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Sodium Silicate, ~37%

## **SECTION 1: Identification**

**Product identifier** 

Product name: Sodium Silicate, ~37%

Product code: S25566A

Recommended use of the product and restriction on use

**Relevant identified uses:** Not determined or not applicable. **Uses advised against:** Not determined or not applicable.

Reasons why uses advised against: Not determined or not applicable.

### Manufacturer or supplier details

Manufacturer: Supplier:

AquaPhoenix Scientific Fisher Science Education 860 Gitts Run Road 6771 Silver Crest Road

Hanover Nazareth
PA 17331 PA 18064
(717) 632-1291 800 955-1177

### **Emergency telephone number:**

**United States** 

Emergency Telephone No.: 800-255-3924

## **SECTION 2: Hazard identification**

### **GHS** classification:

Corrosive to metals, category 1

Skin corrosion, category 1A

Serious eye damage, category 1

Specific target organ toxicity - single exposure, category 3, respiratory irritation

Specific target organ toxicity - repeated exposure, category 1

### **Label elements**

## **Hazard pictograms:**







Signal word: Danger

### **Hazard statements:**

H290 May be corrosive to metals

H314 Causes severe skin burns and eye damage

H318 Causes serious eye damage

H335 May cause respiratory irritation

H372 Causes damage to organs through prolonged or repeated exposure

## **Precautionary statements:**

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## Sodium Silicate, ~37%

P234 Keep only in original container

P260 Do not breathe dust/fume/gas/mist/vapors/spray

P264 Wash skin thoroughly after handling

P280 Wear protective gloves/protective clothing/eye protection/face protection

P271 Use only outdoors or in a well-ventilated area

P270 Do not eat, drink or smoke when using this product

P390 Absorb spillage to prevent material damage

P321 Specific treatment (see supplemental first aid instructions on this label).

P363 Wash contaminated clothing before reuse

P304+P340+P310 If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician

P301+P330+P331+P310 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

P303+P361+P353+P310 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.

Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.

P305+P351+P338+P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

P314 Get medical advice/attention if you feel unwell

P406 Store in corrosive resistant stainless steel container with a resistant inner liner

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: 1310-73-2	Sodium hydroxide	10-20
CAS number: 6834-92-0	Disodium metasilicate	50-70
CAS number: 7631-86-9	Silicon Dioxide	20-30

**Additional Information: None** 

# **SECTION 4: First-aid measures**

### **Description of first-aid measures**

#### **General notes:**

Not determined or not available.

#### 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

Immediately call a POISON CONTROL CENTER or seek medical attention

#### After skin contact:

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# Sodium Silicate, ~37%

Rinse affected area with soap and water

If symptoms develop or persist, seek medical attention

Immediately remove all contaminated clothing

Wash affected area with soap and water

Immediately call a POISON CONTROL CENTER or seek medical attention

#### After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes

If symptoms develop or persist, seek medical attention

Remove contact lens(es) if able to do so during rinsing

Immediately call a POISON CONTROL CENTER or seek medical attention

#### After ingestion:

Rinse mouth thoroughly

Seek medical attention if irritation, discomfort, or vomiting persists

Immediately call a POISON CONTROL CENTER or seek medical attention

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 available.

## **Delayed symptoms and effects:**

Not determined or not available.

#### Immediate medical attention and special treatment

### **Specific treatment:**

Not determined or not available.

#### Notes for the doctor:

Not determined or not available.

### **SECTION 5: Fire-fighting 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

May form corrosive mixtures with water

# Special protective equipment for firefighters:

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

#### **Special precautions:**

Not determined or not applicable.

# **SECTION 6: Accidental release measures**

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

Ensure adequate ventilation

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## Sodium Silicate, ~37%

Ensure air handling systems are operational Wear protective eye wear, gloves and clothing

#### **Environmental precautions:**

Should not be released into the environment

Prevent from reaching drains, sewer or waterway

### Methods and material for containment and cleaning up:

Wear protective eye wear, gloves and clothing

Absorb with non-combustible liquid-binding material (sand, diatomaceous earth (clay), acid binders, universal binders)

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 mist or vapor.

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

# Conditions for safe storage, including any incompatibilities:

Keep container tightly sealed.

Protect from freezing and physical damage.

Store in a cool, well-ventilated area.

Store in corrosive resistant container with a resistant inner lining.

