US

Safety Data Sheet acc. to OSHA HCS

Printing date 01/31/2018

Reviewed on 01/31/2018

rinting date 01/31/2018	Reviewed on 01/31/20.
1 Identification	
· Product identifier	
• Trade name: <u>Sodium Acetate 0.1N</u> in Acetic Acid	
• Article number: UC235	
• Details of the supplier of the safety data sheet • Manufacturer/Supplier: Aqua Solutions, Inc. 6913 Highway 225	AQUA SOLUTIONS
DEER PARK, TX 77536 USA 800-256-2586	
· Information department:	
Technical Coordinator	
Sherman Nelson sherman@aquasolutions.org • Emergency telephone number:	
Chemtrec: 800-424-9300	
Canutec: 613-996-6666	
2 Hazard(s) identification	
· Classification of the substance or mixture	
GHS02 Flame	
Flam Lin 2 U226 Flammable liquid and war on	
Flam. Liq. 3 H226 Flammable liquid and vapor.	
GHS05 Corrosion	
Corrosion	
Skin Corr. 1A H314 Causes severe skin burns and eye dama	<i>9P</i> .
Eye Dam. 1 H318 Causes serious eye damage.	
GHS07	
Acute Tox. 4 H312 Harmful in contact with skin.	
· Label elements	
• GHS label elements The product is classified and labeled acc • Hazard pictograms	ording to the Globally Harmonized System (GHS).
GHS02 GHS05 GHS07	
· Signal word Danger	
Hazard-determining components of labeling:	
Acetic Acid • Hazard statements	
Flammable liquid and vapor.	
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Trade name: Sodium Acetate 0.1N in Acetic Acid

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Harmful in contact with skin.	
Causes severe skin burns and eye damage.	
• Precautionary statements Keep away from heat/sparks/open flames/hot surfaces No smoking.	
Keep away from nearsparks/open frames/not surfaces No smoking. Keep container tightly closed.	
Ground/bond container and receiving equipment.	
Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools.	
Take precautionary measures against static discharge.	
Do not breathe dusts or mists.	
Wash 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.	
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and	nd easy to do
Continue rinsing.	<i>ia casy io</i> ao.
Immediately call a poison center/doctor.	
Specific treatment (see on this label).	
Take off contaminated clothing and wash it before reuse.	
Wash contaminated clothing before reuse.	
In case of fire: Use for extinction: CO2, powder or water spray.	
Store in a well-ventilated place. Keep cool.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/international regulations.	
· Classification system:	
· NFPA ratings (scale 0 - 4)	
Health = 3	
Fire = 2	
3 0 Reactivity = 0	
· HMIS-ratings (scale 0 - 4)	
$\begin{array}{c} \text{HEALTH} \textbf{3} \\ \text{Health} = 3 \\ He$	
FIRE 2 $Fire = 2$	
REACTIVITY O Reactivity = 0	
• Other hazards	
• Results of PBT and vPvB assessment	
• PBT: Not applicable. • vPvB: Not applicable.	
3 Composition/information on ingredients	
· Chemical characterization: Mixtures	
• Description: Mixture of the substances listed below with nonhazardous additions.	
· Dangerous components:	
	00.22%
CAS: 64-19-7 Acetic Acid	99.22%
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0.78%

· Table of Nonhazardous Ingredients

CAS: 127-09-3 Sodium Acetate Anhydrous

4 First-aid measures

· Description of first aid measures

- · General information:
- Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Drink copious amounts of water and provide fresh air. Immediately call a doctor.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

Wear protective equipment. Keep unprotected persons away.	
Environmental precautions:	
Dilute with plenty of water.	
Do not allow to enter sewers/ surface or ground water.	
Methods and material for containment and cleaning up:	
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).	
Use neutralizing agent.	
Dispose contaminated material as waste according to item 13.	
Ensure adequate ventilation.	
Reference to other sections	
See Section 7 for information on safe handling.	
See Section 8 for information on personal protection equipment.	
See Section 13 for disposal information.	
Protective Action Criteria for Chemicals	
PAC-1:	
CAS: 64-19-7 Acetic Acid	5 ppm
	11 mg/m

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		(Contd. of page 3)
· PAC-2:		
CAS: 64-19-7 Acet	ic Acid	35 ppm
CAS: 127-09-3 Sodi	um Acetate Anhydrous	120 mg/m ³
· PAC-3:		
CAS: 64-19-7 Acet	ic Acid	250 ppm
CAS: 127-09-3 Sodi	um Acetate Anhydrous	700 mg/m ³

7 Handling and storage

· Handling:

- · Precautions for safe handling No special precautions are necessary if used correctly.
- · Information about protection against explosions and fires:
- Keep ignition sources away Do not smoke. Protect against electrostatic charges.
- · 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: Not required.
- · Further information about storage conditions: Keep receptacle tightly sealed.
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see item 7.

· Control parameters

· Components with limit values that require monitoring at the workplace:

CAS: 64-19-7 Acetic Acid

- PEL Long-term value: 25 mg/m³, 10 ppm
- REL Short-term value: 37 mg/m³, 15 ppm
- Long-term value: 25 mg/m³, 10 ppm
- TLV Short-term value: 37 mg/m³, 15 ppm Long-term value: 25 mg/m³, 10 ppm
- Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:
- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes.
- Avoid contact with the eyes and skin.
- · Breathing equipment: Not required.

