According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 02.01.2018

Diethyldithiocarbamic acid, sodium salt trihydrate

### **SECTION 1: Identification**

### **Product identifier**

**Product name:** Diethyldithiocarbamic acid, sodium salt trihydrate **Product code:** SD2000

# Recommended use of the product and restriction on use

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

### Manufacturer or supplier details

Manufacturer: United States AquaPhoenix Scientific, Inc. 860 Gitts Run Road Hanover, PA 17331 1-717-632-1291

# Emergency telephone number: United States ChemTel Inc +1(800)255-3924 +1(813)248-0585

# SECTION 2: Hazard(s) identification

# **GHS** classification:

Combustible dust Acute toxicity (oral), category 4 Skin irritation, category 2 Eye irritation, category 2A Specific target organ toxicity - single exposure, category 3, respiratory irritation Acute aquatic hazard, category 1

### Label elements

### **Hazard pictograms:**



### Signal word: Warning

### Hazard statements:

H900 May form combustible dust concentrations in air

H315 Causes skin irritation

- H319 Causes serious eye irritation
- H302 Harmful if swallowed
- H335 May cause respiratory irritation
- H400 Very toxic to aquatic life

### **Precautionary statements:**

P264 Wash skin thoroughly after handling

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P280 Wear protective gloves/protective clothing/eye protection/face protection P270 Do not eat, drink or smoke when using this product P261 Avoid breathing dust/fume/gas/mist/vapors/spray P271 Use only outdoors or in a well-ventilated area P273 Avoid release to the environment P321 Specific treatment (see supplemental first aid instructions on this label). P362 Take off contaminated clothing and wash before reuse P302+P352 If on skin: Wash with soap and water P332+P313 If skin irritation occurs: Get medical advice/attention P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing P301+P330+P312 IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell. P304+P340+P312 If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell P391 Collect spillage P405 Store locked up P403+P233 Store in a well ventilated place. Keep container tightly closed 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: 148-18-5	Sodium diethyldithiocarbamate	<5
CAS number: 20624-25-3	Diethylcarbamodithioic Acid Sodium Salt Trihydrate	>95

# 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 Get medical advice/attention if you feel unwell Move exposed individual to fresh air Call a POISON CONTROL CENTER or seek medical attention if you feel unwell

# After skin contact:

Rinse affected area with soap and water If symptoms develop or persist, seek medical attention Wash affected area with soap and water Seek medical attention if symptoms develop or persist

# After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes If symptoms develop or persist, seek medical attention

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Remove contact lens(es) if able to do so during rinsing Seek medical attention if irritation persists or if concerned

### 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

### 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 High concentrations of dust may lead to combustible mixtures with air

### Special protective equipment for firefighters:

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

### Special precautions:

Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard Carbon monoxide and carbon dioxide may form upon combustion

Heating causes a rise in pressure, risk of bursting and combustion

#### **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
- Wear dust mask or respirator

Dust Deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration

#### **Environmental precautions:**

Should not be released into the environment Prevent from reaching drains, sewer or waterway

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## Methods and material for containment and cleaning up:

Wear protective eye wear, gloves and clothing Wear dust mask or respirator Prevent generation of combustible dust in air mixtures Sweep or scoop up solid material while minimizing dust generation Dispose of contents / container in accordance with local regulations

### **Reference to other sections:**

Not determined or not applicable.

## **SECTION 7: Handling and storage**

### Precautions for safe handling:

Use only with adequate ventilation.

Avoid breathing dust.

Do not eat, drink, smoke or use personal products when handling chemical substances.

Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.

Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations.

Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Prevent generation of combustible dust in air mixtures.

### Conditions for safe storage, including any incompatibilities:

Keep container tightly sealed. Keep container dry. Store in a cool, well-ventilated area.

# 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:

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. Biological monitoring may also be appropriate for some substances.

### Appropriate engineering controls:

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

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen- deficient environment.

Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).

# **Personal protection equipment**

# Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

Skin and body protection:

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Select glove material impermeable and resistant to the substance. Wear appropriate clothing to prevent any possibility of skin contact.

#### **Respiratory protection:**

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

#### **General hygienic measures:**

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

# **SECTION 9: Physical and chemical properties**

#### Information on basic physical and chemical properties

Appearance	Off - white solid		
Odor	Odorless		
Odor threshold	Not determined or not available.		
рН	Approx. 7 at 20°C (68°F) 20g/l water		
Melting point/freezing point	95 - 98.5°C (203 - 209.3°F)		
Initial boiling point/range	Not determined or not available.		
Flash point (closed cup)	Not applicable		
Evaporation rate	Not determined or not available.		
Flammability (solid, gas)	Not applicable		
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	Not determined or not available.		
Solubilities	None.		
Partition coefficient (n-octanol/water)	Not determined or not available.		
Auto/Self-ignition temperature	Not determined or not available.		
Decomposition temperature	Not determined or not available.		
Dynamic viscosity	Not determined or not available.		
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:**

Stable under normal conditions. Hygroscopic.

