

# SAFETY DATA SHEET

**Issue Date** 11-Apr-2024 **Revision Date** 06-Nov-2024 **Version** 7.1 **Page** 1 / 16

### 1. IDENTIFICATION

**Product identifier** 

Product Name FerroZine® Iron Reagent

Other means of identification

Product Code(s) 230149

Safety data sheet number M00186

UN/ID no UN2922

Recommended use of the chemical and restrictions on use

**Recommended Use** Water Analysis. Indicator for iron.

Uses advised against Consumer use.

**Restrictions on use** For Laboratory Use Only.

### Details of the supplier of the safety data sheet

#### **Manufacturer Address**

Hach Company, P.O.Box 389, Loveland, CO 80539, USA, +1(970) 669-3050

#### Emergency telephone number

+1(303) 623-5716 - 24 Hour Service

## 2. HAZARDS IDENTIFICATION

### Classification

### **Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 3
Acute toxicity - Inhalation (Vapors)	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1
Chronic aquatic toxicity	Category 3

## Hazards not otherwise classified (HNOC)

Not applicable

### Label elements

#### Signal word

Danger

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#### **Hazard statements**

H301 - Toxic if swallowed

H314 - Causes severe skin burns and eye damage

H317 - May cause an allergic skin reaction

H332 - Harmful if inhaled

H412 - Harmful to aquatic life with long lasting effects

#### **Precautionary statements**

P271 - Use only outdoors or in a well-ventilated area

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P280 - Wear protective gloves, protective clothing, eye protection, and face protection

P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor/physician

P363 - Wash contaminated clothing before reuse

P405 - Store locked up

P501 - Dispose of contents/ container to an approved waste disposal plant

P272 - Contaminated work clothing should not be allowed out of the workplace

P273 - Avoid release to the environment

P270 - Do not eat, drink or smoke when using this product

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

### Other Hazards Known

May be harmful in contact with skin Harmful to aquatic life

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Substance

Not applicable

### **Mixture**

Chemical Family

Mixture.

Chemical nature Mixture of organic compounds.

### Percent ranges are used where confidential product information is applicable.

Chemical name	CAS No.	Percent Range	HMRIC #
Acetic acid, mercapto-, monoammonium salt	5421-46-5	40 - 50%	-
Thioglycolic acid	68-11-1	20 - 30%	-
Benzenesulfonic acid, 4,4-[3-(2-pyridinyl)-1,2,4-triazine-5,6-diyl]bis-,	69898-45-9	<1%	-
monosodium salt			

### 4. FIRST AID MEASURES

### **Description of first aid measures**

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General advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required.

**Inhalation** Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical

attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get immediate medical

advice/attention.

**Eye contact**Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep

eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present

and easy to do. Continue rinsing. Get immediate medical advice/attention.

**Skin contact** Wash off immediately with soap and plenty of water while removing all contaminated clothes

and shoes. Get immediate medical advice/attention. May cause an allergic skin reaction.

**Ingestion** Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water.

Never give anything by mouth to an unconscious person. Get immediate medical

advice/attention.

**Self-protection of the first aider** Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.

Avoid breathing vapors or mists.

Most important symptoms and effects, both acute and delayed

Symptoms Burning sensation. Itching. Rashes. Hives. Coughing and/ or wheezing. Difficulty in

breathing.

Indication of any immediate medical attention and special treatment needed

**Note to physicians** Product is a corrosive material. Use of gastric lavage or emesis is contraindicated.

Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. May cause

sensitization in susceptible persons. Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

surrounding environment.

**Unsuitable Extinguishing Media** Caution: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the

chemical

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors. Product is or contains a sensitizer. May

cause sensitization by skin contact.

Hazardous combustion products Carbon monoxide, Carbon dioxide. Nitrogen oxides. Sulfur oxides. Ammonia.

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

### 6. ACCIDENTAL RELEASE MEASURES

**U.S. Notice**Only persons properly qualified to respond to an emergency involving hazardous

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substances may respond to a spill according to federal regulations (OSHA 29 CFR

1910.120(a)(v)) and per your company's emergency response plan and

guidelines/procedures. See Section 13, Special Instructions for disposal assistance. Outside of the US, only persons properly qualified according to state or local regulations should

respond to a spill involving chemicals.

