

## SAFETY DATA SHEET

Revision Date 05/23/2016

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### 1. PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 Product identifiers

Product name : Sodium Selenite Disodium Salt

Product Number : SS1011

CAS-No. : 10102-18-8

#### 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 : Gojira Fine Chemicals  
5386 Majestic Pkwy, Ste. 7  
Bedford Heights, OH 44146

Telephone : 440-252-5397

Email : docsupport@gojirafc.com

Fax : 888-211-5523

#### 1.4 Emergency telephone number

Emergency Phone # : 800-255-3924 (ChemTel Contract# MIS7318160)

### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

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

Acute toxicity, Oral (Category 2), H300  
Acute toxicity, Inhalation (Category 2), H330  
Skin irritation (Category 2), H315  
Eye irritation (Category 2A), H319  
Skin sensitisation (Category 1), H317  
Acute aquatic toxicity (Category 2), H401  
Chronic aquatic toxicity (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

Danger

Hazard statement(s)

H300 + H330

Fatal if swallowed or if inhaled

H315

Causes skin irritation.

H317

May cause an allergic skin reaction.

H319

Causes serious eye irritation.

H411

Toxic to aquatic life with long lasting effects.

|                            |  |
|----------------------------|--|
| Precautionary statement(s) |  |
| P260                       | Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  |
| P264                       | Wash skin thoroughly after handling.   |
| P270                       | Do not eat, drink or smoke when using this product.  |
| P271                       | Use only outdoors or in a well-ventilated area.  |
| P272                       | Contaminated work clothing should not be allowed out of the workplace.   |
| P273                       | Avoid release to the environment.  |
| P280                       | Wear protective gloves/ eye protection/ face protection.   |
| P284                       | Wear respiratory protection.   |
| P301 + P310 + P330         | IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.  |
| P302 + P352                | IF ON SKIN: Wash with plenty of soap and water.  |
| P304 + P340 + P310         | IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.              |
| P305 + P351 + P338         | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P333 + P313                | If skin irritation or rash occurs: Get medical advice/ attention.  |
| P337 + P313                | If eye irritation persists: Get medical advice/ attention.   |
| P362                       | Take off contaminated clothing and wash before reuse.  |
| P391                       | Collect spillage.  |
| P403 + P233                | Store in a well-ventilated place. Keep container tightly closed.   |
| 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          | : | Na <sub>2</sub> O <sub>3</sub> Se |
| Molecular weight | : | 172.94 g/mol                      |
| CAS-No.          | : | 10102-18-8                        |
| EC-No.           | : | 233-267-9                         |
| Index-No.        | : | 034-003-00-3                      |

#### Hazardous components

| Component              | Classification  | Concentration |
|------------------------|---|---------------|
| <b>Sodium selenite</b> | Acute Tox. 2; Skin Irrit. 2; Eye Irrit. 2A; Skin Sens. 1; Aquatic Acute 2; Aquatic Chronic 2; H300 + H330, H315, H317, H319, H411 | <= 100 %      |

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

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

#### In case of eye contact

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

#### If swallowed

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

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### 5. FIREFIGHTING MEASURES

#### 5.1 Extinguishing media

##### Suitable extinguishing media

Dry powder

#### 5.2 Special hazards arising from the substance or mixture

No data available

#### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

#### 5.4 Further information

No data available

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### 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. 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

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

#### 6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Do not flush with water. Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

For disposal see section 13.

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### 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.

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.

Never allow product to get in contact with water during storage. Do not store near acids.

Keep in a dry place.

Storage class (TRGS 510): Non-combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials

#### 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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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

##### Components with workplace control parameters

| Component       | CAS-No.    | Value  | Control parameters | Basis   |
|-----------------|------------|--|--------------------|---|
| Sodium selenite | 10102-18-8 | TWA  | 0.200000 mg/m3     | USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants        |
|                 |            | TWA  | 0.200000 mg/m3     | USA. ACGIH Threshold Limit Values (TLV)   |
|                 | Remarks    | Upper Respiratory Tract irritation<br>Eye irritation |                    |   |
|                 |            | TWA  | 0.200000 mg/m3     | USA. NIOSH Recommended Exposure Limits  |
|                 |            | TWA  | 0.2 mg/m3          | USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants        |
|                 |            | TWA  | 0.2 mg/m3          | USA. ACGIH Threshold Limit Values (TLV)   |
|                 |            | Upper Respiratory Tract irritation<br>Eye irritation |                    |   |
|                 |            | TWA  | 0.2 mg/m3          | USA. NIOSH Recommended Exposure Limits  |
|                 |            | PEL  | 0.2 mg/m3          | California permissible exposure limits for chemical contaminants (Title 8, Article 107) |

