

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:
60-4210-XX	2.0M Hexylammonium Acetate, HPLC grade, pH=7

Product Code(s) Product Name 60-4210-XX 2M HAA

Pure substance/mixture 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 safety data sheet

Manufacturer

Glen Research LLC 22825 Davis Drive Sterling, VA 20164 USA

For further information, please contact

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]

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

Hazard statements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

The product contains no substances which at their given concentration, are considered to be hazardous to health

Chemical name	Weight-%	· ·	,	Classification according	•	M-Factor	M-Factor
		number	Index No)	to Regulation (EC) No. 1272/2008 [CLP]	concentration limit (SCL)		(long-term)
Water 7732-18-5	47-78	[4]	231-791-2	[A]	-	-	-
Hexylammonium acetate 23239-72-7	15-40	No data available	-	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	Dermal LD50	Inhalation LC50 - 4	Inhalation LC50 - 4	Inhalation LC50 - 4
		mg/kg	hour - dust/mist - mg/L	hour - vapor - mg/L	hour - gas - ppm
Water 7732-18-5	89838.9	No data available	No data available	No data available	No data available
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 This product presents no hazards under normal conditions of use.

Inhalation Not an expected route of exposure. IF exposed or concerned: Get medical advice/attention.

Eye contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

Skin contact Wash skin with soap and water. Get medical attention if symptoms occur.

Ingestion Not an expected route of exposure. IF exposed or if you feel unwell: Call a POISON

CENTER or doctor/physician.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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 substance or mixture

Specific hazards arising from the

chemical

No information available.

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

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters

Firefighters 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.

6.2. Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

6.3. Methods and material for containment 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 Ensure adequate ventilation. Use personal protection equipment. Wash thoroughly after

handling.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry 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 LimitsThis 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	Bulgaria	Croatia
Acetic Acid	STEL: 50 mg/m ³	TWA: 10 ppm	TWA: 10 ppm	STEL: 50 mg/m ³	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: 25 mg/m ³	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	Estonia	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: 25 mg/m ³	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/m ³	STEL: 25 mg/m ³
Chemical name	France	Germany TRGS	Germany DFG	Greece	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: 25 mg/m ³	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/m ³	STEL: 50 mg/m ³
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
Acetic Acid	TWA: 20 ppm	TWA: 25 ppm	TWA: 10 ppm	TWA: 10 ppm	TWA: 10 ppm
64-19-7	TWA: 50 mg/m ³	TWA: 10 mg/m ³	TWA: 25 mg/m ³	TWA: 25 mg/m ³	TWA: 25 mg/m ³
	STEL: 20 ppm	STEL: 50 mg/m ³	STEL: 15 ppm	STEL: 50 mg/m ³	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	Norway	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: 25 mg/m ³	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/m ³	

Chemical name		Portugal	Romania	Slovakia	Slo	venia	Spain
Acetic Acid	TV	/A: 10 ppm	TWA: 10 ppm	TWA: 10 ppm	TWA:	10 ppm	TWA: 10 ppm
64-19-7	TW	A: 25 mg/m ³	TWA: 25 mg/m ³	TWA: 25 mg/m ³	TWA:	25 mg/m ³	TWA: 25 mg/m ³
	ST	EL: 20 ppm	STEL: 20 ppm	Ceiling: 50 mg/m ³	STEL:	50 mg/m ³	STEL: 20 ppm
	STE	L: 50 mg/m ³	STEL: 50 mg/m ³		STEL	: 20 ppm	STEL: 50 mg/m ³
Chemical name		Sweden		Switzerland		Uni	ted Kingdom
Acetic Acid		NG\	/: 5 ppm	TWA: 10 ppm		T۷	VA: 10 ppm
64-19-7		NGV:	13 mg/m ³	TWA: 25 mg/m	3	TW	'A: 25 mg/m ³
		Bindande KGV: 10 ppm		STEL: 20 ppm			EL: 20 ppm
		Bindande l	KGV: 25 mg/m ³	STEL: 50 mg/m	l 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 (or goggles).

Hand protection Contact glove manufacturer for recommendations. Gloves must conform to standard EN

374.

EN ISO 6529. Skin and body protection

No protective equipment is needed under normal use conditions. If exposure limits are Respiratory protection

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

No information available. **Environmental exposure controls**

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid **Appearance** Clear liquid Color Colorless Odor Sweet

No information available **Odor threshold**

<u>Values</u> **Property** Remarks • Method

Melting point / freezing point No data available None known Initial boiling point and boiling rangeNo data available None known Flammability No data available None known Flammability Limit in Air None known

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available limits

Flash point No data available None known Autoignition temperature No data available None known Decomposition temperature PH 7 None known None known None known

pH (as aqueous solution)

No data available

No information available

None known Kinematic viscosity No data available None known Dynamic viscosity No data available Completely soluble None known Water solubility No data available None known Solubility(ies) 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 impact None. Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions
None under normal processing.

10.4. Conditions to avoid

Conditions to avoidNone known based on information supplied.

10.5. Incompatible materials

Incompatible materialsNone known based on information supplied.

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

Inhalation Specific test data for the substance or mixture is not available.

Eye contact Specific test data for the substance or mixture is not available.

Skin contact Specific test data for the substance or mixture is not available.

Ingestion Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

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
 mg/kg

 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
Water	> 90 mL/kg (Rat)	-	-
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/irritationNo information available.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Aspiration hazard 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 of this product has not been fully investigated.

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

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

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 assessmentNo information available.

	Chemical name	PBT and vPvB assessment
Γ	Acetic Acid	The substance is not PBT / vPvB

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

IATA

14.1 UN number or ID number
 14.2 UN proper shipping name
 14.3 Transport hazard class(es)
 14.4 Packing group
 14.5 Environmental hazards
 Not regulated Not regulated Not applicable

14.6 Special precautions for user

Special Provisions None

IMDG

14.1 UN number or ID number
14.2 UN proper shipping name
14.3 Transport hazard class(es)
14.4 Packing group
14.5 Environmental hazards

Not regulated

Not regulated
Not regulated
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

14.1 UN number or ID number
 14.2 UN proper shipping name
 14.3 Transport hazard class(es)
 14.4 Packing group
 14.5 Environmental hazards
 Not regulated Not regulated Not applicable

14.6 Special precautions for user

Special Provisions None

ADR

14.1UN number or ID numberNot regulated14.2UN proper shipping nameNot regulated14.3Transport hazard class(es)Not regulated14.4Packing groupNot regulated14.5Environmental hazardsNot 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

procedure - Category 1

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 Annex XVII	Substance subject to authorization per REACH Annex XIV
ĺ	Acetic Acid - 64-19-7	75.	-

Persistent Organic Pollutants

Not applicable

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

Not applicable

Chemical name	EU - Plant Protection Products (1107/2009/EC)
Acetic Acid - 64-19-7	Plant protection agent
Objective Linear Control	
Chemical name	Biocidal Products Regulation (EU) No 528/2012 (BPR)
Acetic Acid - 64-19-7	Product-type 2: Disinfectants and algaecides not intended

International Inventories

Not determined **TSCA** Not determined **DSL/NDSL 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 STEL (Short Term Exposure Limit)

Ceiling Maximum limit value Sk* Skin designation

Revision date 02-Jul-2024

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

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End of Safety Data Sheet