SAFETY DATA SHEET
Sesqui™ Sodium Sesquicarbonate

TRONOX

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name
Sesqui™ Sodium Sesquicarbonate

Other means of identification

Product Code(s)
533-96-0

Synonyms
Trisodium Hydrogendifcarbonate, Sesqui

Recommended use of the chemical and restrictions on use

Recommended Use:
Industrial cleaner ingredient, bath salt ingredient, water softener, diaper rinse ingredient, pH adjustment, water treatment, food additive, food and dairy plant sanitizers

Restrictions on Use:
See section 16 for more information

Manufacturer Address
Tronox Alkali Wyoming Corporation
1735 Market Street
Philadelphia, PA 19103
Tel: +1 877-362-2248 or +1 215-299-6904
www.tronox.com

Emergency telephone number
1 307 / 672 2452 (Plant - Green River, WY)
(303) 595-9048 (Medical - U.S. - Call Collect)
For leak, fire, spill or accident emergencies, call:
1 800 / 424 9300 (CHEMTREC - U.S.A.)
1 703 / 527 3887 (CHEMTREC - Collect - All Other Countries)

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

<table>
<thead>
<tr>
<th>Serious eye damage/eye irritation</th>
<th>Category 2</th>
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</table>

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GHS Label elements, including precautionary statements.

**EMERGENCY OVERVIEW**

**Warning**

**Hazard Statements**

H319 - Causes serious eye irritation

![Exclamation mark]

**Precautionary Statements - Prevention**

P264 - Wash face, hands and any exposed skin thoroughly after handling

P280 - Wear eye protection/ face protection

**Precautionary Statements - Response**

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337 + P313 - If eye irritation persists: Get medical advice/ attention

**Hazards not otherwise classified (HNOC)**

No hazards not otherwise classified were identified.

**Other Information**

May be harmful if swallowed.

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Formula**

NaHCO₃, Na₂CO₃

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No</th>
<th>Weight %</th>
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</thead>
<tbody>
<tr>
<td>Sodium Sesquicarbonate</td>
<td>533-96-0</td>
<td>100</td>
</tr>
</tbody>
</table>

Synonyms are provided in Section 1.

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## 4. FIRST AID MEASURES

**Eye Contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

**Skin Contact**

Wash skin with soap and water. Get medical attention if irritation develops and persists.

**Inhalation**

Remove person to fresh air. If signs/symptoms continue, get medical attention.

**Ingestion**

Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.
Most important symptoms and effects, both acute and delayed

None known.

Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific Hazards Arising from the Chemical Hazardous Combustion Products

None in particular

Fumes of sodium oxide.

Explosion data

Sensitivity to Mechanical Impact: Not sensitive.

Sensitivity to Static Discharge: Not sensitive.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Sweep up to prevent slipping hazard. For personal protection see section 8.

Other

For further clean-up instructions, call Emergency Hotline number listed in Section 1 "Product and Company Identification" above.

Environmental Precautions

Keep material out of lakes, streams, ponds, and sewer drains. See Section 12 for additional ecological information.

Methods for Containment

Vacuum or shovel waste into a drum and label contents for disposal. Avoid dust formation.

Methods for cleaning up

Pick up and transfer to properly labeled containers. Keep in suitable and closed containers for disposal. Dispose of waste as indicated in Section 13.

7. HANDLING AND STORAGE

Handling

Keep away from incompatible products (acids). Provide appropriate exhaust ventilation at places where dust is formed. Reference to other sections.

Storage

Keep in a dry, cool and well-ventilated place. Keep away from heat and strong odor. Keep away from incompatible products (acids).

Incompatible products

Except under controlled conditions: Acids

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies. Local nuisance dust standards apply.