### **SECTION 8: Exposure controls/personal protection**

Only those substances with limit values have been included below.

### Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
ACGIH	Sodium hydroxide	1310-73-2	ACGIH TLV C 2.0 mg/m <sup>3</sup>
United States (OSHA)	Sodium hydroxide	1310-73-2	OSHA PEL TWA 2.0 mg/m <sup>3</sup>
NIOSH	Sodium hydroxide	1310-73-2	NIOSH REL C 2.0 mg/m <sup>3</sup>
	Sodium hydroxide	1310-73-2	NIOSH IDLH 10.0 mg/m <sup>3</sup>
Canada	Silicon Dioxide	7631-86-9	British Columbia OELs - 8-Hour TWA Exposure Value: 4 mg/m³ (Silica, amorphous, precipitated and gel, Total)
	Silicon Dioxide	7631-86-9	British Columbia OELs - 8-Hour TWA Exposure Value: 1.5 mg/m³ (Silica, amorphous, precipitated and gel, Respirable)
	Silicon Dioxide	7631-86-9	Quebec OELs - 8-Hour TWA Exposure Value: 6 mg/m³ (Respirable dust)

# **Biological limit values:**

No biological exposure limits noted for the ingredient(s).

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## Sodium Silicate, ~37%

#### 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.

### Personal protection equipment

# **Eye and face protection:**

Safety goggles or glasses, or appropriate eye protection.

### Skin and body protection:

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 (physical state, color):	Colorless, turbid liquid
Odor:	Slight soapy odor
Odor threshold:	Not determined or not available.
pH-value:	12.5
Melting/Freezing point:	- 1°C
Boiling point/range:	101-102°C
Flash point:	Not determined or not available.
Evaporation rate:	Not determined or not available.
Flammability (solid, gaseous):	Not determined or not available.
Explosion limit upper:	Non Explosive
Explosion limit lower:	Non Explosive
Vapor pressure:	Not determined or not available.
Vapor density:	Not determined or not available.
Density:	1.380 -1.420 g/l at 20°C
Relative density:	Not determined or not available.
Solubilities:	Soluble.
Partition coefficient (n-octanol/water):	Not determined or not available.
Auto/Self-ignition temperature:	Not determined or not available.

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## Sodium Silicate, ~37%

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 of use and storage.

### Possibility of hazardous reactions:

None under normal conditions of use and storage.

### Conditions to avoid:

None known.

### Incompatible materials:

None known.

# **Hazardous decomposition products:**

None known.

## **SECTION 11: Toxicological information**

#### **Acute toxicity**

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

Product data: No data available.

Substance data: No data available.

# Skin corrosion/irritation

Assessment: Causes severe skin burns and eye damage

Product data: No data available.

Substance data:

Name	Result
Sodium hydroxide	Causes severe skin burns and eye damage.
Disodium metasilicate	Causes severe skin burns and eye damage.

# Serious eye damage/irritation

**Assessment:** Causes serious eye damage

**Product data:** No data available. **Substance data:** No data available.

#### 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

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### Sodium Silicate, ~37%

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):

Name	Classification
Silicon Dioxide	Group 3 - Not classifiable as to its carcinogenicity to humans

**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:

Name	Result
	Specific Target Organ Toxicity, Single Exposure - May cause respiratory irritation through inhalation.

### Specific target organ toxicity (repeated exposure)

**Assessment:** Causes damage to organs through prolonged or repeated exposure

**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.

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

**Product data:** No data available. **Substance data:** No data available.

Chronic (long-term) toxicity

Product data: No data available.

Substance data: No data available.

### Persistence and degradability

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## Sodium Silicate, ~37%

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.

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**

# **Canadian Transportation of Dangerous Goods (TDG)**

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

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Sodium Silicate, ~37%

# **SECTION 15: Regulatory information**

### Canada regulations

### **Domestic substances list (DSL):**

1310-73-2	Sodium hydroxide	Listed
7631-86-9	Silicon Dioxide	Listed
6834-92-0	Disodium metasilicate	Listed

Non-domestic substances list (NDSL): Not determined.

# **SECTION 16: Other information**

## **Abbreviations and Acronyms: None**

#### Disclaimer:

This product has been classified in accordance with the Canadian Hazardous Products Regulations and WHMIS 2015. 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:** 3-0-0-cor **HMIS:** 3-0-0-X

**Initial preparation date:** 02.23.2018

**End of Safety Data Sheet**