### Personal precautions, protective equipment and emergency procedures

Personal precautions Attention! Corrosive material. Avoid contact with skin, eyes or clothing. Ensure adequate

> ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid breathing vapors or mists.

Other Information Refer to protective measures listed in Sections 7 and 8.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Should not be released into the **Environmental precautions** 

environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains.

#### Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder,

sawdust). Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

Reference to other sections See section 8 for more information. See section 13 for more information.

### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before

reuse. Avoid breathing vapors or mists.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach

of children. Protect from moisture. Store locked up. Store away from other materials.

Flammability class Not applicable

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### **Exposure Guidelines**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Acetic acid, mercapto-,	TWA: 1 ppm	NDF	NDF
monoammonium salt	Sk*		
CAS#: 5421-46-5	dermal sensitizer		
Thioglycolic acid	TWA: 1 ppm	(vacated) TWA: 1 ppm	TWA: 1 ppm

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CAS#: 68-11-1	Sk*	(vacated) TWA: 4 mg/m <sup>3</sup>	TWA: 4 mg/m <sup>3</sup>
	dermal sensitizer	(vacated) SKN*	-

Appropriate engineering controls

**Engineering Controls** 

Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required. Wear

breathing apparatus if exposed to vapors/dusts/aerosols.

**Hand Protection** Wear suitable gloves. Impervious gloves. Barrier creams may help to protect the exposed

areas of skin. Gloves must be inspected prior to use. The selected protective gloves have to satisfy the specifications of EU Directive 2016/425 and the standard EN 374 derived from it. Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN

374-1:2016.

**Eye/face protection** Face protection shield.

**Skin and body protection** Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.

General Hygiene Considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do

not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

**Environmental exposure controls** 

Local authorities should be advised if significant spillages cannot be contained. Do not allow

into any sewer, on the ground or into any body of water.

Thermal hazards None under normal processing.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state

Liquid

Appearance

Odor

aqueous solution Strong, skunk-like Color yellow

Odor threshold No data available

Property Values Remarks • Method

Molecular weight Not applicable

pH 3.5 @ 20 °C

Melting point / freezing point  $\sim$  -9 °C / 15.8 °F

Initial boiling point and boiling range  $\sim$  102 °C / 215.6 °F

**Evaporation rate**No data available

**Vapor pressure** 2.325 mm Hg  $\,/\,$  0.31 kPa  $\,$  at  $\,$  20  $\,$  °C  $\,/\,$  68  $\,$  °F

Relative vapor density 0.62

Specific gravity - VALUE 1 1.310

Partition coefficient No data available

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**Soil Organic Carbon-Water Partition** 

Coefficient

No data available

Autoignition temperature No data available

**Decomposition temperature**No data available

Dynamic viscosity

No data available

Kinematic viscosity

No data available

Solubility(ies)

### Water solubility

Water solubility classification	Water solubility	Water Solubility Temperature_
Soluble	> 1000 mg/L	25 °C / 77 °F

### Solubility in other solvents

	Chemical Name_	Solubility classification	<u>Solubility</u>	Solubility Temperature_
ı	Acid	Soluble	> 1000 mg/L	25 °C / 77 °F

### Other information

### Corrosive to metals

Steel Corrosion Rate Aluminum Corrosion Rate  $0.56 \ \text{mm/yr} \ / \ 0.02 \ \text{in/yr} \ 0.1 \ \text{mm/yr} \ / \ 0 \ \text{in/yr}$ 

### **Volatile Organic Compounds (VOC) Content**

See ingredients information below

Chemical name	CAS No.	Volatile organic compounds (VOC) content	CAA (Clean Air Act)
Acetic acid, mercapto-, monoammonium salt	5421-46-5	Not applicable	-
Thioglycolic acid	68-11-1	No data available	-
Benzenesulfonic acid, 4,4-[3-(2-pyridinyl)-1,2,4-triazine-5,6-di yl]bis-, monosodium salt	69898-45-9	Not applicable	-

### **Explosive properties**

Upper explosion limitNo data availableLower explosion limitNo data available

Flammable properties

Flash point No data available

Flammability Limit in Air

Upper flammability limit:No data availableLower flammability limit:No data available

Oxidizing properties No data available.

