Printing date 07/24/2024

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### **1** Identification

- · Product identifier
- Trade name: <u>Color Reagent (Contains Ferrozine,</u> Sodium Acetate and Acetic Acid) Helium Purged
- · Article number: OLI008
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier: Aqua Solutions, Inc. 6913 Highway 225 DEER PARK, TX 77536 USA 800-256-2586
- Information department: Technical Coordinator Sherman Nelson shermann@aquasolutions.org
- *Emergency telephone number:* Chemtrec: 800-424-9300 Canutec: 613-996-6666

### 2 Hazard(s) identification

· Classification of the substance or mixture



Sensitization - Skin 1 H317 May cause an allergic skin reaction.

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



#### • Signal word Warning

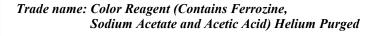
- · Hazard-determining components of labeling:
- Acetic Acid, Glacial
- Hazard statements
- May cause an allergic skin reaction.
- · Precautionary statements
- Avoid breathing dust/fume/gas/mist/vapors/spray
- Contaminated work clothing must not be allowed out of the workplace.
- Wear protective gloves.
- If swallowed: Call a poison center/doctor if you feel unwell.
- If on skin: Wash with plenty of water.
- If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Dispose of contents/container in accordance with local/regional/national/international regulations.

(Contd. on page 2)

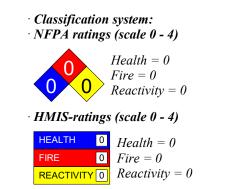
US

Printing date 07/24/2024

Reviewed on 07/24/2024



(Contd. of page 1)



#### · 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 Ace	etic Acid, Glacial	4.487%		
· Table of Nonhazardous Ingredients				
CAS: 7732-18-5	Water	48.532%		
CAS: 6131-90-4	Sodium Acetate Trihydrate	46.875%		
CAS: 28048-33-1		0.107%		
	Disodium 4,4'-[3-(Pyridin-2-yl)-1,2,4-Triazine-5,6-Diyl]bis(Benzenesulphonate)			

#### 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. Then consult a doctor.
- · 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.

(Contd. on page 3)

Printing date 07/24/2024

Reviewed on 07/24/2024

(Contd. of page 2)

Trade name: Color Reagent (Contains Ferrozine, Sodium Acetate and Acetic Acid) Helium Purged

· Advice for firefighters

· Protective equipment: No special measures required.

### 6 Accidental release measures

	tions, protective equipment and emergency procedures Not required.					
Environmental p						
Dilute with plent						
	enter sewers/ surface or ground water.					
	terial 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 oth						
See Section 7 for information on safe handling.						
	See Section 8 for information on personal protection equipment.					
	r disposal information.					
• Protective Action	1 Criteria for Chemicals					
· PAC-1:						
CAS: 6131-90-4	Sodium Acetate Trihydrate	11 mg/m <sup>3</sup>				
CAS: 64-19-7	Acetic Acid, Glacial	5 ppm				
· PAC-2:	· PAC-2:					
CAS: 6131-90-4	Sodium Acetate Trihydrate	120 mg/m <sup>3</sup>				
CAS: 64-19-7	Acetic Acid, Glacial	35 ppm				
· PAC-3:						
CAS: 6131-90-4	Sodium Acetate Trihydrate	690 mg/m <sup>3</sup>				
CAS: 64-19-7	Acetic Acid, Glacial	250 ppm				

### 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.

(Contd. on page 4)

US

Printing date 07/24/2024

· pH-value:

Reviewed on 07/24/2024

Trade name: Color Reagent (Contains Ferrozine, Sodium Acetate and Acetic Acid) Helium Purged

(Contd. of page 3)

(Contd. on page 5)

