Printing date 07/19/2024

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Reviewed on 07/19/2024

Identification Product identifier		
Trade name: Crystal Vie	olet A Acetic Acid	
Article number: DC519		
Details of the supplier of Manufacturer/Supplier: Aqua Solutions, Inc. 6913 Highway 225 DEER PARK, TX 77536 USA 800-256-2586		AQUA
Information department Technical Coordinator Sherman Nelson sherman Emergency telephone nu Chemtrec: 800-424-9300 Canutec: 613-996-6666	nn@aquasolutions.org umber:	
Hazard(s) identifica		
Classification of the sub		
Flammable Liquids 3	H226 Flammable liquid and vapor.	
GHS08 Healt	h hazard	
Carcinogenicity 2	H351 Suspected of causing cancer.	
GHS05 Corro	sion	
Skin Corrosion 1A Eye Damage 1	H314 Causes severe skin burns and eye damag H318 Causes serious eye damage.	<i>3e.</i>
GHS07		
Acute Toxicity - Dermal	4 H312 Harmful in contact with skin.	
Sensitization - Skin 1	H317 May cause an allergic skin reaction.	
Skill		

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Trade name: Crystal Violet 1% W/V in Acetic Acid Reviewed on 07/19/2024

(Contd. of page 1) · Hazard pictograms GHS02 GHS05 GHS07 GHS08 · Signal word Danger · Hazard-determining components of labeling: Acetic Acid, Glacial Crystal Violet (Gentian Violet ) C.I. 42555 · Hazard statements Flammable liquid and vapor. Harmful in contact with skin. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Suspected of causing cancer. · Precautionary statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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. Contaminated work clothing must not be allowed out of the workplace. *Wear protective gloves/protective clothing/eve 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 easy to do. Continue rinsing. Immediately call a poison center/doctor. IF exposed or concerned: Get medical advice/attention. Specific treatment (see on this label). Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. In case of fire: Use CO2, powder or water spray to extinguish. 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 = 3Fire = 2Reactivity = 0

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Trade name: Crystal Violet 1% W/V in Acetic Acid

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99.047%

0.953%

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· HMIS-ratings (scale 0 - 4)

HEALTH
$$3$$
Health =  $3$ FIRE $2$ Fire =  $2$ REACTIVITY $0$ 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

CAS: 548-62-9 Crystal Violet (Gentian Violet ) C.I. 42555

### 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.
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

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#### Trade name: Crystal Violet 1% W/V in Acetic Acid

(Contd. of page 3)

· Personal precautions, protective equipment and emergency procedures	
Mount respiratory protective device.	
Wear protective equipment. Keep unprotected persons away.	
· Environmental precautions:	
Do not allow product to reach sewage system or any water course.	
Inform respective authorities in case of seepage into water course or sewage system.	
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, saw	edust).
Use neutralizing agent.	
Dispose contaminated material as waste according to section 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, Glacial	5 ppr
· PAC-2:	
CAS: 64-19-7 Acetic Acid, Glacial	35 ppn
· PAC-3:	
CAS: 64-19-7 Acetic Acid, Glacial	250 ppn

# 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 chout protoction against employing and
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep respiratory protective device available.
- · 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 section 7.

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Trade name: Crystal Violet 1% W/V in Acetic Acid

(Contd. of page 4) · Control parameters · Components with limit values that require monitoring at the workplace: The following constituent is the only constituent of the product which has a PEL, TLV or other recommended *exposure limit.* At this time, the remaining constituent has no known exposure limits. CAS: 64-19-7 Acetic Acid, Glacial PEL Long-term value: 25 mg/m<sup>3</sup>, 10 ppm *REL* Short-term value: 37 mg/m<sup>3</sup>, 15 ppm Long-term value: 25 mg/m<sup>3</sup>, 10 ppm TLV Short-term value: 15 ppm Long-term value: 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. 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 · 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:

• **Body protection:** Protective work clothing

Tightly sealed goggles

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Trade name: Crystal Violet 1% W/V in Acetic Acid

(Contd. of page 5)

· Information on basic physical and c	hemical properties
· General Information	
· Appearance: Form:	1::1
Form: Color:	Liquid Violet
· Odor:	Vinegar
• Odor threshold:	Not determined.
• pH-value at 20 °C (68 °F):	2.5
· Change in condition	
Melting point/Melting range:	16.6 °C (61.9 °F)
<b>Boiling point/Boiling range:</b>	118 °C (244.4 °F)
· Flash point:	40 °C (104 °F)
· Flammability (solid, gaseous):	Flammable.
· Auto igniting:	485 °C (905 °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):	1.0469 g/cm <sup>3</sup> (8.73638 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
$\cdot$ Solubility in / Miscibility with	
Water:	Fully miscible.
· Partition coefficient (n-octanol/wate	<b>r</b> ): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	99.0 %
VOC content:	99.05 %
	1,036.9 g/l / 8.65 lb/gal
Solids content:	1.0 %
• Other information	No further relevant information available.