Bulk density Not applicable

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## 10. STABILITY AND REACTIVITY

#### Reactivity

Not applicable.

### Chemical stability

Stable under normal conditions.

#### **Explosion data**

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

### Possibility of hazardous reactions

None under normal processing.

### **Hazardous polymerization**

Hazardous polymerization does not occur.

#### Conditions to avoid

Exposure to air or moisture over prolonged periods. Excessive heat.

### Incompatible materials

Acids. Bases. Oxidizing agent.

#### Hazardous decomposition products

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

## 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

#### **Product Information**

Inhalation Corrosive by inhalation. Inhalation of corrosive fumes/gases may cause coughing, choking,

headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs.

Pulmonary edema can be fatal. Harmful by inhalation.

Eye contact Causes burns. Corrosive to the eyes and may cause severe damage including blindness.

Causes serious eye damage. May cause irreversible damage to eyes.

**Skin contact** May cause sensitization by skin contact. Repeated or prolonged skin contact may cause

allergic reactions with susceptible persons. Corrosive. Causes severe burns. Avoid contact

with skin and clothing.

**Ingestion** Causes burns. Ingestion causes burns of the upper digestive and respiratory tracts. May

cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung

damage if swallowed. May be fatal if swallowed and enters airways.

**Symptoms** Redness. Burning. May cause blindness. Coughing and/ or wheezing. Itching. Rashes.

Hives.

**Acute toxicity** 

Toxic if swallowed Harmful if inhaled

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### **Mixture**

Test data reported below.

### **Oral Exposure Route**

Endpoint type	Reported dose	Exposure time	Toxicological effects
Rat	190 mg/kg	Single generation	Abnormalities of the lungs
			Abnormalities of the liver
			Abnormalities of the kidneys
			Abnormalities of the spleen
			Abnormalities of the gastrointestinal tract

### **Ingredient Acute Toxicity Data**

Test data reported below.

### **Oral Exposure Route**

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Acetic acid,	Rat	200 mg/kg	None reported	None reported	ECHA
mercapto-,	LD50				
monoammonium salt					
(40 - 50%)					
CAS#: 5421-46-5					
Thioglycolic acid	Rat	73 mg/kg	None reported	None reported	RTECS
(20 - 30%)	LD50				
CAS#: 68-11-1					

### **Dermal Exposure Route**

Chemical	name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Thioglycol (20 - 30 CAS#: 68	)%)	Rat LD <sub>50</sub>	848 mg/kg	None reported	None reported	RTECS

### Inhalation (Dust/Mist) Exposure Route

### Inhalation (Vapor) Exposure Route

### **Unknown Acute Toxicity**

0% of the mixture consists of ingredient(s) of unknown toxicity.

## **Acute Toxicity Estimations (ATE)**

## The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	No information available
ATEmix (dermal)	2,868.70 mg/kg
ATEmix (inhalation-dust/mist)	1.69 mg/l
ATEmix (inhalation-vapor)	10.10 mg/l
ATEmix (inhalation-gas)	No information available

### Skin corrosion/irritation

Causes severe burns.

#### **Mixture**

No data available.

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### Ingredient Skin Corrosion/Irritation Data

Test data reported below.

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Acetic acid, mercapto-, monoammonium salt (40 - 50%) CAS#: 5421-46-5	Existing human experience	Human	None reported	None reported	Skin irritant	HSDB
Thioglycolic acid (20 - 30%) CAS#: 68-11-1	EpiDerm Skin Model (Directive 2000/33/EC, B.27)	synthetic bio-barrier membrane	990 mg	3 minutes	Corrosive to skin	ECHA
Benzenesulfonic acid, 4,4-[3-(2-pyridinyl)-1, 2,4-triazine-5,6-diyl]bi s-, monosodium salt (<1%) CAS#: 69898-45-9	Structure Activity	None reported	None reported	None reported	Not corrosive or irritating to skin	Toxtree (Ideaconsult, Ltd)

### Serious eye damage/irritation

Classification based on data available for ingredients. Causes burns. Risk of serious damage to eyes.

