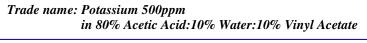
Printing date 12/12/2023

Product identifier Trade name: <u>Potassium</u> in 80% Ac	<u>2 500ppm</u> eetic Acid:10% Water:10% Vinyl Acetate	
Article number: LY513		
Details of the supplier of Manufacturer/Supplier, Aqua Solutions, Inc. 6913 Highway 225 DEER PARK, TX 77536 USA 800-256-2586		AQUA
Information departmen Technical Coordinator Sherman Nelson sherma Emergency telephone n Chemtrec: 800-424-930 Canutec: 613-996-6666	nn@aquasolutions.org umber: 0	
Hazard(s) identifica	ition	
maxima (s) mennifica		
Classification of the sul	stance or mixture	
Classification of the sul		
GHS02 Flame		
GHS02 Flame	e H225 Highly flammable liquid and vapor.	
GHS02 Flamo Flammable Liquids 2 GHS08 Healt	e H225 Highly flammable liquid and vapor.	
GHS02 Flamo Flammable Liquids 2 GHS08 Healt	e H225 Highly flammable liquid and vapor. h hazard H351 Suspected of causing cancer.	
GHS02 Flamo Flammable Liquids 2 GHS08 Healt Carcinogenicity 2	e H225 Highly flammable liquid and vapor. h hazard H351 Suspected of causing cancer.	
GHS02 Flamo Flammable Liquids 2 GHS08 Healt Carcinogenicity 2 GHS05 Corro	e H225 Highly flammable liquid and vapor. h hazard H351 Suspected of causing cancer.	
GHS02 Flamo Flammable Liquids 2 GHS08 Healt Carcinogenicity 2 GHS05 Corro Skin Corrosion 1B	e H225 Highly flammable liquid and vapor. h hazard H351 Suspected of causing cancer. psion H314 Causes severe skin burns and eye damag	
GHS02 Flamo Flammable Liquids 2 GHS08 Healt Carcinogenicity 2 GHS05 Corro Skin Corrosion 1B Eye Damage 1 GHS07	e H225 Highly flammable liquid and vapor. h hazard H351 Suspected of causing cancer. psion H314 Causes severe skin burns and eye damag	1e.
GHS02 Flamo Flammable Liquids 2 GHS08 Healt Carcinogenicity 2 GHS05 Corro Skin Corrosion 1B Eye Damage 1 GHS07	e H225 Highly flammable liquid and vapor. h hazard H351 Suspected of causing cancer. osion H314 Causes severe skin burns and eye damag H318 Causes serious eye damage.	e.

Printing date 12/12/2023





Printing date 12/12/2023

Reviewed on 12/12/2023

Trade name: Potassium 500ppm in 80% Acetic Acid:10% Water:10% Vinyl Acetate

(Contd. of page 2)

· HMIS-ratings (scale 0 - 4)

HEALTH
$$3$$
Health = 3FIRE 3 Fire = 3REACTIVITY 0 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:		
CAS: 64-19-7 Acetic Acid, Glacial	81.293%	
CAS: 108-05-4 Vinyl Acetate, Reagent Grade	9.013%	
· Table of Nonhazardous Ingredients		
CAS: 7732-18-5 Water	9.573%	
CAS: 127-08-2 Potassium Acetate	0.121%	

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:

Supply fresh air and to be sure call for a doctor.

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

During heating or in case of fire poisonous gases are produced.

(Contd. on page 4)

US

(Contd. of page 3)

