According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 02.02.2018

Stannous Chloride, Diyhydrate

SECTION 1: Identification

Product identifier

Product name: Stannous Chloride, Diyhydrate Product code: S25578A

Recommended use of the product and restriction on use

Relevant identified uses: Not determined or not applicable. Uses advised against: Not determined or not applicable. Reasons why uses advised against: Not determined or not applicable.

Manufacturer or supplier details

Manufacturer: Supplier:

| AquaPhoenix Scientific | Fisher Science Education |
|------------------------|--------------------------|
| 860 Gitts Run Road | 6771 Silver Crest Road |
| Hanover | Nazareth |
| PA 17331 | PA 18064 |
| (717) 632-1291 | 800 955-1177 |

Emergency telephone number: United States

Emergency Telephone No.: 800-255-3924

SECTION 2: Hazard(s) identification

GHS classification:

Acute toxicity (oral), category 4 Skin corrosion, category 1B Skin sensitization, category 1 Serious eye damage, category 1

Label elements

Hazard pictograms:



Signal word: Danger

Hazard statements:

H302 Harmful if swallowed

H314 Causes severe skin burns and eye damage

H317 May cause an allergic skin reaction

H318 Causes serious eye damage

Precautionary statements:

P264 Wash skin thoroughly after handling

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

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

P280 Wear protective gloves/protective clothing/eye protection/face protection

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

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P321 Specific treatment (see supplemental first aid instructions on this label).

P363 Wash contaminated clothing before reuse

P304+P340+P310 If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician

P301+P330+P331+P310 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

P303+P361+P353+P310 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.

P305+P351+P338+P310 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 or doctor/physician. P302+P352 If on skin: Wash with soap and water

P333+P313 If skin irritation or a rash occurs: Get medical advice/attention

P405 Store locked up

P501 Dispose of contents and container as instructed in Section 13

Hazards not otherwise classified: None

SECTION 3: Composition/information on ingredients

| Identification | Name | Weight % |
|---------------------------|-------------------------------|----------|
| CAS number: 10025-69-1 | Stannous Chloride, Diyhydrate | 100 |

Additional Information: None

SECTION 4: First aid measures

Description of first aid measures

General notes:

Not determined or not applicable.

After inhalation:

Loosen clothing as necessary and position individual in a comfortable position Maintain an unobstructed airway Move exposed individual to fresh air Immediately call a POISON CONTROL CENTER or seek medical attention

After skin contact:

Rinse affected area with soap and water If symptoms develop or persist, seek medical attention Immediately remove all contaminated clothing Wash affected area with soap and water Immediately call a POISON CONTROL CENTER or seek medical attention

After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes If symptoms develop or persist, seek medical attention Remove contact lens(es) if able to do so during rinsing Immediately call a POISON CONTROL CENTER or seek medical attention

After swallowing:

Rinse mouth thoroughly Seek medical attention if irritation, discomfort, or vomiting persists Call a POISON CONTROL CENTER or seek medical attention if you feel unwell Do not induce vomiting Rinse mouth and then drink plenty of water

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Immediately call a POISON CONTROL CENTER or seek medical attention

Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

Not determined or not applicable.

Delayed symptoms and effects:

Not determined or not applicable.

Immediate medical attention and special treatment

Specific treatment:

Not determined or not applicable.

Notes for the doctor:

Not determined or not applicable.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media:

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition

Unsuitable extinguishing media:

Not determined or not applicable.

Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors

Special protective equipment for firefighters:

Wear protective eye wear, gloves and clothing Refer to Section 8

Special precautions:

Avoid inhaling gases, fumes, dust, mist, vapor and aerosols Avoid contact with skin, eyes and clothing

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation Ensure air handling systems are operational Wear protective eye wear, gloves and clothing

Environmental precautions:

Should not be released into the environment

Prevent from reaching drains, sewer or waterway

Methods and material for containment and cleaning up:

Wear protective eye wear, gloves and clothing

Reference to other sections:

Not determined or not applicable.

