm	Ceiling: 50 mg/m ³		50 mg/m ³	STEL: 20 ppm
	STEL: 50 mg/m ³	STEL: 50 mg/m ³		STEL:	: 20 ppm	STEL: 50 mg/m ³
Chemical name	S	weden	Switzerland		Uni	ted Kingdom
Acetic Acid	NG	V: 5 ppm	TWA: 10 ppm		T∖	VA: 10 ppm
64-19-7	NGV	13 mg/m ³	TWA: 25 mg/m	3	ΤW	/A: 25 mg/m ³
	Bindande	KGV: 10 ppm	STEL: 20 ppm		ST	EL: 20 ppm
	Bindande	KGV: 25 mg/m ³	STEL: 50 mg/m	3	STE	EL: 50 mg/m ³

Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL) Predicted No Effect Concentration (PNEC)	No information available. No information available.
8.2. Exposure controls	
Engineering controls	Showers Eyewash stations Ventilation systems
Personal protective equipment	

Eye/face protection	If splashes are likely to occur, wear safety glasses with side-shields.
Hand protection	Contact glove manufacturer for recommendations. Gloves must conform to standard EN 374. Wear suitable gloves. Impervious gloves.
Skin and body protection	EN ISO 6529. Wear suitable protective clothing. Long sleeved clothing.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General hygiene considerations	Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing. Handle in accordance with good industrial hygiene and safety practice. Take off contaminated clothing and wash before reuse.
Environmental exposure controls	No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties
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9.1. Information on basic physical a	nd chemical properties	
Physical state	Liquid	
Appearance	Clear liquid	
Color	Colorless	
Odor	Sweet	
Odor threshold	No information available	
Property_	Values_	Remarks • Method
Melting point / freezing point	No data available	None known
Initial boiling point and boiling rang	eNo data available	None known
Flammability	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive	No data available	
limits		
Flash point	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature		None known
pH	7 - 8	None known
pH (as aqueous solution)	No data available	No information available
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Water solubility	Completely soluble	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Vapor pressure	No data available	None known
Relative density	1.007g/mL	None known
Bulk density	No data available	
Liquid Density	No data available	
Relative vapor density	No data available	None known
Particle characteristics		
Particle Size	No information available	
Particle Size Distribution	No information available	

9.2. Other information

9.2.1. Information with regard to physical hazard classes Not applicable

9.2.2. Other safety characteristics

No information available

SECTION 10: Stability and reactivity		
10.1. Reactivity		
Reactivity	No information available.	
10.2. Chemical stability		
Stability	Stable under normal conditions.	
Explosion data Sensitivity to mechanical impac Sensitivity to static discharge	t None. None.	
10.3. Possibility of hazardous reactions		
Possibility of hazardous reactions	None under normal processing.	
10.4. Conditions to avoid		
Conditions to avoid	None known based on information supplied.	
10.5. Incompatible materials		
Incompatible materials	Strong acids. Strong bases. Strong oxidizing agents.	
10.6. Hazardous decomposition products		
Hazardous decomposition products Carbon oxides. Nitrogen oxides (NOx). Ammonia.		

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure

Product	Information
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Inhalation	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract. Not an expected route of exposure. May cause drowsiness or dizziness.
Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.
Skin contact	Specific test data for the substance or mixture is not available. Causes skin irritation. (based on components).
Ingestion	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Not an expected route of exposure.
Symptoms related to the physical,	chemical and toxicological characteristics
Symptoms	Redness. May cause redness and tearing of the eyes. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.
Acute toxicity	

Numerical measures of toxicity

No information available

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	99,999.00	
ATEmix (dermal)	99,999.00	mg/kg
ATEmix (inhalation-gas)	99,999.00	ppm
ATEmix (inhalation-dust/mist)	99,999.00	mg/l
ATEmix (inhalation-vapor)	99,999.00	mg/l

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50	
Acetic Acid	= 3310 mg/kg (Rat)	= 1060 mg/kg (Rabbit)	= 11.4 mg/L (Rat) 4 h	
Delayed and immediate effects as well as chronic effects from short and long-term exposure				
Skin corrosion/irritation	sion/irritation Classification based on data available for ingredients. Causes skin irritation.			
Serious eye damage/eye irritatio	n Classification based on data available for ingredients. Causes serious eye irritation.			
Respiratory or skin sensitization	n No information available.			
Germ cell mutagenicity	No information available.			
Carcinogenicity	No information available.			
Reproductive toxicity	No information available.	No information available.		
STOT - single exposure	May cause respiratory irritation. May cause drowsiness or dizziness.			
STOT - repeated exposure	No information available.	No information available.		
Aspiration hazard	No information available.	No information available.		
11.2. Information on other hazards				
11.2.1. Endocrine disrupting properties				
Endocrine disrupting properties	No information available.			
11.2.2. Other information				
Other adverse effects No information available.				
SECTION 12: Ecological information				
12.1. Toxicity				
Ecotoxicity	The environmental impact	The environmental impact of this product has not been fully investigated.		

Unknown aquatic toxicity Contains 0 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Acetic Acid	-	LC50: =79mg/L (96h, Pimephales promelas) LC50: =75mg/L (96h, Lepomis macrochirus)	-	EC50: =65mg/L (48h, Daphnia magna)

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation

Chemical name	Partition coefficient
Acetic Acid	-0.17

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment

Chemical namePBT and vPvB assessmentAcetic AcidThe substance is not PBT / vPvB

No information available.

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Dispose of in accordance with federal, state and local regulations. Do not reuse empty containers.

SECTION 14: Transport information

14.1	UN number or ID number	Not regulated
14.2	UN proper shipping name	Not regulated
14.3	Transport hazard class(es)	Not regulated
14.4	Packing group	Not regulated
	Environmental hazards	Not applicable
14.6	Special precautions for user	
	pecial Provisions	None

IMDG 14.1 UN number or ID number	Not regulated
14.1 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	None
14.7 Maritime transport in bulk	No information available
according to IMO instruments	
RID	NI / I / I
14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	None
Special Provisions	None
ADR	
14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	None

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH	Substance subject to authorization per
	Annex XVII	REACH Annex XIV
Acetic Acid - 64-19-7	75.	-

Persistent Organic Pollutants

Not applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

EU - Plant Protection Products (1107/2009/EC)	
Plant protection agent	
Biocidal Products Regulation (EU) No 528/2012 (BPR)	

Acetic Acid - 64-19-7	Product-type 2: Disinfectants and algaecides not intended for direct application to humans or animals Simplified procedure - Category 1
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International Inventories	
TSCA	Not determined
DSL/NDSL	Not determined
EINECS/ELINCS	Not determined
ENCS	Not determined
IECSC	Not determined
KECI	Not determined
PICCS	Not determined
AIIC	Not determined

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AIIC - Australian Inventory of Industrial Chemicals

15.2. Chemical safety assessment

Chemical Safety Report

No information available

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend

SVHC: Substances of Very High Concern for Authorization:

Legend Section 8: Exposure controls/personal protection

TWA	TWA (time-weighted average)	STEL
Ceiling	Maximum limit value	Sk*

02-Jul-2024

STEL (Short Term Exposure Limit) Skin designation

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Disclaimer

Revision date

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