### Mixture

No data available.

## Ingredient Eye Damage/Eye Irritation Data

Test data reported below.

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Benzenesulfonic acid, 4,4-[3-(2-pyridinyl)-1, 2,4-triazine-5,6-diyl]bi s-, monosodium salt (<1%) CAS#: 69898-45-9	Structure Activity Relationship	None reported	None reported	None reported	Not corrosive or irritating to eyes	Toxtree (Ideaconsult, Ltd)

## Respiratory or skin sensitization

May cause sensitization by skin contact.

#### **Mixture**

No data available.

## **Ingredient Sensitization Data**

Test data reported below.

### **Respiratory Sensitization Exposure Route**

Chemical name	Test method	Species	Results	Key literature references and
				sources for data
Acetic acid, mercapto-, monoammonium salt (40 - 50%) CAS#: 5421-46-5	Based on human experience	None reported	Confirmed to be a respiratory sensitizer	HSDB

## STOT - single exposure

Based on available data, the classification criteria are not met.

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#### **Mixture**

No data available.

Ingredient Specific Target Organ Toxicity Single Exposure Data

No data available.

STOT - repeated exposure

Based on available data, the classification criteria are not met.

Mixture

No data available.

Ingredient Specific Target Organ Toxicity Repeat Exposure Data

No data available.

Carcinogenicity

Based on available data, the classification criteria are not met.

**Mixture** 

No data available.

**Ingredient Carcinogenicity Data** 

No data available.

Chemical name	CAS No.	ACGIH	IARC	NTP	OSHA
Acetic acid, mercapto-,	5421-46-5	-	-	-	-
monoammonium salt					
Thioglycolic acid	68-11-1	-	-	-	-
Benzenesulfonic acid,	69898-45-9	-	-	-	-
4,4-[3-(2-pyridinyl)-1,2,4-tri					
azine-5,6-diyl]bis-,					
monosodium salt					

### Legend

ACGIH (American Conference of Governmental Industrial Hygienists)	Does not apply
NTP (National Toxicology Program)	Does not apply
OSHA	Does not apply

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Benzenesulfonic acid,	QSAR	None reported	None reported	Not Carcinogenic	Toxtree (Ideaconsult, Ltd)
4,4-[3-(2-pyridinyl)-1,	(Quantitative				
2,4-triazine-5,6-diyl]bi	Structure				
s-, monosodium salt	Activity				
(<1%)	Relationship				
CAS#: 69898-45-9	Models)				

## Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Mixture invitro Data

No data available.

Substance invitro Data

Test data reported below.

Chemical name	Test	Cell Strain	Reported dose	Exposure time	Results	Key literature references and sources for data
Thioglycolic acid	Mutation in	Salmonella	None reported	None reported	Negative	IUCLID

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(20 - 30%) CAS#: 68-11-1	microorganisms	typhimurium		
O/\0#. 00-11-1				

Mixture invivo Data

No data available.

Substance invivo Data

No data available.

Reproductive toxicity

Based on available data, the classification criteria are not met.

Mixture

No data available.

**Ingredient Reproductive Toxicity Data** 

No data available.

**Aspiration hazard** 

Based on available data, the classification criteria are not met.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

Unknown aquatic toxicity 0% of the mixture consists of components(s) of unknown hazards to the aquatic

environment.

**Mixture** 

**Aquatic Acute Toxicity** 

No data available.

**Aquatic Chronic Toxicity** 

No data available.

**Substance** 

**Aquatic Acute Toxicity** 

Test data reported below.