SECTION 7: Handling and storage

Precautions for safe handling:

Do not eat, drink, smoke or use personal products when handling chemical substances. Avoid breathing mist or vapor.

Conditions for safe storage, including any incompatibilities:

Store in a cool, well-ventilated area.

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SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

Occupational Exposure limit values:

No occupational exposure limits noted for the ingredient(s).

Biological limit values:

No biological exposure limits noted for the ingredient(s).

Information on monitoring procedures:

Not determined or not applicable.

Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Personal protection equipment

Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

Skin and body protection:

Select glove material impermeable and resistant to the substance.

Respiratory protection:

When necessary, use NIOSH-approved breathing equipment.

General hygienic measures:

Wash hands before breaks and at the end of work. Avoid contact with skin, eyes and clothing.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

| Appearance | Solid |
|---|--|
| Odor | Not determined or not available. |
| Odor threshold | Not determined or not available. |
| рН | Not determined or not available. |
| Melting point/freezing point | 38°C (100°F) |
| Initial boiling point/range | Decomposes |
| Flash point (closed cup) | Not determined or not available. |
| Evaporation rate | Not determined or not available. |
| Flammability (solid, gas) | Not determined or not available. |
| Upper flammability/explosive limit | Not determined or not available. |
| Lower flammability/explosive limit | Not determined or not available. |
| Vapor pressure | Not determined or not available. |
| Vapor density | Not determined or not available. |
| Density | Not determined or not available. |
| Relative density | 2.7 g/cm ³ |
| Solubilities | Not applicable. ; Decomposes in water. |
| Partition coefficient (n-octanol/water) | Not determined or not available. |
| Auto/Self-ignition temperature | Not determined or not available. |
| Decomposition temperature | Decomposes in water |
| Dynamic viscosity | Not determined or not available. |
| | |

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| Kinematic viscosity | Not determined or not available. |
|----------------------|----------------------------------|
| Explosive properties | Not determined or not available. |
| Oxidizing properties | Not determined or not available. |

Other information

SECTION 10: Stability and reactivity

Reactivity:

Does not react under normal conditions of use and storage.

Chemical stability:

Material is moisture sensitive.

Possibility of hazardous reactions:

None under normal conditions of use and storage.

Conditions to avoid:

Store away from oxidizing agents, strong acids or bases. High temperatures, incompatible materials, moisture, exposure to air.

Incompatible materials:

Moisture. Hydrogen peroxide, Strong bases, Strong oxidizing agents, Bromine trifluoride, Hydrazine, Ethylene oxide, Metals, organic nitrates.

Hazardous decomposition products:

Carbon oxides (CO, CO2). Hydrogen chloride, chlorine, oxides of tin, irritating and toxic fumes.

SECTION 11: Toxicological information

Acute toxicity

Assessment: Harmful if swallowed

Product data: No data available.

Substance data: No data available.

Skin corrosion/irritation

Assessment: Causes severe skin burns and eye damage

Product data: No data available.

Substance data:

| Name | Result |
|-------------------------------|--|
| Stannous Chloride, Diyhydrate | Causes severe skin burns and eye damage. |

Serious eye damage/irritation

Assessment: Causes serious eye damage

Product data: No data available.

Substance data: No data available.

Respiratory or skin sensitization

Assessment: May cause an allergic skin reaction

Product data: No data available.

Substance data: No data available.

Carcinogenicity

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

Product data: No data available.

Substance data: No data available.

International Agency for Research on Cancer (IARC): None of the ingredients are listed.

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| National Toxicology Program (NTP): None of the ingredients are listed. |
|---|
| Germ cell mutagenicity |
| Assessment: Based on available data, the classification criteria are not met. |
| Product data: No data available. |
| Substance data: No data available. |
| Reproductive toxicity |
| Assessment: Based on available data, the classification criteria are not met. |
| Product data: No data available. |
| Substance data: No data available. |
| Specific target organ toxicity (single exposure) |
| Assessment: Based on available data, the classification criteria are not met. |
| Product data: No data available. |
| Substance data: No data available. |
| Specific target organ toxicity (repeated exposure) |
| Assessment: Based on available data, the classification criteria are not met. |
| Product data: No data available. |

Substance data: No data available.