Safety Data Sheet acc. to OSHA HCS

Printing date 12/12/2023

Reviewed on 12/12/2023

Trade name: Potassium 500ppm

in 80% Acetic Acid:10% Water:10% Vinyl Acetate

· Advice for firefighters

· Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

•	ory protective device.	
	e equipment. Keep unprotected persons away.	
Environmental		
	oduct to reach sewage system or any water course.	
	ve authorities in case of seepage into water course or sewage system.	
Dilute with plen	uy of water. enter sewers/ surface or ground water.	
	paterial for containment and cleaning up:	
	uid-binding material (sand, diatomite, acid binders, universal binders, sawdust).	
Use neutralizin		
	inated material as waste according to section 13.	
Ensure adequa		
Reference to ot		
	or information on safe handling.	
See Section 8 fo	or information on personal protection equipment.	
	for disposal information.	
Protective Action	on Criteria for Chemicals	
PAC-1:		
CAS: 64-19-7	Acetic Acid, Glacial	5 ppm
CAS: 108-05-4		
0110. 100 00-4	Vinyl Acetate, Reagent Grade	6.7 ppm
	Vinyl Acetate, Reagent Grade Potassium Acetate	6.7 ppm 9.8 mg/n
CAS: 127-08-2 PAC-2:		
CAS: 127-08-2 PAC-2: CAS: 64-19-7	Potassium Acetate	9.8 mg/n
CAS: 127-08-2 PAC-2: CAS: 64-19-7 CAS: 108-05-4	Potassium Acetate Acetic Acid, Glacial	9.8 mg/n 35 ppm 36 ppm
CAS: 127-08-2 PAC-2: CAS: 64-19-7 CAS: 108-05-4	Potassium Acetate Acetic Acid, Glacial Vinyl Acetate, Reagent Grade	9.8 mg/n 35 ppm
CAS: 127-08-2 PAC-2: CAS: 64-19-7 CAS: 108-05-4 CAS: 127-08-2 PAC-3:	Potassium Acetate Acetic Acid, Glacial Vinyl Acetate, Reagent Grade	9.8 mg/n 35 ppm 36 ppm
CAS: 127-08-2 PAC-2: CAS: 64-19-7 CAS: 108-05-4 CAS: 127-08-2 PAC-3: CAS: 64-19-7	Potassium Acetate Acetic Acid, Glacial Vinyl Acetate, Reagent Grade Potassium Acetate	9.8 mg/n 35 ppm 36 ppm 110 mg/n

7 Handling and storage

· Handling:

• **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols.

• Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep respiratory protective device available.

(Contd. on page 5)

US

Printing date 12/12/2023

Reviewed on 12/12/2023

Trade name: Potassium 500ppm

in 80% Acetic Acid:10% Water:10% Vinyl Acetate

(Contd. of page 4)

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles.
- *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 section 7.

· Control parameters

 \cdot Components with limit values that require monitoring at the workplace:

CAS: 64-19-7 Acetic Acid, Glacial

- 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: 15 ppm Long-term value: 10 ppm

CAS: 108-05-4 Vinyl Acetate, Reagent Grade

REL Ceiling limit value: 15* mg/m³, 4* ppm *15-min

TLV Short-term value: 15 ppm Long-term value: 10 ppm A3

• 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. Store protective clothing separately. Avoid contact with the eyes. Avoid contact with the eyes and skin.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

• 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

(Contd. on page 6)

US

Printing date 12/12/2023

Reviewed on 12/12/2023

Trade name: Potassium 500ppm

in 80% Acetic Acid:10% Water:10% Vinyl Acetate

(Contd. of page 5)

· 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 of General Information	chemical properties
Appearance:	
Form:	Liquid
Color:	Clear
Odor:	Acetic Acid
Odor threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	72-73 °C (161.6-163.4 °F)
Flash point:	-8 °C (17.6 °F)
Flammability (solid, gaseous):	Highly flammable.
Auto igniting:	425 °C (797 °F)
Decomposition temperature:	Not determined.
Ignition temperature:	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 %
Upper:	17 Vol %
Vapor pressure at 20 °C (68 °F):	16 hPa (12 mm Hg)
Density at 20 °C (68 °F):	1.03783 g/cm ³ (8.66069 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Fully miscible.

Printing date 12/12/2023

Reviewed on 12/12/2023

Trade name: Potassium 500ppm in 80% Acetic Acid:10% Water:10% Vinyl Acetate

	(Contd. of	page
Partition coefficient (n-octan	ol/water): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	81.3 %	
Water:	9.6 %	
VOC content:	81.29 %	
	843.7 g/l / 7.04 lb/gal	
Solids content:	0.1 %	
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.
- \cdot 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)

Dermal LD50 1,304 mg/kg (rabbit)

Inhalative LC50/4h 122 mg/l

• Primary irritant effect:

• on the skin: Caustic effect on skin and mucous membranes.

• on the eye:

Strong caustic effect.

Strong irritant with the danger of severe eye injury.

- Sensitization: Sensitization possible through skin contact.
- · 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.