## 8.2 Exposure controls

### Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

### 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

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

- |   |  |
|---|--|
| a) Appearance                                   | Form: powder<br>Colour: beige                            |
| b) Odour  | odourless  |
| c) Odour Threshold                              | No data available  |
| d) pH   | No data available  |
| e) Melting point/freezing point                 | Melting point/range: > 350 °C (> 662 °F) - lit.          |
| f) Initial boiling point and boiling range      | No data available  |
| g) Flash point                                  | No data available  |
| h) Evaporation rate                             | No data available  |
| i) Flammability (solid, gas)                    | not auto-flammable                                       |
| j) Upper/lower flammability or explosive limits | No data available  |
| k) Vapour pressure                              | < 0.00133 hPa (< 0.00100 mmHg) at 20 °C (68 °F)          |
| l) Vapour density                               | No data available  |
| m) Relative density                             | No data available  |
| n) Water solubility                             | 898 g/l at 25 °C (77 °F) - soluble                       |
| o) Partition coefficient: n-octanol/water       | No data available  |
| p) Auto-ignition temperature                    | > 400 °C (> 752 °F) at 1,013.25 hPa (760.00 mmHg)        |
| q) Decomposition temperature                    | No data available  |
| r) Viscosity                                    | No data available  |
| s) Explosive properties                         | No data available  |
| t) Oxidizing properties                         | The substance or mixture is not classified as oxidizing. |

### 9.2 Other safety information

No data available

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## 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

No data available

### 10.5 Incompatible materials

Strong acids

### 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Sodium oxides, Selenium/selenium oxides

Other decomposition products - No data available

In the event of fire: see section 5

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## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity

LD50 Oral - Rat - 7 mg/kg

Remarks: Behavioral:Somnolence (general depressed activity). Lungs, Thorax, or Respiration:Dyspnea. Diarrhoea

LD50 Oral - Rat - male - 7 mg/kg

LC50 Inhalation - Rat - male and female - 4 h - > 0.052 - 0.51 mg/l

Dermal: No data available

Dermal: No data available

LD50 Intravenous - Rat - 3 mg/kg

LD50 Parenteral - Rat - 6.57 mg/kg

LD50 Subcutaneous - Mouse - 13 mg/kg

LD50 Intravenous - Mouse - 5 mg/kg

Remarks: Peripheral Nerve and Sensation:Flaccid paralysis without anesthesia (usually neuromuscular blockage). Cardiac:Other changes. Lungs, Thorax, or Respiration:Other changes.

LD50 Intracervical - Mouse - 0.3 mg/kg

Remarks: Peripheral Nerve and Sensation:Flaccid paralysis without anesthesia (usually neuromuscular blockage). Behavioral:Change in motor activity (specific assay). Lungs, Thorax, or Respiration:Dyspnea.

LD50 Intravenous - Dog - 1.916 mg/kg

Remarks: Cardiac:Arrhythmias (including changes in conduction). Lungs, Thorax, or Respiration:Respiratory stimulation. Diarrhoea

LD50 Intramuscular - Rabbit - 2.53 mg/kg

LD50 Parenteral - Chicken - 8.5 mg/kg

LD50 Intramuscular - Domestic Animals - 1.533 mg/kg

Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Olfaction:Other changes. Behavioral:Somnolence (general depressed activity). Lungs, Thorax, or Respiration:Dyspnea.

#### Skin corrosion/irritation

Skin - reconstructed human epidermis (RhE)

Result: Irritating to skin.

(OECD Test Guideline 439)

#### Serious eye damage/eye irritation

No data available

#### Respiratory or skin sensitisation

- Mouse

May cause allergic skin reaction.

