

Safety Data Sheet

Issued Date: November 30, 2015

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Version 1

1. IDENTIFICATION

Product Identifier

Product Name SN:013 Sodium Metasilicate Anhydrous

Other means of identification

Product Code SN:013

Recommended use of the chemical and restrictions on use

Recommended Use Cleaner, detergents / soaps

Details of the supplier of the safety data sheet

Missouri Vocational Enterprises
2727 Highway K
Bonne Terre, MO 63628
Phone: (573) 358-5516

Emergency Telephone Number

INFOTRAC 1-800-535-5053 (North America)
1-352-323-3500 (International)

2. HAZARDOUS IDENTIFICATION

Signal Word DANGER

| Classification | Hazard Category |
|--|-----------------|
| Skin - Corrosion/Irritation | 1B |
| Eye - Damage /Irritation | 1 |
| Acute Toxicity - Oral | 4 |
| Specific Target Organ Toxicity - Single Exposure | 3 |

Health Hazard Statement(s)

H290 – May be corrosive to metals.

H302 – Harmful if swallowed.

H314 – Causes severe skin burns and eye damage.

H318 – Causes serious eye damage.

H335 – May cause respiratory irritation.

Hazard Pictogram(s)



Hazard Ratings

| | HMIS | NFPA |
|--------------|------|------|
| Health | 3 | 3 |
| Flammability | 0 | 0 |
| Reactivity | 0 | 0 |
| PPE | F | N/A |

Precautionary Statement(s)

P234 – Keep only in original container.

P260 – Do not breathe dust or mists.

P264 – Wash face, hands and any exposed 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.

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

P301+P330+P331 – IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.

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

water/shower.

P304+P340 – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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

P310 – Immediately call a POISON CENTER or doctor/physician.

P391 – Collect spillage.

P403+P233 – Store in a well-ventilated place. Keep container tightly closed.

P405 – Store locked up.

P406 – Store in a corrosive resistant container with a resistant inner liner.

P501 – Dispose of contents and container in accordance with applicable local, regional, national, and/or international regulations.

Potential Health Effects

Skin Contact May cause skin corrosion/irritation/burns.

Eye Contact May cause eye damage.

Inhalation May cause respiratory irritation.

Ingestion May be harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENT

| Chemical Name/Pure Substance | CAS # | Weight-% |
|------------------------------|-----------|----------|
| Sodium Metasilicate | 6834-92-0 | 95-99 |
| Sodium Carbonate | 497-19-3 | 0-3 |
| Water | 7732-18-5 | 0-2 |

**If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

General Advice If you feel unwell, seek medical advice (show label where possible).

Eye Contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 total minutes. Get medical advice/attention.

Skin Contact Brush off excess chemical and immediately flush contaminated areas with plenty of water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Ingestion Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell. If vomiting occurs, give water to further dilute the chemical.

Most important symptoms and effects

Symptoms Prolonged contact may cause painful stinging or burning of eyes and lids, watering of eye, and irritation. Prolonged contact may even cause severe skin irritation or mild burn. Inhalation may cause irritation, redness of upper and lower airways, coughing, laryngeospasm and edema, shortness of breath, bronchoconstriction, and possible pulmonary edema. Ingestion may cause irritation, swelling, and perforation of upper and lower gastrointestinal tissues. Permanent scarring may occur.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media that is appropriate to local circumstances.

Unsuitable Extinguishing Media: Not determined.

Specific Hazards Arising from the Chemical

Components of this product may decompose upon heating to produce corrosive and/or toxic fumes.

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. Move container from fire area if it can be done so without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Do not get in eyes, on skin, or on clothing. Avoid creation of dust. Avoid breathing dust. Do not eat, drink, or smoke in areas where this material is used. Wash thoroughly after handling. Wet material may pose a slipping hazard.

Environmental precautions Do not flush into surface water or sanitary sewer system. See Section 12 for additional ecological information.

Methods and material for containment and clean up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Clean up Shovel dry material into suitable container. Vacuum any remaining material into a suitable container. Liquid material may be removed with a vacuum truck. Wet material is slippery under foot.

7. HANDLING AND STORAGE

Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Use only in well ventilated areas. Do not breathe dust. Wash face, hands, and any exposed skin thoroughly after handling. Use personal protection recommended in Section 8.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.
Incompatible Materials Can generate heat when mixed with acids. When wet, flammable hydrogen gas may be produced from prolonged contact with alkali sensitive metals such as: aluminum, brass, bronze, copper, lead, tin, zinc.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---------------|-----------|----------|------------|
| - | - | - | - |

Appropriate engineering controls

Engineering Controls Apply technical measures to comply with the occupational exposure limits.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Wear approved safety goggles.

