

# **Material Safety Data Sheet**

## Section 1. Chemical Product and Company Identification

Product name NATURAL

**Product use** Cleaner. Disinfectant. Deodorizer

Product code 0677

Date of issue 12/30/10 Supersedes 03/26/08

## **Emergency Telephone Numbers**

#### **For MSDS Information:**

Technical Services Group Telephone (780) 453-8100 (Business Hours 8:00am - 5:00pm)

## For Medical or Transportation Emergency

CANUTEC (24 Hours)

(613) 996-6666 - Call Collect

## **Prepared By**

Technical Services Group 11627 178th Street Edmonton, Alberta T5S 1N6

# Section 2. Hazards Identification

Printing date: 30/12/10

**Emergency overview** 

DANGER!

**Eyes** 

CAUSES EYE BURNS. CAUSES SKIN IRRITATION. MAY BE HARMFUL IF SWALLOWED.

Do not breathe vapor or mist. Do not ingest. Do not get in eyes or on skin or clothing.

Use only with adequate ventilation. Wash thoroughly after handling.

NOTE: MSDS data pertains to the product as delivered in the original shipping container(s). Risk of adverse effects are lessened by following all prescribed safety precautions, including the use of proper personal protective equipment.

Acute Effects Routes of Entry Dermal contact. Eye contact.

Corrosive to eyes. Causes burns. Direct contact with the eyes can cause irreversible damage,

including blindness.

**Skin** Irritating to skin. Skin inflammation is characterized by itching, scaling, or reddening.

**Inhalation** Over-exposure by inhalation may cause respiratory irritation.

**Ingestion** Harmful if swallowed. May cause burns to mouth, throat and stomach.

<u>Chronic effects</u> Repeated eye exposure may produce chronic inflammation of the eye or corneal damage.

Prolonged or repeated contact with skin or mucous membrane may result in irritation symptoms,

such as redness, blistering, dermatitis etc.

Additional Information: See Toxicological Information (Section 11)

#### Section 3. Composition/Information on Ingredients

| ,   |                       |                   |             |
|---|-----------------------|-------------------|-------------|
| Name of Hazardous Ingredients   |                       | CAS number        | % by Weight |
| SODIUM METASILICATE; silicic acid (H2-Si-O3) disodium salt; wa          | nter glass            | 6834-92-0         | 1 - 5       |
| QUATERNARY AMMONIUM CHLORIDES; blend of alkyl dimetl                    | nylbenzyl ammonium    | 85409-23-0; 68391 | - 1 - 5     |
| chlorides, alkyl dimethyl ethylbenzyl ammonium chlorides, and ethan     | ol                    | 01-5              |             |
| TETRASODIUM ETHYLENEDIAMINE TETRAACETATE; ethylenediamine tetraacetate; | nediamine tetraacetic | 64-02-8           | 1 - 5       |
| acid; tetrasodium salt  |                       |                   |             |
| TETRAPOTASSILIM PYROPHOSPHATE: tknn: diphosphoric acid                  | etrapotassium salt    | 7320-34-5         | 1 - 5       |

#### Section 4. First Aid Measures

**Eye Contact** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and

remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly

by a physician.

**Skin Contact** Flush affected skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing

thoroughly with water before removing or wear gloves. Continue to rinse for at least 10 minutes. Wash clothing

before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms appear.

**Inhalation** Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide

artificial respiration or oxygen by trained personnel. Get medical attention.

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Ingestion

Get medical attention immediately. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Never give anything by mouth to an unconscious person. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician.

#### Section 5. Fire Fighting Measures

Not available. **Flash Point** Flammable Limits Not available. **Flammability** Non-combustible.

**Auto-ignition Temperature** 

**Fire-Fighting Procedures** Fire-fighters should wear appropriate protective equipment and self-contained breathing

apparatus (SCBA) with a full face-piece operated in positive pressure mode. In case of fire, use

water spray (fog), foam, dry chemical or CO<sub>2</sub>.

Fire hazard In a fire or if heated, a pressure increase will occur and the container may burst.