Aspiration toxicity

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

Product data: No data available.

Substance data: No data available.

Information on likely routes of exposure: No data available.

Symptoms related to the physical, chemical and toxicological characteristics: No data available. Other information: No data available.

SECTION 12: Ecological information

Acute (short-term) toxicity

Assessment: Based on available data, the classification criteria are not met. Product data: No data available. Substance data: No data available.

Chronic (long-term) toxicity

Product data: No data available.

Substance data: No data available.

Persistence and degradability

Product data: No data available.

Substance data: No data available.

Bioaccumulative potential

Product data: No data available. Substance data: No data available.

Mobility in soil

Product data: No data available.

Substance data: No data available.

Other adverse effects: No data available.

SECTION 13: Disposal considerations

Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to

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applicable regulatory entities (US 40CFR262.11)

SECTION 14: Transport information

United States Transportation of dangerous goods (49 CFR DOT)

| UN number | UN3260 |
|-------------------------------|--|
| UN proper shipping name | Corrosive solid, acidic, inorganic, n.o.s. (Stannous chloride dihydrate) |
| UN transport hazard class(es) | 8 (9) |
| Packing group | III |
| Environmental hazards | None |
| Special precautions for user | None |

International Maritime Dangerous Goods (IMDG)

| UN number | UN3260 Corrosive solid, acidic, inorganic, n.o.s. (Stannous chloride dihydrate) | |
|-------------------------------|---|--|
| UN proper shipping name | | |
| UN transport hazard class(es) | 8 (9) | |
| Packing group | III | |
| Environmental hazards | None | |
| Special precautions for user | None | |

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

| UN number | UN3260 |
|-------------------------------|--|
| UN proper shipping name | Corrosive solid, acidic, inorganic, n.o.s. (Stannous chloride dihydrate) |
| UN transport hazard class(es) | 8 (9) |
| Packing group | |
| Environmental hazards | None |
| Special precautions for user | None |

SECTION 15: Regulatory information

United States regulations

Inventory listing (TSCA):

| | 10025-69-1 | | Not Listed |
|-----|----------------------|---|---------------|
| Sig | nificant New Use R | ule (TSCA Section 5): Not determined. | |
| Ex | port notification un | der TSCA Section 12(b): Not determined. | |

SARA Section 311/312 hazards:

| Acute Chronic | Fire | Pressure | Reactive | |
|---------------|------|----------|----------|--|
|---------------|------|----------|----------|--|

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| No | No | No | No | No |
|-------------------------|------------------|-------------------------------|-------------------|--------|
| ARA Section 30 | 2 extremely haz | ardous substances | : Not determined. | |
| SARA Section 31 | 3 toxic chemical | S: | | |
| 10025-69-1 | Stannous C | Stannous Chloride, Diyhydrate | | |
| CERCLA: Not dete | rmined. | | | |
| RCRA: Not determ | ined. | | | |
| Section 112(r) of | the Clean Air A | ct (CAA): Not deterr | nined. | |
| Ma <u>ssachusetts</u> R | ight to Know: | | | |
| 10025-69-1 | Stannous C | hloride, Diyhydrate | | Listed |
| New Jersey Right | t to Know: | | | |
| 10025-69-1 | Stannous C | hloride, Diyhydrate | | Listed |
| New York Right | o Know: | | | ł |
| 10025-69-1 | Stannous C | hloride, Diyhydrate | | Listed |
| Pennsylvania Rig | ht to Know: | | | |
| | Stannous C | hloride, Diyhydrate | | Not |

SECTION 16: Other information

Abbreviations and Acronyms: None

Disclaimer:

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

NFPA: 3-0-0

HMIS: 3-0-0-X

Initial preparation date: 02.02.2018

End of Safety Data Sheet