(OECD Test Guideline 429)

**Germ cell mutagenicity**

reverse mutation assay  
Salmonella typhimurium  
Result: negative

Mouse - male  
Result: negative

**Carcinogenicity**

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

- 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.
- 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: Not available

Salivation, Tremors, Alopecia., Vomiting, Dermatitis

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

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**12. ECOLOGICAL INFORMATION****12.1 Toxicity**

- |   |   |
|---|---|
| Toxicity to fish                                    | LC50 - Oncorhynchus mykiss (rainbow trout) - 2.75 mg/l - 96.0 h   |
| Toxicity to daphnia and other aquatic invertebrates | LC50 - Daphnia magna (Water flea) - 0.25 mg/l - 48 h  |
| Toxicity to algae                                   | static test EC50 - Chlamydomonas reinhardtii (green algae) - 6.32 mg/l - 96 h (OECD Test Guideline 201) |

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

Bioaccumulation Lepomis macrochirus - 120 d  
- 10 µg/l

Bioconcentration factor (BCF): 1,850

#### 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

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Toxic to aquatic life with long lasting effects.

No data available

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### 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.

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### 14. TRANSPORT INFORMATION

#### DOT (US)

UN number: 2630      Class: 6.1      Packing group: I  
Proper shipping name: Selenites (Sodium selenite)  
Reportable Quantity (RQ): 100 lbs

Poison Inhalation Hazard: No

#### IMDG

UN number: 2630      Class: 6.1      Packing group: I      EMS-No: F-A, S-A  
Proper shipping name: SELENITES (Sodium selenite)  
Marine pollutant:yes

#### IATA

UN number: 2630      Class: 6.1      Packing group: I  
Proper shipping name: Selenites (Sodium selenite)

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### 15. REGULATORY INFORMATION

#### SARA 302 Components

The following components are subject to reporting levels established by SARA Title III, Section 302:

|                 | CAS-No.    | Revision Date |
|-----------------|------------|---------------|
| Sodium selenite | 10102-18-8 | 2008-11-03    |

#### SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313:

|                 | CAS-No.    | Revision Date |
|-----------------|------------|---------------|
| Sodium selenite | 10102-18-8 | 2008-11-03    |

#### SARA 311/312 Hazards

Acute Health Hazard

#### Massachusetts Right To Know Components

|                 | CAS-No.    | Revision Date |
|-----------------|------------|---------------|
| Sodium selenite | 10102-18-8 | 2008-11-03    |

#### Pennsylvania Right To Know Components

|                 | CAS-No.    | Revision Date |
|-----------------|------------|---------------|
| Sodium selenite | 10102-18-8 | 2008-11-03    |

#### New Jersey Right To Know Components

|                 | CAS-No.    | Revision Date |
|-----------------|------------|---------------|
| Sodium selenite | 10102-18-8 | 2008-11-03    |



## 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.

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## 16. OTHER INFORMATION

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

|                 |                                      |
|-----------------|--------------------------------------|
| Acute Tox.      | Acute toxicity                       |
| Aquatic Acute   | Acute aquatic toxicity               |
| Aquatic Chronic | Chronic aquatic toxicity             |
| Eye Irrit.      | Eye irritation                       |
| H300            | Fatal if swallowed.                  |
| H300 + H330     | Fatal if swallowed or if inhaled     |
| H315            | Causes skin irritation.              |
| H317            | May cause an allergic skin reaction. |
| H319            | Causes serious eye irritation.       |
| H330            | Fatal if inhaled.                    |

### HMIS Rating

|                        |   |
|------------------------|---|
| Health hazard:         | 4 |
| Chronic Health Hazard: |   |
| Flammability:          | 0 |
| Physical Hazard        | 0 |

### NFPA Rating

|                    |   |
|--------------------|---|
| Health hazard:     | 4 |
| Fire Hazard:       | 0 |
| Reactivity Hazard: | 0 |

### Further information

The above information is believed to be accurate and represents the best information currently available to Gojira Fine Chemicals. However, we make no warranty or merchantability or any other warranty, express or Implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Gojira Fine Chemicals be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Gojira Fine Chemicals has been advised of the possibility of such damages.