

## SAFETY DATA SHEET

Preparation Date: 06/17/2015

Revision Date: 06/17/2015

Revision Number: G1

**Product identifier**

**Product code:** SO169  
**Product Name:** SODIUM POLYPHOSPHATES, GLASSY, FCC

**Other means of identification**

**Synonyms:** Glassy sodium phosphate; Sodium Polyphosphates, glassy; Sodium polyphosphate; Sodium Polymetaphosphate; Natrium polyphosphat; Natrium polymetaphosphat; Graham's Salt; Sodium polyphosphates; Sodium Hexametaphosphate; Calgon; HMP; Metphosphoric Acid, sodium salt

**CAS #:** 68915-31-1  
**RTECS #** TR4950250  
**CI#:** Not available

**Recommended use of the chemical and restrictions on use**

**Recommended use:** In photography. dairy substitute in milk-based pudding. Dentistry; Retarder in alginate impression materials; drilling mud thinner in petroleum drilling fluids; Softening water without precipitate formation, as in dyeing, laundering, textile processing, and washing operations; corrosion inhibitor in de-icing salt preparations; frozen desserts; pretanning hides in the manufacture of leather; dispersing clays and pigments; threshold treatment for scale; and corrosion prevention.

**Uses advised against** No information available

**Supplier:** Spectrum Chemical Mfg. Corp  
14422 South San Pedro St.  
Gardena, CA 90248  
(310) 516-8000

**Order Online At:** <https://www.spectrumchemical.com>

**Emergency telephone number** Chemtrec 1-800-424-9300  
**Contact Person:** Martin LaBenz (West Coast)  
**Contact Person:** Ibad Tirmiz (East Coast)

### 2. HAZARDS IDENTIFICATION

**Classification**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

**Label elements**

Not classified

**Hazards not otherwise classified (HNOC)**

Not Applicable

**Other hazards**

Not available

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

| Components                          | CAS-No.    | Weight % | Trade Secret |
|-------------------------------------|------------|----------|--------------|
| Sodium Polyphosphates<br>68915-31-1 | 68915-31-1 | 100      | *            |

**4. FIRST AID MEASURES**

**First aid measures**

**General Advice:**

Poison information centers in each State capital city can provide additional assistance for scheduled poisons (13 1126).

**Skin Contact:**

Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention if irritation develops. Consult a physician if necessary.

**Eye Contact:**

Flush eye with water for 15 minutes. Get medical attention if irritation occurs. If symptoms persist, call a physician.

**Inhalation:**

Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Ingestion:**

Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary.

**Most important symptoms and effects, both acute and delayed**

**Symptoms**

May cause eye irritation. May cause skin irritation.

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician:**

Treat symptomatically

**Protection of first-aiders**

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste

**5. FIRE-FIGHTING MEASURES**

**Extinguishing Media**

**Suitable Extinguishing Media:**

The product is not flammable. If it is involved in a fire, extinguish the fire using an agent suitable for the type of surrounding fire.

**Unsuitable Extinguishing Media:**

No information available.

## Specific hazards arising from the chemical

### **Hazardous Combustion Products:**

Phosphorus oxides; Sodium oxides

### **Specific hazards:**

Nonflammable  
When heated to decomposition it emits highly toxic fumes of phosphorus oxides and sodium oxides  
Behavior in a fire: It may melt with loss of steam

## Special Protective Actions for Firefighters

### **Specific Methods:**

No information available.

### **Special Protective Equipment 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, protective equipment and emergency procedures

#### **Personal Precautions:**

Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Avoid breathing dust.

#### Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

### Methods and material for containment and cleaning up

#### **Methods for containment**

Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

#### **Methods for cleaning up**

Use appropriate tools to put the spilled solid in a suitable waste disposal container. Clean contaminated surface thoroughly.

## **7. HANDLING AND STORAGE**

### Precautions for safe handling

#### **Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials.

#### **Safe Handling Advice:**

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not breathe vapours/dust. Do not ingest. Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

#### **Technical Measures/Storage Conditions:**

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

#### **Incompatible Materials:**

Oxidizing agents.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### Control parameters

### **National occupational exposure limits**

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POLYPHOSPHATES, GLASSY, FCC

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### United States

| Components                          | OSHA | NIOSH | ACGIH | AIHA WHEEL |
|-------------------------------------|------|-------|-------|------------|
| Sodium Polyphosphates<br>68915-31-1 | None | None  | None  | None       |

### Canada

| Components                          | Alberta | British Columbia | Ontario | Quebec |
|-------------------------------------|---------|------------------|---------|--------|
| Sodium Polyphosphates<br>68915-31-1 | None    | None             | None    | None   |

### Australia and Mexico

| Components                          | Australia | Mexico |
|-------------------------------------|-----------|--------|
| Sodium Polyphosphates<br>68915-31-1 | None      | None   |