Appropriate engineering controls

Engineering measures

Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.
Individual protection measures, such as personal protective equipment

Eye/Face Protection  Safety glasses with side-shields.
Skin and Body Protection  Wear suitable protective clothing. Protective shoes or boots.
Hand Protection  Protective gloves.
Respiratory Protection  In case of inadequate ventilation wear respiratory protection.
Hygiene measures  Handle in accordance with good industrial hygiene and safety practice.
General information  If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance  White, odorless, needle-shaped particles
Physical State  Solid
Color  White to off white
Odor  odorless
Odor threshold  Not applicable
pH  9.9  (1% solution)
Melting point/freezing point  Decomposes on heating
Boiling Point/Range  No information available
Flash point  Not applicable
Evaporation Rate  No information available
Flammability (solid, gas)  No information available
Flammability Limit in Air  
  Upper flammability limit:  No information available
  Lower flammability limit:  No information available
Vapor pressure  No information available
Vapor density  No information available
Density  No information available
Specific gravity  2.12
Water solubility  17.1 % @ 25 °C
Solubility in other solvents  No information available
Partition coefficient  No information available
Autoignition temperature  No information available
Decomposition temperature  Decomposes on heating
Viscosity, kinematic  No information available
Viscosity, dynamic  No information available
Explosive properties  No information available
Oxidizing properties  Non-oxidizing
Molecular weight  No information available
Bulk density  0.74  g/cm³
Kf  0  bar m/s

10. STABILITY AND REACTIVITY

Reactivity  None under normal use conditions.
Chemical Stability  Stable.
Possibility of Hazardous Reactions  None under normal processing.
Hazardous polymerization  Hazardous polymerization does not occur.
Conditions to avoid  Avoid contact with acids. Heat, Humid air, strong odor.
Incompatible materials  Except under controlled conditions: Acids.

Hazardous Decomposition Products Carbon dioxide (CO₂), Sodium oxides.

### 11. TOXICOLOGICAL INFORMATION

**Product Information**

- **LD₅₀ Oral**: > 2000 mg/kg (rat)
- **LD₅₀ Dermal**: No information available
- **LC₅₀ Inhalation**: > 5.03 mg/L 4 hr (rat)

**Eye Contact**: Irritating to eyes.

**Skin Contact**: Non-irritating (rabbit)

**Sensitization**: Non-sensitizing.

**Information on toxicological effects**

**Symptoms**: No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

- **Chronic toxicity**: No known effect.
- **Mutagenicity**: Not mutagenic
- **Carcinogenicity**: Not recognized as carcinogenic by Research Agencies (IARC, NTP, OSHA, ACGIH).
- **Reproductive toxicity**: No information available.
- **STOT - single exposure**: No information available.
- **STOT - repeated exposure**: No information available.
- **Aspiration hazard**: No information available.

### 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

**Persistence and degradability**: Biodegradability does not pertain to inorganic substances.

**Bioaccumulation**: Does not bioaccumulate.

**Mobility**: Dissociates into ions.

**Other Adverse Effects**: None known.

### 13. DISPOSAL CONSIDERATIONS

**Waste disposal methods**: This material, as supplied, is not a hazardous waste according to state and federal regulations (40 CFR 261). Dispose of in accordance with local regulations.

**Contaminated Packaging**: Dispose of in accordance with local regulations.

### 14. TRANSPORT INFORMATION

**DOT**: NOT REGULATED
15. REGULATORY INFORMATION

U.S. Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

- Acute health hazard: Yes
- Chronic health hazard: No
- Fire hazard: No
- Sudden release of pressure hazard: No
- Reactive Hazard: No

Clean Water Act
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated by state right-to-know regulations

International Inventories

<table>
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<tr>
<th>Component</th>
<th>TSCA (United States)</th>
<th>DSL (Canada)</th>
<th>EINECS/ELINCS (Europe)</th>
<th>ENCS (Japan)</th>
<th>China (IECSC)</th>
<th>KECL (Korea)</th>
<th>PICCS (Philippines)</th>
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<td>Sodium Sesquicarbonate 533-96-0</td>
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WHMIS Hazard Class

D2B - Toxic materials, Eye irritation
16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Instability</th>
<th>Special Hazards</th>
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<th>Physical hazard</th>
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NFPA/HMIS Ratings Legend
Severe = 4; Serious = 3; Moderate = 2; Slight = 1; Minimal = 0

Product Certifications
This product meets the chemical testing specifications defined in the Food Chemicals Codex (FCC), 8th Edition.

This product is certified to NSF/ANSI Standard 60 for use in drinking water treatment at the specified maximum use limit. The MUL (maximum use level) for sodium sesquicarbonate is 100 mg/L under NSF/ANSI Standard 60.

Revision date: 2015-03-30
Revision note: Minor change

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Prepared By:
Tronox Limited

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End of Safety Data Sheet