Printing date 06/04/2024

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Reviewed on 06/04/2024

Identification	
Product identifier	
Trade name: Sodium Persulfate	
10% w/v Solution	
Article number: UC230	
Details of the supplier of the safety data sheet	
Manufacturer/Supplier: Aqua Solutions, Inc.	AQUA
6913 Highway 225	SOLUTIONS
DEER PARK, TX 77536	
USA	
800-256-2586	
Information department:	
Technical Coordinator Sherman Nelson shermann@aquasolutions.org	
Technical Coordinator	
Sherman Nelson shermann@aquasolutions.org	
Emergency telephone number:	
Chemtrec: 800-424-9300 Canutec: 613-996-6666	
Classification of the substance or mixture	
Classification of the substance or mixture GHS03 Flame over circle	
GHS03 Flame over circle	
<i>Oxidizing Liquids 2</i> H272 May intensify fire; oxidizer.	ymptoms or breathing difficulties if inhaled.
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GHS03 Flame over circle Oxidizing Liquids 2 H272 May intensify fire; oxidizer. Image: Comparison of the system o	ction.

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Safety Data Sheet acc. to OSHA HCS

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Trade name: Sodium Persulfate 10% w/v Solution

(Contd. of page 1) · Hazard statements May intensify fire; oxidizer. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. · Precautionary statements Keep away from heat. Keep/Store away from clothing/combustible materials. Take any precaution to avoid mixing with combustibles. Avoid breathing dust/fume/gas/mist/vapors/spray Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. [In case of inadequate ventilation] wear respiratory protection. If on skin: Wash with plenty of water. If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see on this label). If experiencing respiratory symptoms: Call a poison center/doctor. Wash contaminated clothing before reuse. In case of fire: Use CO2, powder or water spray to extinguish. Dispose of contents/container in accordance with local/regional/national/international regulations. · Classification system: · NFPA ratings (scale 0 - 4) Health = 0Fire = 0Reactivity = 1The substance possesses oxidizing properties. · HMIS-ratings (scale 0 - 4)

· Other hazards

· Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· vPvB: Not applicable.

3 Composition/information on ingredients

1

· Chemical characterization: Mixtures

· Table of Nonhazardous Ingredients

• Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:

CAS: 7732-18-5 Water

CAS: 7775-27-1 Sodium Persulfate

9.438%

90.562%

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Trade name: Sodium Persulfate 10% w/v Solution

(Contd. of page 2)

4 First-aid measures

- · Description of first aid measures
- 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.
- After swallowing: If symptoms persist consult 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: Use fire fighting measures that suit the environment.
- · 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

· Personal precautions, protective equipment and emergency procedures Not required.

- 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). 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: 7775-27-1 Sodium Persulfate

· PAC-2:

CAS: 7775-27-1 Sodium Persulfate

· PAC-3:

CAS: 7775-27-1 Sodium Persulfate

(Contd. on page 4)

 0.3 mg/m^3

 $8.2 mg/m^3$

49 mg/m³

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Trade name: Sodium Persulfate 10% w/v Solution

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7 Handling and storage

- · Handling:
- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- Information about protection against explosions and fires: No special measures required.
- · 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: None.
- · 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
- · Components with limit values that require monitoring at the workplace:

CAS: 7775-27-1 Sodium Persulfate

TLV Long-term value: 0.1 mg/m³

as persulfate

• 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.

• 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.

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Trade name: Sodium Persulfate 10% w/v Solution

• *Eye protection: Goggles recommended during refilling.* • *Body protection: Protective work clothing*

9 Physical and chemical properties

Appearance:Solution CelearPorm:OdorlessOdor:OdorlessOdor threshold:Not determined.PH-value:Not determined.PH-value:Undetermined.Change in condition Melting point/Melting range:Undetermined.PH-value:Not applicable.Flash point:Not applicable.Flash point:Not applicable.Flash point:Not determined.Auto igniting:>600 °C (>1,112 °F)Decomposition temperature:Not determined.Ignition temperature:Product is not selfigniting.Danger of explosion:Product does not present an explosion hazard.Explosion limits: Lower:Not determined.Upper:Not determined.Vapor pressure at 20 °C (68 °F):1.00865 g/cm³ (8.41718 lbs/gal)Relative densityNot determined.Vapor densityNot determined.Vapor densityNot determined.Solubility in / Miscibility with Water:Not determined.Solubility in / Miscibility with Water:Fully miscibile.Partition coefficient (n-octanol/water):Not determined.	· Information on basic physical and c	chemical properties
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0.0 g/l / 0.00 lb/gal		
	VOC content:	
Solids content: 9.4 %		0.0 g/l / 0.00 lb/gal
	Solids content:	9.4 %
(Contd. on page		(Contd. on page

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Trade name: Sodium Persulfate

10% w/v Solution

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• 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 9,748 mg/kg (*rat*)

- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- · Sensitization:

Sensitization possible through inhalation.

Sensitization possible through skin contact.

· Additional toxicological information:

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

Irritant

· 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.

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· 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. • 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.

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UN-Number DOT, IMDG, IATA	UN3139
UN proper shipping name DOT IMDG, IATA	Oxidizing liquid, n.o.s. (Sodium Persulfate) OXIDIZING LIQUID, N.O.S. (Sodium Persulfate)
Transport hazard class(es)	
DOT OKIDIZER	
Class Label	5.1 Oxidizing substances 5.1
IMDG, IATA	
Class	5.1 Oxidizing substances
Label	5.1
Packing group DOT, IMDG, IATA	III
Environmental hazards: Marine pollutant:	No
Special precautions for user	Warning: Oxidizing substances

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	(Contd. of page
· Stowage Category	В
· Segregation Code	SG38 Stow "separated from" SGG2-ammonium compounds.
	SG49 Stow "separated from" SGG6-cyanides
	SG60 Stow "separated from" SGG16-peroxides
• 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: 2.5 L
	On cargo aircraft only: 30 L
· IMDG	
· Limited quantities (LQ)	5L
\cdot Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 3139 OXIDIZING LIQUID, N.O.S. (SODIUM PERSULFATE
	5.1, III

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

· Section 355	(extremely	hazardous	substances):
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None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

• TSCA (Toxic Substances Control Act):

Water

Sodium Persulfate

· Hazardous Air Pollutants

None of the ingredients is listed.

· 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.

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ACTIVE

ACTIVE

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•	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: Sodium Persulfate · Hazard statements May intensify fire; oxidizer. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. · Precautionary statements Keep away from heat. Keep/Store away from clothing/combustible materials. Take any precaution to avoid mixing with combustibles. Avoid breathing dust/fume/gas/mist/vapors/spray Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. [In case of inadequate ventilation] wear respiratory protection. If on skin: Wash with plenty of water. If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see on this label). If experiencing respiratory symptoms: Call a poison center/doctor. Wash contaminated clothing before reuse. In case of fire: Use CO2, powder or water spray to extinguish. Dispose of contents/container in accordance with local/regional/national/international regulations. · 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, 06/03/2024: Reviewed SDS for accuracy. MH/STN Revision 0.0,02-24-2021 Creation date for SDS. STN

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• 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 Oxidizing Liquids 2: Oxidizing liquids - Category 2 Sensitization - Respiratory 1: Respiratory sensitisation - Category 1 Sensitization - Skin 1: Skin sensitisation - Category 1 \cdot * Data compared to the previous version altered.

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