#### Fish

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Acetic acid, mercapto-, monoammonium salt (40 - 50%) CAS#: 5421-46-5	96 hours	None reported	LC50	8596 mg/L	ECOSARS
Thioglycolic acid (20 - 30%) CAS#: 68-11-1	96 hours	Pimephales promelas	LC50	30 mg/L	IUCLID
Benzenesulfonic acid, 4,4-[3-(2-pyridinyl)-1, 2,4-triazine-5,6-diyl]bi s-, monosodium salt (<1%) CAS#: 69898-45-9	96 hours	None reported	LC50	22900 mg/L	ECOSARS

#### Crustacea

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Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Acetic acid, mercapto-, monoammonium salt (40 - 50%) CAS#: 5421-46-5	48 Hours	None reported	EC <sub>50</sub>	41 mg/L	ECOSARS
Benzenesulfonic acid, 4,4-[3-(2-pyridinyl)-1, 2,4-triazine-5,6-diyl]bi s-, monosodium salt (<1%) CAS#: 69898-45-9	48 Hours	None reported	EC50	97900 mg/L	ECOSARS

## Algae

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Acetic acid, mercapto-, monoammonium salt (40 - 50%) CAS#: 5421-46-5	96 hours	None reported	EC <sub>50</sub>	19 mg/L	ECOSARS
Benzenesulfonic acid, 4,4-[3-(2-pyridinyl)-1, 2,4-triazine-5,6-diyl]bi s-, monosodium salt (<1%) CAS#: 69898-45-9	96 hours	None reported	EC50	22400 mg/L	ECOSARS

### **Aquatic Chronic Toxicity**

No data available.

## Persistence and degradability

Mixture

No data available.

Mixture

No data available.

Partition coefficient No data available

**Mobility** 

Soil Organic Carbon-Water Partition Coefficient No data available

Other adverse effects No information available

Chemical name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Endocrine disrupting potential
	Candidate List	Lvaluateu Substances	potential
Benzenesulfonic acid,	Group III Chemical	-	-
4,4-[3-(2-pyridinyl)-1,2,4-triazine-5,6-di			
yl]bis-, monosodium salt			
(<1%)			
CAS#: 69898-45-9			

## 13. DISPOSAL CONSIDERATIONS

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Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Contaminated packaging Do not reuse empty containers.

**US EPA Waste Number** D002

## 14. TRANSPORT INFORMATION

DOT

UN/ID no UN2922

Proper shipping name CORROSIVE LIQUIDS, TOXIC, N.O.S.

**DOT Technical Name** Acetic acid, mercapto-, monoammonium salt, Thioglycolic acid

Transport hazard class(es) **Subsidiary class** 6.1 **Packing Group** Ш **Emergency Response Guide** 154

Number

TDG

UN/ID no

Proper shipping name CORROSIVE LIQUID, TOXIC, N.O.S.

**TDG Technical Name** Acetic acid, mercapto-, monoammonium salt, Thioglycolic acid

Transport hazard class(es) **Subsidiary class** 6.1 **Packing Group** Ш

IATA

**UN** number or ID number UN2922

Proper shipping name Corrosive liquid, toxic, n.o.s.

**IATA Technical Name** Acetic acid, mercapto-, monoammonium salt, Thioglycolic acid

Transport hazard class(es) **Subsidiary hazard class** 6.1 Packing group Ш **ERG Code** 8P

**Special Provisions** A3, A803

**IMDG** 

**UN** number or ID number UN2922

Proper shipping name CORROSIVE LIQUID, TOXIC, N.O.S.

**IMDG Technical Name** Acetic acid, mercapto-, monoammonium salt, Thioglycolic acid

Transport hazard class(es) 8 Subsidiary hazard class 6.1 **Packing Group** Ш EmS-No F-A, S-B **Special Provisions** 274

Note: No special precautions necessary.

#### **Additional information**

There is a possibility that this product could be contained in a reagent set or kit composed of various compatible dangerous goods. If the item is not in a reagent set or kit, the classification given above applies.

If the item is part of a reagent set or kit the classification would change to the following:

UN3316 Chemical Kit, Hazard Class 9, Packing Group II or III.

If the item is not regulated, the Chemical Kit classification does not apply.

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## 15. REGULATORY INFORMATION

#### **National Inventories**

For Inventory status, "complies" means, listed on the inventory, exempted or otherwise complies.