### Appropriate engineering controls

#### Engineering measures to reduce exposure:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

### Individual protection measures, such as personal protective equipment

#### Personal Protective Equipment

- Eye protection:** Goggles or Safety glasses with side-shields
- Skin and body protection:** Chemical resistant apron. Long sleeved clothing. Gloves.
- Respiratory protection:** Effective dust mask or Wear respirator with dust filter.
- Hygiene measures:** Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|  |  |  |
|--|--|--|
| <b>Physical state:</b><br>Solid.                               | <b>Appearance:</b><br>Granular. Powder.                              | <b>Color:</b><br>White.  |
| <b>Odor:</b><br>Odorless.                                      | <b>Taste</b><br>No information available                             | <b>Molecular/Formula weight:</b><br>(101.96)n  |
| <b>Formula:</b><br>(NaPO <sub>3</sub> ) <sub>n</sub>           | <b>Flammability:</b><br>Not flammable                                | <b>Flash point (°C):</b><br>No data available  |
| <b>Flashpoint (°C/°F):</b><br>No information available.        | <b>Flash Point Tested according to:</b><br>Not available             | <b>Lower Explosion Limit (%):</b><br>No information available  |
| <b>Upper Explosion Limit (%):</b><br>No information available  | <b>Autoignition Temperature (°C/°F):</b><br>No information available | <b>pH:</b><br>6-7.7 ( in 1% solution)  |
| <b>Melting point/range(°C/°F):</b><br>550-628°C/1022-1162°F    | <b>Boiling point/range(°C/°F):</b><br>1500°C/ 2732°F                 | <b>Decomposition temperature(°C/°F):</b><br>No information available   |
| <b>Bulk density:</b><br>0.8-1.5 g/ml                           | <b>Specific gravity:</b><br>No information available                 | <b>Vapor pressure @ 20°C (kPa):</b><br>No information available  |
| <b>Density (g/cm<sup>3</sup>):</b><br>No information available | <b>Evaporation rate:</b><br>No information available                 | <b>Vapor density:</b><br>No information available  |
| <b>VOC content (g/L):</b><br>No information available          | <b>Odor threshold (ppm):</b><br>No information available             | <b>Partition coefficient (n-octanol/water):</b><br>No information available  |
| <b>Viscosity:</b><br>No information available                  | <b>Miscibility:</b><br>No information available                      | <b>Solubility:</b><br>Soluble in cold water<br>Soluble in hot water<br>Soluble in water, but it dissolves slowly<br>Depolymerizes in aqueous solutions to form sodium trietaphosphate and sodium orthophosphates<br>Insoluble in most organic solvents |

## 10. STABILITY AND REACTIVITY

### Reactivity

Reactive with oxidizing agents  
Reactive with acids

### Chemical stability

**Stability:** Stable under recommended storage conditions.

**Possibility of Hazardous Reactions:** Hazardous polymerization does not occur

**Conditions to avoid:** Incompatible materials. Exposure to moisture.

**Incompatible Materials:** Oxidizing agents.

**Hazardous decomposition products:** Phosphorus oxides. Sodium oxides.

### Other Information

**Corrosivity:** No information available

**Special Remarks on Corrosivity:** No information available

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## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Principal Routes of Exposure:

Inhalation. Ingestion.

### Acute Toxicity

#### Component Information

*Sodium Polyphosphates - 68915-31-1*

**LD50/oral/rat** = 3053 mg/kg

**LD50/oral/mouse** = 7572 mg/kg

**LD50/dermal/rat** = No information available

**LD50/dermal/rabbit** = 7940 mg/kg

**LC50/inhalation/rat** = No information available

**LC50/inhalation/mouse** = No information available

**Other LD50 or LC50 information** = No information available

#### Product Information

**LD50/oral/rat** =

VALUE- Acute Tox Oral = 3053mg/kg

**LD50/oral/mouse** =

Value - Acute Tox Oral = 7572mg/kg

**LD50/dermal/rabbit**

VALUE-Acute Tox Dermal = 7940mg/kg

**LD50/dermal/rat**

VALUE -Acute Tox Dermal = No information available

**LC50/inhalation/rat**

VALUE-Vapor = No information available

VALUE-Gas = No information available

VALUE-Dust/Mist = No information available

**LC50/Inhalation/mouse**

VALUE-Vapor = No information available

VALUE - Gas = No information available

VALUE - Dust/Mist = No information available

### Symptoms

**Skin Contact:** May cause skin irritation.

**Eye Contact:** May cause eye irritation.

**Inhalation** May cause respiratory tract irritation. Symptoms may include coughing and shortness of breath.

**Ingestion**

Phosphates are slowly and incompletely absorbed when ingested, and seldom result in systemic effects. However, such effects have occurred. May cause gastrointestinal tract irritation with nausea, vomiting, diarrhea. May affect behavior/central nervous system/peripheral nervous system (somnolence, convulsions, lethargy, flaccid paralysis), urinary system (kidneys- renal failure, acute tubular necrosis). It may also cause heart disturbances (fall in blood pressure, slow pulse) and blood chemistry effects (reduction of serum level of calcium). The toxicity of phosphates is because of their ability to sequester calcium. Systemic metabolic acidosis may result as this material is believed to be hydrolyzed to ortho phosphates when ingested (before absorption). Tetany may also occur as a result of reduction in serum level of ionic calcium.