May emit toxic fumes under fire conditions. carbon oxides (CO, CO<sub>2</sub>) **Products of Combustion** 

**Explosion hazard** Not available.

#### Section 6. Accidental Release Measures

Spill Clean up Put on appropriate personal protective equipment (see section 8). Stop leak if without risk. Move containers

from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in

an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

## Section 7. Handling and Storage

Put on appropriate personal protective equipment (see section 8). Do not get in eyes or on skin or clothing. Do not Handling

breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made

from a compatible material, kept tightly closed when not in use. Wash thoroughly after handling.

**Storage** Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible

> materials (see section 10) and food and drink. Store between the following temperatures: 40°F - 120°F (4.4°C - 49°C). Separate from acids. Keep away from oxidizing agents. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Keep out of the reach

of children.

#### Section 8. Exposure Controls/Personal Protection

**Product name Exposure limits** 

Supplier Suggested (United States). Sodium Metasilicate

CEIL: 2 mg/m³ Form:

#### **Personal Protective Equipment (PPE)**

Recommended: Splash goggles. **Eyes** 

Hands and Recommended: Neoprene gloves. Nitrile gloves. Rubber gloves.

**Body** 

**Respiratory** Use with adequate ventilation. A respirator is not needed under normal and

intended conditions of product use.

## Section 9. Physical and Chemical Properties

Color Clear. Colorless. **Physical State** Liquid. pН 12.9 Odor Odorless. 101°C (213.8°F) Vapor Pressure Not determined. **Boiling Point** 

Specific Gravity 1.08 Vapor Density Not determined. **Solubility** Easily soluble in the following materials: cold water **Evaporation Rate** 1 (Water = 1)

and hot water.

**VOC (Consumer)** 2 (g/l). 0.2% **Freezing Point** 

#### Section 10. Stability and Reactivity

Stability and Reactivity The product is stable.

Incompatibility Reactive or incompatible with the following materials: oxidizing materials. acids

**Hazardous Polymerization** Will not occur.

**Hazardous Decomposition Products** Under normal conditions of storage and use, hazardous decomposition products should not be

produced.

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# Section 11. Toxicological Information

Carcinogenicity Ingredients: Not listed as carcinogen by OSHA, NTP or IARC.

# **Acute Toxicity**

| Product/ingredient name                     | Result      | Species | Dose        | <b>Exposure</b> |
|---|-------------|---------|-------------|-----------------|
| disodium metasilicate                       | LD50 Oral   | Mouse   | 770 mg/kg   | -               |
|   | LD50 Oral   | Rat     | >1000 mg/kg | -               |
|   | LD50 Oral   | Rat     | 1153 mg/kg  | -               |
| Quaternary Ammonium Chlorides               | LD50 Dermal | Rabbit  | >2000 mg/kg | -               |
|   | LD50 Oral   | Rat     | >500 mg/kg  | -               |
| Tetrasodium Ethylenediamine<br>Tetraacetate | LD50 Oral   | Rat     | 4100 mg/kg  | -               |

#### Section 12. Ecological Information

**Environmental Effects** No known significant effects or critical hazards.

**Aquatic Ecotoxicity** 

 Product/ingredient name
 Test
 Result
 Species
 Exposure

 Quaternary Ammonium Chlorides
 Acute EC50 0.058 mg/L
 Daphnia
 48 hours

 Acute LC50 0.52 mg/L
 Fish - Bluegill.
 96 hours

# Section 13. Disposal Considerations

#### **Waste Information**

Waste must be disposed of in accordance with applicable regulations. Consult your local or regional authorities for additional information.

#### **Waste Stream**

# Section 14. Transport Information

| Regulatory information | UN number      | Proper shipping name  | Classes        | PG* | Label | Additional information                     |
|------------------------|----------------|---|----------------|-----|-------|--|
| TDG Classification     | 1903           | Disinfectant, Liquid,<br>Corrosive, n.o.s. (Quaternary<br>Ammonium Chlorides) | 8              | II  |       | Explosive Limit and Limited Quantity Index |
| IMDG Class             | Not available. | Not available.  | Not available. | -   |       | -  |

NOTE: DOT classification applies to most package sizes. For specific container size classifications or for size exceptions, refer to the Bill of Lading with your shipment. Limited Quantity: Small quantities of controlled goods are not regulated as Dangerous Goods according to TDG regulations.

PG\* : Packing group

#### Section 15. Regulatory Information

## **Canada**

WHMIS (Canada) Not controlled under WHMIS (Canada). Regulated under other Act

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

## Section 16. Other Information

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.