

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

# **1.1 Product identifiers**

Product name	<sup>:</sup> Sulfide IC Standard
Product Number Brand	: ICS023 : Sigma-Aldrich
Dianu	

# 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

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

Company	:	Sigma-Aldrich Inc. 3050 SPRUCE ST ST. LOUIS MO 63103 UNITED STATES
Telephone Fax		+1 314 771-5765 +1 800 325-5052

#### **1.4 Emergency telephone**

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

# **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

# GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Short-term (acute) aquatic hazard (Category 2), H401 Long-term (chronic) aquatic hazard (Category 2), H411

For the full text of the H-Statements mentioned in this Section, see Section 16.

## 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word

none

Hazard statement(s) H411	Toxic to aquatic life with long lasting effects.
Precautionary statement(s) P273	Avoid release to the environment.

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P391	Collect spillage.
P501	Dispose of contents/ container to an approved waste disposal
	plant.

# 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

# **SECTION 3: Composition/information on ingredients**

# 3.2 Mixtures

Component		Classification	Concentration
Disodium sulphide	e nonahydrate		
CAS-No. EC-No. Index-No.	1313-84-4 215-211-5 016-009-00-8	Acute Tox. 4; Acute Tox. 3; Skin Corr. 1B; Eye Dam. 1; Aquatic Acute 1; Aquatic Chronic 1; H302, H311, H314, H318, H400, H410 M-Factor - Aquatic Acute: 10 M-Factor - Aquatic Chronic: 10	>= 0.1 - < 1 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

# SECTION 4: First aid measures

#### 4.1 Description of first-aid measures

#### If inhaled

After inhalation: fresh air.

#### In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

#### In case of eye contact

After eye contact: rinse out with plenty of water. Remove contact lenses.

#### If swallowed

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

## 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

**4.3 Indication of any immediate medical attention and special treatment needed** No data available

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# **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media

# Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media** For this substance/mixture no limitations of extinguishing agents are given.

**5.2** Special hazards arising from the substance or mixture Nature of decomposition products not known. Not combustible. Ambient fire may liberate hazardous vapours.

# 5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

## 5.4 Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

# **SECTION 6:** Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Advice for non-emergency personnel: Do not breathe vapors, aerosols. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.
- **6.2 Environmental precautions** Do not let product enter drains.
- 6.3 Methods and materials for containment and cleaning up Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.
- **6.4 Reference to other sections** For disposal see section 13.

## SECTION 7: Handling and storage

**7.1 Precautions for safe handling** For precautions see section 2.2.

# 7.2 Conditions for safe storage, including any incompatibilities

## Storage conditions

Tightly closed.

Store at Room Temperature. Storage class (TRGS 510): 12: Non Combustible Liquids

## 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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# SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

#### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

#### 8.2 Exposure controls

#### Appropriate engineering controls

Change contaminated clothing. Wash hands after working with substance.

## **Personal protective equipment**

#### Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

#### Skin protection

not required

#### **Respiratory protection**

Not required; except in case of aerosol formation.

#### **Control of environmental exposure**

Do not let product enter drains.

## SECTION 9: Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

Form: liquid a) Appearance b) Odor No data available c) Odor Threshold No data available No data available d) pH No data available e) Melting point/freezing point Initial boiling point No data available f) and boiling range q) Flash point ()No data available h) Evaporation rate No data available No data available Flammability (solid, i) gas) Upper/lower No data available i) flammability or explosive limits k) Vapor pressure No data available I) Vapor density No data available No data available m) Relative density n) Water solubility soluble o) Partition coefficient: No data available

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n-octanol/water

- p) Autoignition Not applicable temperature
- q) Decomposition No data available temperature
- r) Viscosity No data available
- s) Explosive properties No data available
- t) Oxidizing properties No data available
- 9.2 Other safety information No data available

## **SECTION 10: Stability and reactivity**

#### **10.1** Reactivity

No data available

# 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

#### **10.3 Possibility of hazardous reactions** Violent reactions possible with: The generally known reaction partners of water.

#### **10.4** Conditions to avoid

no information available

- **10.5 Incompatible materials** Strong oxidizing agents
- **10.6 Hazardous decomposition products** In the event of fire: see section 5

## **SECTION 11: Toxicological information**

## **11.1** Information on toxicological effects

## Mixture

## **Acute toxicity**

No data available

Inhalation: No data available

Dermal: No data available

No data available

#### **Skin corrosion/irritation** No data available

#### Serious eye damage/eye irritation No data available

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# **Respiratory or skin sensitization**

No data available

## Germ cell mutagenicity

No data available

#### Carcinogenicity

- IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

#### **Reproductive toxicity**

No data available

#### **Specific target organ toxicity - single exposure** No data available

**Specific target organ toxicity - repeated exposure** No data available

Aspiration hazard No data available

# **11.2 Additional Information**

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately.

## Components

## Disodium sulphide nonahydrate

## **Acute toxicity**

LD50 Oral - Rat - male and female - 1,122 mg/kg (OECD Test Guideline 401) Remarks: (in analogy to similar products) Inhalation: No data available

Acute toxicity estimate Dermal - Expert judgment - 300.1 mg/kg No data available

Skin corrosion/irritation No data available

Serious eye damage/eye irritation No data available

**Respiratory or skin sensitization** No data available

## Germ cell mutagenicity

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Ames test Salmonella typhimurium Result: negative (anhydrous substance) In vitro mammalian cell gene mutation test Mouse lymphoma test Result: negative (anhydrous substance) OECD Test Guideline 474 Mouse - male and female - Bone marrow Result: negative (anhydrous substance)

# Carcinogenicity

## **Reproductive toxicity**

No data available

Specific target organ toxicity - single exposure No data available

Specific target organ toxicity - repeated exposure No data available

## **Aspiration hazard**

No data available

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

# Mixture

No data available

- 12.2 Persistence and degradability No data available
- **12.3 Bioaccumulative potential** No data available
- **12.4 Mobility in soil** No data available

# 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

# 12.6 Other adverse effects

No data available

# Components

## Disodium sulphide nonahydrate

Toxicity to fish

flow-through test LC50 - other fish - 0.003 mg/l - 96 h (OECD Test Guideline 203) Remarks: (anhydrous substance)

Toxicity to algae

static test ErC50 - Skeletonema costatum (marine diatom) - 0.104 mg/l - 4 h

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# SECTION 13: Disposal considerations

# **13.1 Waste treatment methods**

#### Product

Waste material must be disposed of in accordance with the national and loc No mixing with other waste. Handle uncleaned containers like the product See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

## **SECTION 14: Transport information**

## DOT (US)

Not dangerous goods

## IMDG

UN number: 3082 Class: 9 Packing group: III EMS-No: F-A, S-F Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Disodium sulphide nonahydrate) Marine pollutant : yes

## ΙΑΤΑ

UN number: 3082 Class: 9 Packing group: III Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Disodium sulphide nonahydrate)

#### **Further information**

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.Packages smaller than or equal to 5 kg / L , not dangerous goods of Class 9

# **SECTION 15: Regulatory information**

## SARA 302 Components

This material does not contain any components with a section 302 EHS TPQ.

## SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

## SARA 311/312 Hazards

No SARA Hazards

#### Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

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No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components water	CAS-No. 7732-18-5	Revision Date
New Jersey Right To Know Components water	CAS-No. 7732-18-5	Revision Date

# **SECTION 16: Other information**

#### **Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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