(Contd. on page 8)

US

Printing date 12/12/2023

Reviewed on 12/12/2023

Trade name: Potassium 500ppm

in 80% Acetic Acid:10% Water:10% Vinyl Acetate

(Contd. of page 7)

2B

- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

CAS: 108-05-4 Vinyl Acetate, Reagent Grade

· 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 2 (Self-assessment): hazardous for water
- Do not allow product to reach ground water, water course or sewage system.
- Must not reach bodies of water or drainage ditch undiluted or unneutralized.
- Danger to drinking water if even small quantities leak into the ground.
- · 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
· UN proper shipping name	
DOT	<i>Corrosive liquids, flammable, n.o.s. (Acetic Acid, Glacial , vinyl acetate)</i>
· IMDG, IATA	CORROSIVE LIQUID, FLAMMABLE, N.O.S. (Acetic Acid
	Glacial
	, vinyl acetate)

Printing date 12/12/2023

Trade name: Potassium 500ppm	
in 80% Acetic Acid:10% Water:10% Vinyl Ac	etate

		of pa
Transport hazard class(es)		
DOT		
3		
Class	8 Corrosive substances	
Label	3, 8	
IMDG		
3		
Class	8 Corrosive substances	
Label	3/8	
IATA		
3		
Class	8 Corrosive substances	
Label	3 (8)	
Packing group DOT, IMDG, IATA	11	
Environmental hazards:	Not applicable.	
Special precautions for user Hazard identification number (Kemler code):	Warning: Corrosive substances	
EMS Number:	<i>F-E,S-C</i>	
Segregation groups	(SGG18) Alkalis	
Stowage Category	B	
Stowage Code	SW2 Clear of living quarters.	
Segregation Code	SG35 Stow "separated from" SGG1-acids	
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.	
Transport/Additional information:		
DOT		
Quantity limitations	On passenger aircraft/rail: 1 L	
	On cargo aircraft only: 5 L	
IMDG		
Limited quantities (LQ)	1L	
Excepted quantities (EQ)	Code: E2	
	Maximum net quantity per inner packaging: 30 ml	
	Maximum net quantity per outer packaging: 500 ml	
		pag

ACID, GLACIAL

, VINYL ACETATE), 3 (8), II

Printing date 12/12/2023

· UN "Model Regulation":

Reviewed on 12/12/2023

UN 2920 CORROSIVE LIQUID, FLAMMABLE, N.O.S. (ACETIC

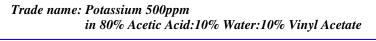
Trade name: Potassium 500ppm in 80% Acetic Acid:10% Water:10% Vinyl Acetate

(Contd. of page 9)

Regulatory information	
Safety, health and environmental regulations/legislation specific for the substa No further relevant information available. Sara	ince or mixture
Section 355 (extremely hazardous substances):	
CAS: 108-05-4 Vinyl Acetate, Reagent Grade	
Section 313 (Specific toxic chemical listings):	
CAS: 108-05-4 Vinyl Acetate, Reagent Grade	
TSCA (Toxic Substances Control Act):	
Acetic Acid, Glacial	ACTI
Water	ACTI
Vinyl Acetate, Reagent Grade	ACTI
Potassium Acetate	ACTI
Hazardous Air Pollutants	·
CAS: 108-05-4 Vinyl Acetate, Reagent Grade	
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)	
CAS: 108-05-4 Vinyl Acetate, Reagent Grade	
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 Glob	ally Harmonized System (GHS

Printing date 12/12/2023

Reviewed on 12/12/2023





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.

Printing date 12/12/2023

Trade name: Potassium 500ppm	
in 80% Acetic Acid:10% Water:10% Vinyl Acetate	

	(Contd. of page 11)
· Contact:	
Date of Preparation / Last Revision:	
Date of preparation / last revision	
Revision 0.0, 12-12-2023: creation date for SDS_STN/CMC	
12/12/2023	
· Abbreviations and acronyms:	
IMDG: International Maritime Code for Dangerous Goods	
DOT: US Department of Transportation	
IATA: International Air Transport Association	
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)	
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	
Flammable Liquids 2: Flammable liquids – Category 2	
Acute Toxicity - Dermal 4: Acute toxicity – Category 4	
Skin Corrosion 1B: Skin corrosion/irritation – Category 1B	
Eye Damage 1: Serious eye damage/eye irritation – Category 1	
Sensitization - Skin 1: Skin sensitisation – Category 1	
Carcinogenicity 2: Carcinogenicity – Category 2	
	US