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Trade name: Crystal Violet

1% W/V in Acetic Acid

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### **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)

Dermal LD50 1,070 mg/kg (rabbit)

· 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: 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.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

CAS: 548-62-9 Crystal Violet (Gentian Violet ) C.I. 42555

· 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.

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2B

<sup>–</sup> US

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#### Trade name: Crystal Violet 1% W/V in Acetic Acid

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#### · Additional ecological information:

· General notes:

Water hazard class 3 (Self-assessment): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities. Must not reach bodies of water or drainage ditch undiluted or unneutralized. Danger to drinking water if even extremely 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:

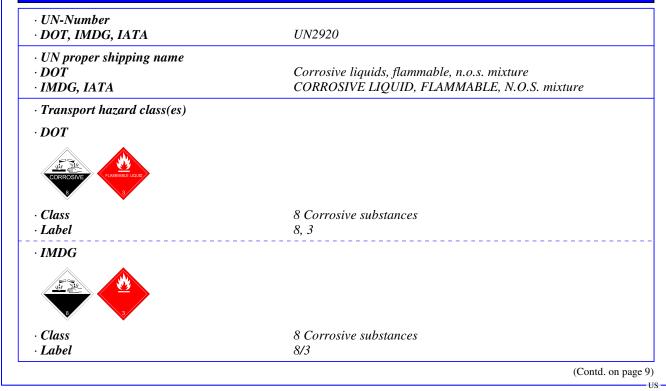
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packagings:

· Recommendation: Disposal must be made according to official regulations.

• Recommended cleansing agent: Water, if necessary with cleansing agents.

## 14 Transport information



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## Trade name: Crystal Violet 1% W/V in Acetic Acid

	(Contd. of page
·IATA	
· Class	8 Corrosive substances
· Label	8 (3)
· Packing group · DOT, IMDG, IATA	11
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Corrosive substances
Hazard identification number (Kemler code)	
EMS Number:	F-E,S-C
Segregation groups	(SGG1) Acids
Stowage Category	Ε
Stowage Code	SW1 Protected from sources of heat.
	SW2 Clear of living quarters.
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: 30 L
IMDG	
Limited quantities (LQ)	1L
$\cdot$ Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN ''Model Regulation'':	UN 2920 CORROSIVE LIQUID, FLAMMABLE, N.O.S MIXTURE, 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, Glacial

· Hazardous Air Pollutants

None of the ingredients is listed.

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ACTIVE

US –

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Reviewed on 07/19/2024

Trade name: Crystal Violet

1% W/V in Acetic Acid

(Contd. of page 9)

### · Proposition 65

 $\cdot$  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.

 $\cdot$  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)

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* 



· Signal word Danger

· Hazard-determining components of labeling: Acetic Acid, Glacial Crystal Violet (Gentian Violet ) C.I. 42555 · Hazard statements Flammable liquid and vapor. Harmful in contact with skin. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Suspected of causing cancer. · Precautionary statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Rinse mouth. Do NOT induce vomiting.

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### Trade name: Crystal Violet 1% W/V in Acetic Acid

(Contd. of page 10) 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 easy to do. Continue rinsing. Immediately call a poison center/doctor. IF exposed or concerned: Get medical advice/attention. Specific treatment (see on this label). Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. In case of fire: Use CO2, powder or water spray to extinguish. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · National regulations: · Additional classification according to Decree on Hazardous Materials: Carcinogenic hazardous material group III (dangerous).

· 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: · Date of preparation / last revision Revision 1.2 07/19/2024: Reviewed SDS for accuracy. MH/STN Creation date for SDS 07-28-2016. STN 07/19/2024 / 1.1 · 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: verv Persistent and verv 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 3: Flammable liquids – Category 3 Acute Toxicity - Dermal 4: Acute toxicity - Category 4 Skin Corrosion 1A: Skin corrosion/irritation - Category 1A Eye Damage 1: Serious eye damage/eye irritation - Category 1 Sensitization - Skin 1: Skin sensitisation - Category 1 Carcinogenicity 2: Carcinogenicity – Category 2 • \* Data compared to the previous version altered.