## SIGMA-ALDRICH

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# Material Safety Data Sheet

Concentration

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Version 3.0 Revision Date 01/01/2009 Print Date 05/27/2009

### Product name S-Nitrosoglutathione

1. PRODUCT AND COMPANY IDENTIFICATION

Product Number N4148

Brand Sigma

: Sigma-Aldrich Canada, Ltd. Company 2149 Winston Park Drive

> OAKVILLE ON L6H 6J8 CANADA : +1 9058299500

: +1 9058299292

: 800-424-9300 2. COMPOSITION/INFORMATION ON INGREDIENTS

: SNOG Synonyms GSNO

Formula : C<sub>10</sub>H<sub>16</sub>N<sub>4</sub>O<sub>7</sub>S Molecular Weight : 336.32 g/mol

CAS-No. EC-No.

S-Nitrosoglutathione 57564-91-7

Index-No.

Moderate skin irritant Moderate respiratory irritant Moderate eye irritant

3. HAZARDS IDENTIFICATION

## Emergency Overview Target Organs

## Smooth muscle., Blood, Liver, Kidney WHMIS Classification D2B

Toxic Material Causing Other Toxic Effects

HMIS Classification

Health Hazard:

0 Flammability: Physical hazards: 0 Potential Health Effects

Chronic Health Hazard:

May be harmful if inhaled. Causes respiratory tract irritation. Inhalation Sigma - N4148

Wash off with soap and plenty of water. Consult a physician.

no data available

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

May be harmful if absorbed through skin. Causes skin irritation. Skin Eyes Causes eye irritation. May be harmful if swallowed. Ingestion

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4. FIRST AID MEASURES General advice Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If swallowed Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

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

## Flammable properties Flash point Ignition temperature no data available

Personal precautions

Methods for cleaning up

7. HANDLING AND STORAGE

protection.

Suitable extinguishing media

5. FIRE-FIGHTING MEASURES

In case of skin contact

In case of eye contact

Special protective equipment for fire-fighters Wear self contained breathing apparatus for fire fighting if necessary. 6. ACCIDENTAL RELEASE MEASURES

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Environmental precautions Do not let product enter drains.

## Handling Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Keep container tightly closed in a dry and well-ventilated place.

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## Eye protection Safety glasses Skin and body protection

standards such as NIOSH (US) or CEN (EU).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment Respiratory protection

Hand protection Handle with gloves.

place. Hygiene measures Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end

solid

no data available

no data available

no data available

Contains no substances with occupational exposure limit values.

## Appearance Form

Melting point

9. PHYSICAL AND CHEMICAL PROPERTIES

of workday.

Safety data рΗ

> no data available Boiling point Flash point no data available

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx), Sulphur

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Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1

(EN 143) respirator. Use respirators and components tested and approved under appropriate government

Choose body protection according to the amount and concentration of the dangerous substance at the work

Water solubility no data available 10. STABILITY AND REACTIVITY

Storage stability

Materials to avoid Strong oxidizing agents

oxides

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Acute toxicity no data available

no data available Chronic exposure

IARC:

Ignition temperature

Lower explosion limit no data available Upper explosion limit no data available

Stable under recommended storage conditions.

Hazardous decomposition products

11. TOXICOLOGICAL INFORMATION

Irritation and corrosion no data available Sensitisation

probable, possible or confirmed human carcinogen by IARC.

Causes eye irritation.

Elimination information (persistence and degradability)

May be harmful if swallowed.

Smooth muscle., Blood, Liver, Kidney,

No component of this product present at levels greater than or equal to 0.1% is identified as

May be harmful if inhaled. Causes respiratory tract irritation.

May be harmful if absorbed through skin. Causes skin irritation.

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

Potential Health Effects

Additional Information RTECS: MC0558000

12. ECOLOGICAL INFORMATION

Inhalation

Ingestion Target Organs

no data available

no data available

Skin

Ecotoxicity effects no data available

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

Not dangerous goods

Not dangerous goods

DOT (US)

Further information on ecology

13. DISPOSAL CONSIDERATIONS

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IATA Not dangerous goods 15. REGULATORY INFORMATION

S-Nitrosoglutathione

WHMIS Classification

Further information

D2B

Moderate eye irritant 16. OTHER INFORMATION

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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 Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

This product contains the following components that are not on the Canadian DSL nor NDSL lists.

Toxic Material Causing Other Toxic Effects

CAS-No.

Moderate skin irritant Moderate respiratory irritant

57564-91-7

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