**Aspiration hazard** No information available

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

**Chronic Toxicity** No information available

**Sensitization:** No information available

**Mutagenic Effects:** No information available

**Carcinogenic effects:** Not considered carcinogenic

| Components            | ACGIH - Carcinogens | IARC       | NTP        | OSHA HCS - Carcinogens | Australia - Prohibited Carcinogenic Substances | Australia - Notifiable Carcinogenic Substances |
|-----------------------|---------------------|------------|------------|------------------------|--|--|
| Sodium Polyphosphates | Not listed          | Not listed | Not listed | Not listed             | Not listed                                     | Not listed                                     |

**Reproductive toxicity** No data is available

**Reproductive Effects:** No information available

**Developmental Effects:** No information available

**Teratogenic Effects:** No information available

**Specific Target Organ Toxicity**

**STOT - single exposure** No information available

**STOT - repeated exposure** No information available

**Target Organs:** No information available

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Ecotoxicity effects:** No data available.

**Persistence and degradability:** No information available

**Bioaccumulative potential:** No information available

**Mobility:** No information available

## 13. DISPOSAL CONSIDERATIONS

### Disposal Methods

**Waste from residues / unused products:**

Waste must be disposed of in accordance with Federal, State and Local regulation.

**Contaminated packaging:**

Empty containers should be taken for local recycling, recovery or waste disposal

| Components            | RCRA - F Series Wastes | RCRA - K Series Wastes | RCRA - P Series Wastes | RCRA - U Series Wastes |
|-----------------------|------------------------|------------------------|------------------------|------------------------|
| Sodium Polyphosphates | None                   | None                   | None                   | None                   |

## 14. TRANSPORT INFORMATION

**DOT**

**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** None  
**ERG No:** No information available  
**Marine Pollutant:** No data available  
**DOT RQ (lbs):** No information available

**TDG (Canada)**

**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** No information available  
**Description:** No information available

**ADR**

**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Packing Group:** No information available  
**Subsidiary Risk:** No information available  
**Classification Code:** No information available  
**Description:** No information available  
**CEFIC Tremcard No:** No information available

**IMO / IMDG**

**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** No information available  
**Description:** No information available  
**IMDG Page:** No information available  
**Marine Pollutant:** No information available  
**MFAG:** No information available



## 14. TRANSPORT INFORMATION

**Maximum Quantity:** No information available

### RID

**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** No information available  
**Classification Code:** No information available  
**Description:** No information available

### ICAO

**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** No information available  
**Description:** No information available

### IATA

**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** No information available  
**Description:** No information available

## 15. REGULATORY INFORMATION

### International Inventories

| Components            | U.S. TSCA  | KOREA KECL  | Philippines (PICCS) | Japan ENCS  | CHINA       | Australia (AICS) | EINECS-No.  |
|-----------------------|------------|-------------|---------------------|-------------|-------------|------------------|-------------|
| Sodium Polyphosphates | Not Listed | Not present | Not present         | Not present | Not present | Not present      | Not present |

### U.S. Regulations

#### California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

##### Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

##### Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

| Components            | Carcinogen | Developmental Toxicity | Male Reproductive Toxicity | Female Reproductive Toxicity: |
|-----------------------|------------|------------------------|----------------------------|-------------------------------|
| Sodium Polyphosphates | Not Listed | Not Listed             | Not Listed                 | Not Listed                    |

### CERCLA/SARA

| Components            | CERCLA - Hazardous Substances and their Reportable Quantities | Section 302 Extremely Hazardous Substances and TPQs | Section 302 Extremely Hazardous Substances and RQs | Section 313 - Chemical Category | Section 313 - Reporting <i>de minimis</i> |
|-----------------------|---|---|--|---------------------------------|---|
| Sodium Polyphosphates | None  | None  | None   | None                            | None                                      |

**U.S. TSCA**

| Components            | TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS) | TSCA 8(d) -Health and Safety Reporting |
|-----------------------|---|--|
| Sodium Polyphosphates | Not Applicable  | Not Applicable                         |

**Canada****WHMIS hazard class:**

Non-controlled

**Canada Controlled Products Regulation:**

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

**Inventory**

| Components            | Canada (DSL) | Canada (NDSL) |
|-----------------------|--------------|---------------|
| Sodium Polyphosphates | Not Listed   | Not Listed    |

| Components            | CEPA Schedule I - Toxic Substances | CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting |
|-----------------------|------------------------------------|---|
| Sodium Polyphosphates | Not listed                         | Not listed  |

**EU Classification****R-phrase(s)**

not determined (not applicable)

**S -phrase(s)**

none

| Components            | Classification | Concentration Limits: | Safety Phrases |
|-----------------------|----------------|-----------------------|----------------|
| Sodium Polyphosphates |                | No information        |                |

The product is classified in accordance with Annex VI to Directive 67/548/EEC

**Indication of danger:**

None.

## 16. OTHER INFORMATION

**Preparation Date:** 06/17/2015  
**Revision Date:** 06/17/2015  
**Prepared by:** Sonia Owen

**Disclaimer:** All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

**End of Safety Data Sheet**