Material Safety Data Sheet
Sesqui™ Sodium Sesquicarbonate

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Sesqui™ Sodium Sesquicarbonate
Synonyms: Trisodium Hydrogendicarbonate, Sesqui
Recommended use: Industrial cleaner ingredient, bath salt ingredient, water softener, diaper rinse ingredient, pH adjustment, water treatment, food additive, food and dairy plant sanitizers
Manufacturer: FMC Wyoming Corporation
Alkali Chemicals Division
1735 Market Street
Philadelphia, PA 19103
Tel: +1 215 / 299 6000
E-Mail: msdsinfo@fmc.com

2. HAZARDS IDENTIFICATION

Emergency Overview
White, odorless, needle-shaped particles
Reacts with acids to release carbon dioxide and heat

Potential health effects

Acute Toxicity
- Eyes: May cause irritation.
- Skin: Prolonged or repeated contact may dry skin and cause irritation.
- Inhalation: May cause irritation of respiratory tract.

Chronic Toxicity: No known effect.

3. COMPOSITION/INFORMATION ON INGREDIENTS

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

4. FIRST AID MEASURES
Eye contact  
Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if irritation develops and persists.

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  
Rinse mouth with water and afterwards drink plenty of water or milk. Get medical attention if symptoms occur.

### 5. FIRE-FIGHTING MEASURES

**Flammable properties**  
Not combustible.

**Flash Point**  
Not combustible

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

**Hazardous combustion products**  
Fumes of sodium oxide.

**Explosion Data**

<table>
<thead>
<tr>
<th>Sensitivity to Mechanical Impact</th>
<th>Not sensitive.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensitivity to Static Discharge</td>
<td>Not sensitive.</td>
</tr>
</tbody>
</table>

**Specific hazards arising from the chemical**  
None in particular.

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazard</th>
<th>Flammability</th>
<th>Stability</th>
<th>Special Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>-</td>
</tr>
</tbody>
</table>

### 6. ACCIDENTAL RELEASE MEASURES

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

**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). Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed. Reference to other sections.

**Storage**  

### 8. Exposure controls/personal protection

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

**Occupational exposure controls**

**Engineering measures**  
Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.
Respiratory protection  If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Eye/face protection  Safety glasses with side-shields

Skin and body protection  Wear suitable protective clothing. Protective shoes or boots.

Hand protection  Protective gloves

Hygiene measures  Handle in accordance with good industrial hygiene and safety practice Do not eat, drink or smoke when using this product. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>White, odorless, needle-shaped particles</td>
</tr>
<tr>
<td>Color</td>
<td>white to off white</td>
</tr>
<tr>
<td>Physical state</td>
<td>solid</td>
</tr>
<tr>
<td>Odor</td>
<td>odorless</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not applicable</td>
</tr>
<tr>
<td>pH</td>
<td>9.9 (1% solution)</td>
</tr>
<tr>
<td>Melting Point/Range</td>
<td>Decomposes on heating. (about 275 °C)</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No information available</td>
</tr>
<tr>
<td>Boiling Point/Range</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not combustible</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flammable properties</td>
<td>Not combustible</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>Non-oxidizing</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No information available</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>2.12</td>
</tr>
<tr>
<td>Bulk density</td>
<td>0.74 g/cm³</td>
</tr>
<tr>
<td>Water solubility</td>
<td>17.1 % @ 25 °C</td>
</tr>
<tr>
<td>Percent volatile</td>
<td>No information available</td>
</tr>
<tr>
<td>Partition coefficient:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No information available</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>135 °C</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>Not combustible</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Stability  Stable.

Conditions to avoid  Avoid contact with acids

Materials to avoid  Acids

Hazardous decomposition products  Carbon dioxide (CO₂).

Hazardous polymerization  Hazardous polymerization does not occur.

Hazardous reactions  None under normal processing.

11. TOXICOLOGICAL INFORMATION

Acute effects
Eye irritation  Non-irritating (rabbit)
Skin irritation Non-irritating (rabbit)

LD50 Oral > 2800 mg/kg (Rat)
LD50 Dermal No information available
LC50 Inhalation: > 5.03 mg/L 4 hr (Rat)

Sensitization Non-sensitizing, guinea pig

Chronic Toxicity

Chronic Toxicity No known effect.

12. ECOLOGICAL INFORMATION

Ecotoxicity Not expected to have significant environmental effects

Persistence and degradability Biodegradability does not pertain to inorganic substances.
Bioaccumulation Does not bioaccumulate.
Mobility Dissociates into ions.
Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Waste disposal methods This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated packaging Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

DOT not regulated
TDG not regulated
ICAO/IATA not regulated
IMDG/IMO not regulated

15. REGULATORY INFORMATION

International Inventories
TSCA Inventory (United States of America) Complies
DSL (Canada) Complies
NDSL (Canada) Complies
EINECS/ELINCS (Europe) Complies
ENCS (Japan) Complies
IECSC (China) Complies
Sesqui™ Sodium Sesquicarbonate

KECL (Korea) Complies
PICCS (Philippines) Complies
AICS (Australia) Complies
NZIoC (New Zealand) Complies

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 no
- Chronic Health Hazard no
- Fire Hazard no
- Sudden Release of Pressure Hazard no
- Reactive Hazard no

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.

International Regulations
Mexico - Grade Slight risk, Grade 1

Canada
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.
WHMIS Hazard Class Non-controlled
16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>HMIS</th>
<th>Health Hazard</th>
<th>Flammability</th>
<th>Stability</th>
<th>Special precautions</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: 2013-10-28
Reason for revision: (M)SDS sections updated. 16.

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End of Material Safety Data Sheet