US

Control parameters	
	es that require monitoring at the workplace:
CAS: 64-19-7 Acetic Acid, G	
PEL Long-term value: 25 mg	g/m <sup>3</sup> , 10 ppm
REL Short-term value: 37 mg	g/m <sup>3</sup> . 15 ppm
Long-term value: 25 mg	
TLV Short-term value: 15 pp	
Long-term value: 10 pp	
	lists that were valid during the creation were used as basis.
Exposure controls	
Personal protective equipment	nt:
General protective and hygie	
Immediately remove all soiled	
Wash hands before breaks an	<i>id at the end of work.</i>
Breathing equipment:	
	ow pollution use respiratory filter device. In case of intensive or longer exposure
	that is independent of circulating air.
Protection of hands:	
1 I I I I I I I I I I I I I I I I I I I	
<i>Protective gloves</i>	
The glove material has to be	impermeable and resistant to the product/ the substance/ the preparation.
	mmendation to the glove material can be given for the product/ the preparation/
chemical mixture.	
Selection of the glove materia	al on consideration of the penetration times, rates of diffusion and the degradation
Material of gloves	
The selection of the suitable g	gloves does not only depend on the material, but also on further marks of quality of
	manufacturer. As the product is a preparation of several substances, the resistanc
	e calculated in advance and has therefore to be checked prior to the application.
Penetration time of glove ma	
_	ne has to be found out by the manufacturer of the protective gloves and has to
observed.	1 1 1
Eye protection: Goggles reco	
<b>Body protection:</b> Protective v	work cloining
Physical and chemical p	properties
Information on basic physics	al and chemical properties
General Information	
Appearance:	
Form:	Liquid
Color:	Yellow
0.1	Vinegar
Odor:	v inegur

Not determined.

Printing date 07/24/2024

Reviewed on 07/24/2024

#### Trade name: Color Reagent (Contains Ferrozine, Sodium Acetate and Acetic Acid) Helium Purged

	(Contd.	of page
Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. 100 °C (212 °F)	
· Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not applicable.	
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: Upper:	Not determined. Not determined.	
Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate	1.21331 g/cm³ (10.12507 lbs/gal) Not determined. Not determined. Not determined.	
Solubility in / Miscibility with Water:	Fully miscible.	
Partition coefficient (n-octanol/wate	er): Not determined.	
Viscosity: Dynamic: Kinematic:	Not determined. Not determined.	
Solvent content: Organic solvents: Water:	4.5 % 48.5 %	
VOC content:	4.49 % 54.4 g/l / 0.45 lb/gal	
Solids content:	47.0 %	
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.

(Contd. on page 6)

Printing date 07/24/2024

Reviewed on 07/24/2024

Trade name: Color Reagent (Contains Ferrozine,

Sodium Acetate and Acetic Acid) Helium Purged

(Contd. of page 5)

## **11 Toxicological information**

· Information on toxicological effects

• Acute toxicity:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Dermal LD50 23,623 mg/kg (rabbit)

### · Primary irritant effect:

- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: Sensitization possible through skin contact.
- · Additional toxicological information:

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

(Contd. on page 7)

Printing date 07/24/2024

Reviewed on 07/24/2024

(Contd. of page 6)

Trade name: Color Reagent (Contains Ferrozine, Sodium Acetate and Acetic Acid) Helium Purged

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

UN-Number DOT, ADN, IMDG, IATA	Not regulated	
UN proper shipping name DOT, ADN, IMDG, IATA	Not regulated	
Transport hazard class(es)		
DOT, ADN, IMDG, IATA Class	Not regulated	
Packing group DOT, IMDG, IATA	Not regulated	
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.	
UN "Model Regulation":	Not regulated	

# **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):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

Water	ACTIVE
Acetic Acid, Glacial	ACTIVE
Ferrozine	ACTIVE
Disodium 4,4'-[3-(Pyridin-2-yl)-1,2,4-Triazine-5,6-Diyl]bis(Benzenesulphonate)	

· 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.

(Contd. on page 8)

<sup>-</sup> US

Printing date 07/24/2024

Reviewed on 07/24/2024

Trade name: Color Reagent (Contains Ferrozine, Sodium Acetate and Acetic Acid) Helium Purged

(Contd. of page 7)

· 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 Warning

• *Hazard-determining components of labeling: Acetic Acid, Glacial* 

· Hazard statements

May cause an allergic skin reaction.

· Precautionary statements

Avoid breathing dust/fume/gas/mist/vapors/spray

Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves.

If swallowed: Call a poison center/doctor if you feel unwell.

If on skin: Wash with plenty of water.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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, 07-24-2024: Reviewed SDS for accuracy. STN/GW 07/24/2024 / 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)

(Contd. on page 9)

<sup>-</sup> US

Printing date 07/24/2024

Reviewed on 07/24/2024

#### Trade name: Color Reagent (Contains Ferrozine, Sodium Acetate and Acetic Acid) Helium Purged

(Contd. of page 8)

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 Sensitization - Skin 1: Skin sensitisation – Category 1 • \* Data compared to the previous version altered.