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· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation • *Material of gloves*

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection:



Tightly sealed goggles

· Body protection: Protective work clothing

Information on basic physical and a General Information	chemical properties
Appearance:	
Form:	Liquid
Color:	Clear
Odor:	Vinegar
Odor threshold:	Not determined.
<i>pH-value at 20 °C (68 °F):</i>	2.5
Change in condition	
Melting point/Melting range:	16.6 °C (61.9 °F)
Boiling point/Boiling range:	118 °C (244.4 °F)
Flash point:	40 °C (104 °F)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	485 °C (905 °F)
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapo mixtures are possible.
Explosion limits: Lower:	4 Vol %

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Upper:	17 Vol %	
· Vapor pressure at 20 °C (68 °F):	16 hPa (12 mm Hg)	
· Density at 20 °C (68 °F):	1.05139 g/cm³ (8.77385 lbs/gal)	
· Relative density	Not determined.	
· Vapor density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
Water:	Fully miscible.	
· Partition coefficient (n-octanol/wate	r): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	99.2 %	
VOC content:	99.22 %	
	1,043.2 g/l / 8.71 lb/gl	
Solids content:	0.8 %	
• Other information	No further relevant information available.	

10 Stability and reactivity

- *Reactivity* No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- Acute toxicity:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Oral LD50 3,336 mg/kg (rat)

Dermal LD50 1,068 mg/kg (rabbit)

CAS: 64-19-7 Acetic Acid

Dermal LD50 1,100 mg/kg (ATE)

· Primary irritant effect:

- on the skin: Strong caustic effect on skin and mucous membranes.
- \cdot on the eye:
- Strong caustic effect.
- Strong irritant with the danger of severe eye injury.
- · Sensitization: No sensitizing effects known.

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· Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Harmful

Corrosive

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

· Toxicity

- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:

· General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or unneutralized.

- Results of PBT and vPvB assessment
- **PBT:** Not applicable.

· vPvB: Not applicable.

· Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

· UN-Number		
· DOT, IMDG, IATA	UN2920	

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UN proper shipping name DOT IMDG, IATA	Corrosive liquids, flammable, n.o.s. (Acetic acid, glacial) CORROSIVE LIQUID, FLAMMABLE, N.O.S. (ACETIC ACI
	GLACIAL)
Transport hazard class(es)	
DOT	
CORROSIVE 8 3	
Class	8 Corrosive substances
Label	8, 3
IMDG	
Class	8 Corrosive substances
Label	8/3
IATA	
Class	8 Corrosive substances
Label	8 (3)
Packing group	
DOT, IMDG, IATA	II
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Corrosive substances
Danger code (Kemler):	83
EMS Number:	F-E,S-C
Segregation groups	Acids
Stowage Category	E SW1 Protected from sources of heat.
Stowage Code	SW1 Froiected from sources of near. SW2 Clear of living quarters.
Transport in bulk according to Annex I MARPOL73/78 and the IBC Code	
Transport/Additional information:	
· DOT	
• DOI • Quantity limitations	On passenger aircraft/rail: 1 L
2	On cargo aircraft only: 30 L
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· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN ''Model Regulation'':	UN 2920 CORROSIVE LIQUIDS, FLAMMABLE, N.O.S. (ACETIC ACID, GLACIAL), 8 (3), II

15 Regulatory information

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara

• Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

Acetic Acid

Sodium Acetate Anhydrous

· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms*



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Signal word Danger	(Contd. of page 9)
Hazard-determining components of labeling:	
Acetic Acid	
Hazard statements	
Flammable liquid and vapor.	
Harmful in contact with skin.	
Causes severe skin burns and eye damage.	
Precautionary statements	
Keep away from heat/sparks/open flames/hot surfaces No smoking.	
Keep container tightly closed.	
Ground/bond container and receiving equipment.	
Use explosion-proof electrical/ventilating/lighting/equipment.	
Use only non-sparking tools.	
Take precautionary measures against static discharge.	
Do not breathe dusts or mists.	
Wash 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/sh	ower.
<i>IF INHALED: Remove person to fresh air and keep comfortable for breathing.</i>	
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if pr	esent and easy to do.
Continue rinsing.	
Immediately call a poison center/doctor.	
Specific treatment (see on this label).	
Take off contaminated clothing and wash it before reuse.	
Wash contaminated clothing before reuse.	
In case of fire: Use for extinction: CO2, powder or water spray.	
Store in a well-ventilated place. Keep cool.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/international regu	lations.
Chemical safety assessment: A Chemical Safety Assessment has not been carried out.	

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Environment protection department.
- · Contact:
- Date of preparation / last revision 01-31-2018: review SDS for accuracy. STN Creation date for SDS 01-28-2015. STN 01/31/2018 / Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT. US Demetricument of Forement to the second s
- DOT: US Department of Transportation IATA: International Air Transport Association
- ACGIH: American Conference of Governmental Industrial Hygienists
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- NFPA: National Fire Protection Association (USA)
- HMIS: Hazardous Materials Identification System (USA)

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VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Flam. Liq. 3: Flammable liquids – Category 3 Acute Tox. 4: Acute toxicity – Category 4 Skin Corr. 1A: Skin corrosion/irritation – Category 1