# SIGMA-ALDRICH

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SAFETY DATA SHEET

Version 3.6 Revision Date 06/29/2014 Print Date 11/10/2018

1. PF	1. PRODUCT AND COMPANY IDENTIFICATION		
1.1	Product identifiers Product name	:	Hydroxylamine-O-sulfonic acid
	Product Number Brand	:	480975 Aldrich
	CAS-No.	:	2950-43-8
1.2 Relevant identified uses of the substance or mixture and uses advised against		ne substance or mixture and uses advised against	
	Identified uses	:	Laboratory chemicals, Manufacture of substances
1.3	I.3 Details of the supplier of the safety data sheet		safety data sheet
	Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
	Telephone Fax	:	+1 800-325-5832 +1 800-325-5052
1.4	Emergency telephone number		
	Emergency Phone #	:	+1-703-527-3887 (CHEMTREC)
2. HAZARDS IDENTIFICATION			
2.1	Classification of the subs	tan	ce or mixture

## GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Skin corrosion (Category 1B), H314

Serious eye damage (Category 1), H318

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

# 2.2 GHS Label elements, including precautionary statements

Pictogram

A
$\checkmark$

Signal word	Danger
Hazard statement(s) H314	Causes severe skin burns and eye damage.
Precautionary statement(s) P260 P264 P280	Do not breathe dust or mist. Wash skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face
P301 + P330 + P331 P303 + P361 + P353	protection. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
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.
P321	Specific treatment (see supplemental first aid instructions on this label).
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

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

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

3.1	Substances		
	Formula	:	H <sub>3</sub> NO <sub>4</sub> S
	Molecular Weight	:	113.09 g/mol
	CAS-No.	:	2950-43-8
	EC-No.	:	220-971-6

#### Hazardous components

Component	Classification	Concentration
Hydroxylamine-o-sulphonic acid		
	Skin Corr. 1B; Eye Dam. 1;	-
	H314	
For the full text of the H Statements mentione	d in this Section see Section 16	

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

#### 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

#### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

#### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## 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

# **5. FIREFIGHTING MEASURES**

#### 5.1 Extinguishing media

## Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture nitrogen oxides (NOx), Sulphur oxides

## 5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

# 5.4 Further information

no data available

## 6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. 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 Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
- 6.4 **Reference to other sections** For disposal see section 13.

## 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

- Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.
- **7.2** Conditions for safe storage, including any incompatibilities Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: 2 - 8 °C

hygroscopic Keep in a dry place.

#### 7.3 Specific end use(s)

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

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

Components with workplace control parameters Contains no substances with occupational exposure limit values.

# 8.2 Exposure controls

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Personal protective equipment

#### Eye/face protection

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

#### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

## **Body Protection**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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

Do not let product enter drains.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

a)	Appearance	Form: powder Colour: beige
b)	Odour	no data available
c)	Odour Threshold	no data available
d)	рН	1
e)	Melting point/freezing point	Melting point/range: 210 °C (410 °F) - dec.
f)	Initial boiling point and boiling range	no data available
g)	Flash point	not applicable
h)	Evapouration rate	no data available
i)	Flammability (solid, gas)	no data available
j)	Upper/lower flammability or explosive limits	no data available
k)	Vapour pressure	no data available
I)	Vapour density	no data available
m)	Relative density	no data available
n)	Water solubility	soluble
o)	Partition coefficient: n- octanol/water	no data available
p)	Auto-ignition temperature	no data available
q)	Decomposition temperature	210 °C (410 °F) -
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

# **10. STABILITY AND REACTIVITY**

# 10.1 Reactivity

no data available

- **10.2 Chemical stability** Stable under recommended storage conditions.
- **10.3 Possibility of hazardous reactions** no data available
- **10.4 Conditions to avoid** Avoid moisture.
- **10.5 Incompatible materials** Strong oxidizing agents, Strong bases, Acid chlorides, Acid anhydrides, Corrodes metal
- **10.6 Hazardous decomposition products** Other decomposition products - no data available In the event of fire: see section 5

# 11. TOXICOLOGICAL INFORMATION

## **11.1** Information on toxicological effects

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

#### **Respiratory or skin sensitisation** no data available

no data available

# Germ cell mutagenicity no data available

## Carcinogenicity

- IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- NTP: No component 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 identified as a carcinogen or potential carcinogen by OSHA.

## **Reproductive toxicity**

no data available

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

# Additional Information

# RTECS: NC5427000

Cough, Shortness of breath, Headache, Nausea, Vomiting

# **12. ECOLOGICAL INFORMATION**

## 12.1 Toxicity

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

# **13. DISPOSAL CONSIDERATIONS**

## 13.1 Waste treatment methods

## Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

## Contaminated packaging

Dispose of as unused product.

# **14. TRANSPORT INFORMATION**

## DOT (US)

UN number: 3260 Class: 8 Packing group: III Proper shipping name: Corrosive solid, acidic, inorganic, n.o.s. (Hydroxylamine-o-sulphonic acid) Marine pollutant: No Poison Inhalation Hazard: No

# IMDG

UN number: 3260 Class: 8 Packing group: III EMS-No: F-A, S-B Proper shipping name: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Hydroxylamine-o-sulphonic acid) Marine pollutant: No

# ΙΑΤΑ

UN number: 3260 Class: 8 Packing group: III Proper shipping name: Corrosive solid, acidic, inorganic, n.o.s. (Hydroxylamine-o-sulphonic acid)

# **15. REGULATORY INFORMATION**

# SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

# SARA 313 Components

SARA 313: 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 Acute Health Hazard

## Massachusetts Right To Know Components

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

Pennsylvania Right To Know Components		Devision Data
Hydroxylamine-o-sulphonic acid	CAS-No. 2950-43-8	Revision Date
New Jersey Right To Know Components		Devision Data
Hydroxylamine-o-sulphonic acid	CAS-No. 2950-43-8	Revision Date

## California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## **16. OTHER INFORMATION**

Full text of H-Statements referred to under sections 2 and 3.

Eye Dam. H314 H318 Skin Corr.	Serious eye damage Causes severe skin burns and eye damage. Causes serious eye damage. Skin corrosion
HMIS Rating Health hazard: Chronic Health Haz Flammability: Physical Hazard	3 ard: 0 0
<b>NFPA Rating</b> Health hazard: Fire Hazard: Reactivity Hazard:	3 0 0

## Further information

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## **Preparation Information**

Sigma-Aldrich Corporation Product Safety – Americas Region 1-800-521-8956

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