#### Possibility of hazardous reactions:

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None under normal conditions of use and storage.

### **Conditions to avoid:**

Prevent generation of combustible dust in air mixtures. Incompatible materials. Exposure to air or water.

# Incompatible materials:

Oxidizing agents.

### Hazardous decomposition products:

Carbon oxides (CO, CO2). Nitrogen oxides (NOx). Sulfur. Thermal decomposition can lead to the release of other irritating gases and vapors.

### **SECTION 11: Toxicological information**

#### Acute toxicity

Assessment: Harmful if swallowed

Product data: No data available.

# Substance data:

Name	Route	Result
Diethylcarbamodithioic Acid	oral	LD50 - Rat - 1500 mg/kg
Sodium Salt Trihydrate	dermal	LD50 - Rabbit - > 1000 mg/kg
odium diethyldithiocarbamate	oral	LD50 - Rat - 1500 mg/kg
	dermal	LD50 - Rabbit - > 1000 mg/kg

### Skin corrosion/irritation

Assessment: Causes skin irritation

Product data: No data available.

# Substance data:

Name	Result
Diethylcarbamodithioic Acid Sodium Salt Trihydrate	Causes skin irritation.
Sodium diethyldithiocarbamate	Causes skin irritation.

### Serious eye damage/irritation

**Assessment:** Causes serious eye irritation

Product data: No data available.

# Substance data:

Name	Result
Diethylcarbamodithioic Acid Sodium Salt Trihydrate	Causes serious eye irritation.
Sodium diethyldithiocarbamate	Causes serious eye irritation.

### **Respiratory or skin sensitization**

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

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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# Diethyldithiocarbamic acid, sodium salt trihydrate

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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: May cause respiratory irritation
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

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: Very toxic to aquatic life

Product data: No data available.

# Substance data:

Name	Result
	LC50 - Fish - 96 H - 6.9 mg/l
Sodium Salt Trihydrate	LC50 - Crustaceans - 0.91 mg/l
Sodium diethyldithiocarbamate	LC50 - Fish - 96 H - 6.9 mg/l
	LC50 - Crustaceans - 0.91 mg/l

## 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.

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## 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 applicable regulatory entities

### **SECTION 14: Transport information**

### United States Transportation of dangerous goods (49 CFR DOT)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

# International Maritime Dangerous Goods (IMDG)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

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

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

# **SECTION 15: Regulatory information**

### **United States regulations**

# Inventory listing (TSCA):

20624-25-3	Diethylcarbamodithioic Acid Sodium Salt Trihydrate	Listed
148-18-5	Sodium diethyldithiocarbamate	Listed

# Significant New Use Rule (TSCA Section 5): Not determined.

# Export notification under TSCA Section 12(b): Not determined.

# SARA Section 311/312 hazards:

Acute	Chronic	Fire	Pressure	Reactive
No	No	No	No	No

SARA Section 302 extremely hazardous substances: Not determined.

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## SARA Section 313 toxic chemicals:

20624-25-3	Diethylcarbamodithioic Acid Sodium Salt Trihydrate	Not Listed
148-18-5	,	Not Listed

**CERCLA:** Not determined.

**RCRA:** Not determined.

## Section 112(r) of the Clean Air Act (CAA): Not determined.

# Massachusetts Right to Know:

20624-25-3	Diethylcarbamodithioic Acid Sodium Salt Trihydrate	Not Listed
148-18-5	Sodium diethyldithiocarbamate	Not Listed

### New Jersey Right to Know:

20624-25-3	- ,	Not Listed
148-18-5		Not Listed

### New York Right to Know:

20624-25-3	,	Not Listed
148-18-5	···· , · · , · · · · · · · · · · · · ·	Not Listed

### Pennsylvania Right to Know:

20624-25-3	Diethylcarbamodithioic Acid Sodium Salt Trihydrate	Not Listed
148-18-5	Sodium diethyldithiocarbamate	Not Listed

California Proposition 65: None of the ingredients are listed.

# **SECTION 16: Other information**

# Abbreviations and Acronyms: None

### **Disclaimer:**

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

# NFPA: 2-1-1

# HMIS: 2-1-1-X

Initial preparation date: 02.01.2018

# **End of Safety Data Sheet**