TSCA Complies DSL/NDSL Complies

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

#### **International Inventories**

**EINECS/ELINCS** Complies **ENCS** Does not comply **IECSC** Complies Complies **KECI** Does not comply **PICCS** Complies **TCSI AICS** Complies Complies **NZIoC** 

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

**TCSI** - Taiwan Chemical Substances Inventory **AICS** - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

### **US Federal Regulations**

### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

### SARA 311/312 Hazard Categories

Acute health hazard Yes
Chronic Health Hazard Yes
Fire hazard No
Sudden release of pressure hazard No
Reactive Hazard No

### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

## **US State Regulations**

### **California Proposition 65**

This product does not contain any Proposition 65 chemicals

IMERC: Not applicable

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### U.S. State Right-to-Know Regulations

This product may contain substances regulated by state right-to-know regulations.

Chemical name	New Jersey	Massachusetts	Pennsylvania
Thioglycolic acid	X	X	X
68-11-1			

#### **U.S. EPA Label Information**

### 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

### **Special Comments**

None

#### **Additional information**

#### Global Automotive Declarable Substance List (GADSL)

Not applicable

### NFPA and HMIS Classifications

NFPA	Health hazards - 3	Flammability - 0	Instability - 0	Physical and chemical properties -
HMIS	Health hazards - 3	Flammability - 0	Physical hazards - 0	Personal protection -
				- I

#### Key or legend to abbreviations and acronyms used in the safety data sheet

ACGIH (American Conference of Governmental Industrial Hygienists)
ATSDR (Agency for Toxic Substances and Disease Registry)
CCRIS (Chemical Carcinogenesis Research Information System)

CDC (Center for Disease Control)

CEPA (Canadian Environmental Protection Agency)

CICAD CICAD (Concise International Chemical Assessment Documents)

ECHA ECHA (The European Chemicals Agency)
EEA EEA (European Environment Agency)
EPA EPA (Environmental Protection Agency)

ERMA (New Zealands Environmental Risk Management Authority)

ECOSARS Estimation through ECOSARS v1.11 part of the Estimation Programs Interface (EPI) Suite™

FDA FDA (Food & Drug Administration)

GESTIS GESTIS (Information System on Hazardous Substances of the German Social Accident

Insurance)

HSDB (Hazardous Substances Data Bank)

INERISINERIS (The National Industrial Environment and Risks Institute)IPCS INCHEMIPCS INCHEM (International Programme on Chemical Safety)IUCLIDIUCLID (The International Uniform Chemical Information Database)NITEJapan National Institute of Technology and Evaluation (NITE)

NIH NIH (National Institutes of Health)

NIOSH NIOSH (National Institute for Occupational Safety and Health)
LOLI LOLI (List of Lists - An International Chemical Regulatory Database)

NDF no data

NICNAS Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH IDLH Immediately Dangerous to Life or Health

OSHA Occupational Safety and Health Administration of the US Department of Labor

PEEN (Pan European Ecological Network)

RTECS RTECS (Registry of Toxic Effects of Chemical Substances)
SIDS SIDS (Screening Information Dataset) for High Volume Chemicals

SYKE The Finnish Environment Institute (SYKE)
USDA USDA (United States Department of Agriculture)

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USDC (United States Department of Commerce)

WHO (World Health Organization)

### Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

MAC Maximum Allowable Concentration Ceiling Ceiling Limit Value

X Listed Vacated These values have no official status. The only

binding levels of contaminants are those listed in the final OSHA PEL. These lists are for reference purposes only. Please note that some reference state regulations of these "liberated" exposure limits in their state

regulations.

SKN\* Skin designation SKN+ Skin sensitization
RSP+ Respiratory sensitization \*\* Hazard Designation
C Carcinogen R Reproductive toxicant

M mutagen

Prepared By Hach Product Compliance Department

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Revision Date 06-Nov-2024

Revision Note SDS sections updated

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### **Disclaimer**

USER RESPONSIBILITY: Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED TO BE ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.

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**End of Safety Data Sheet** 

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