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Skin and Body Protection

Wear appropriate clothing to prevent repeated or prolonged skin contact.

Respiratory Protection

Ensure adequate ventilation, especially in confined areas. For limited exposure use a N95 dust mask.

General Hygiene Considerations

Do not eat, drink, or smoke when using this product. Wash contaminated clothing before reuse. Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIESAppearance**Physical State**

Solid

Odor

Odorless

Color

White to faintly colored

Odor Threshold

Not Determined

PropertyValuesRemarks - Method**pH**

12.7

1% solution

Melting Point/Freezing Point

1990 °F

Boiling Point/Boiling Range

Not determined

Flash Point

Not flammable

Evaporation Rate

Not determined

Flammability (Solid, Gas)

Not flammable

Upper Flammability Limits

Not flammable

Lower Flammability Limits

Not flammable

Vapor Pressure

Not determined

Vapor Density

Not determined

Specific Gravity

Not determined

Water Solubility

16% @ 20 °C

Solubility in other solvents

Not determined

Partition Coefficient

Not determined

Auto-ignition Temperature

Not determined

Decomposition Temperature

Not determined

Viscosity

Not determined

Explosive Properties

Not determined

Oxidizing Properties

Not determined

10. STABILITY AND REACTIVITY**Reactivity**

Not reactive under normal conditions.

Chemical Stability

Stable at normal temperatures and pressures.

Conditions to Avoid

None known.

Incompatible materials

Can generate heat when mixed with acids. When wet, flammable hydrogen gas may be produced from prolonged contact with alkali sensitive metals such as: aluminum, brass, bronze, copper, lead, tin, zinc.

Hazardous Decomposition Products

None known.

Hazardous Polymerization

Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicity Data

Product Toxicity Data: Sodium Metasilicate Anhydrous

| LD50 Oral: | LD50 Dermal: | LC50 Inhalation: |
|------------------|-------------------|-------------------|
| 1280 mg/kg (Rat) | No data available | No data available |

Standard Draize (Skin)

250 mg/24 hours skin-human severe; 250 mg/24 hours skin-rabbit severe;
250 mg/24 hours skin-guinea pig moderate

12. ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic toxicity

This material has exhibited moderate toxicity to aquatic organisms.

Fate and Transport

Biodegradation

This material is inorganic and not subject to biodegradation.

Persistence

This material is believed to persist in the environment.

Bioconcentration

This material is not expected to bioconcentrate in organisms.

Additional Ecological Information

This material has exhibited slight toxicity to terrestrial organisms.

13. DISPOSAL CONSIDERATIONS

Disposal Instructions

Dispose of in accordance with local, regional, national, and international regulations.

Hazardous Waste Code

Not available.

Waste from residues / unused products

Reuse or recycle if possible. Dispose of in accordance with local, regional, national, and international regulations.

Contaminated Packaging

Dispose of in accordance with local, regional, national, and international regulations. Container rinsate must be disposed of in compliance with applicable regulations.

14. TRANSPORT INFORMATION

Note

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT I.D. Number

UN3262

DOT Proper Shipping Name

Corrosive solid, basic, inorganic, n.o.s. (Sodium Metasilicate)

DOT Hazard Classes:

US DOT

8

Road (ADR)

8

Air (ICAO/IMDG)

8

Sea (IMO/IMDG)

8

Packing Group

II

DOT Label

8

15. REGULATORY INFORMATION

U.S. Federal Regulations

Contents of this SDS comply with OSHA Hazard Communication Standard CFR 1910.1200.

OSHA Hazard Communication Standard (29 CFR 1910.1200)

(X) Hazardous () Non- Hazardous

SARA TITLE III

Section 302/304

Section 311/312

Section 313

Extremely Hazardous Substances: None.

(40CFR370) Hazardous Categories: Acute.

Contains the following SARA 313 Toxic Release Chemicals: None.

CERCLA

CERCLA Regulatory

Based on the information supplied this product contains no substances regulated under CERCLA.

State Regulations

California Prop 65

This product may contain the following ingredient(s) known to the state of California to cause cancer, birth defects or other reproductive harm: None.

Inventories

| Component | TSCA (United States) | DSL (Canada) | EINECS/ELINCS (Europe) | ENCS (Japan) | China (IECSC) | KECL (Korea) | PICCS (Philippines) | AICS (Australia) |
|---------------------------------|-------------------------|-----------------|---------------------------|-----------------|------------------|-----------------|------------------------|---------------------|
| Sodium Metasilicate (6834-92-0) | X | X | | | | | | |

16. OTHER INFORMATION

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release 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 or in any process, unless specified in the text.

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