



# Sodium Nitrite, Granular Super Free-Flowing Technical Grade

## Safety Data Sheet

According to U.S. Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations and according to Canada's Hazardous Products Regulation, February 11, 2015.

Revision Date: 03/15/2018

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Version: 1.0

### SECTION 1: IDENTIFICATION

#### Product Identifier

**Product Form:** Mixture

**Product Name:** Sodium Nitrite, Granular Super Free-Flowing Technical Grade

#### Intended Use of the Product

Chemical and dye source of nitrous acid. Corrosion inhibitor in antifreeze, paints, oil tanks and pipelines. Oxidizing agent and depolarizer in detinning. Phosphate coatings. Gold plating baths. Heat transfer salt. Polymer inhibitor for synthetic rubber. Nitrous acid source for accelerators, retarders and antioxidants / antiozonants. Foam rubber blowing agent. Wastewater treatment odor control and bacteria activity inhibitor.

#### Name, Address, and Telephone of the Responsible Party

##### **Manufacturer**

CHEMTRADE LOGISTICS INC.

155 Gordon Baker Road

Suite 300

Toronto, Ontario M2H 3N5

For SDS Info: (416) 496-5856

[www.chemtradelogistics.com](http://www.chemtradelogistics.com)

#### Emergency Telephone Number

**Emergency Number :**

Canada: CANUTEC +1-613-996-6666 / US: CHEMTREC +1-800-424-9300

INTERNATIONAL: +1-703-741-5970

Chemtrade Emergency Contact: (866) 416-4404

For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident, call CHEMTREC – Day or Night

### SECTION 2: HAZARDS IDENTIFICATION

#### Classification of the Substance or Mixture

##### **GHS Classification**

Ox. Sol. 2 H272

Acute Tox. 3 (Oral) H301

Eye Irrit. 2A H319

Aquatic Acute 1 H400

Full text of hazard classes and H-statements : see section 16

#### Label Elements

##### **GHS Labeling**

##### **Hazard Pictograms**



##### **Signal Word**

: Danger

##### **Hazard Statements**

: H272 - May intensify fire; oxidizer.

H301 - Toxic if swallowed.

H319 - Causes serious eye irritation.

H400 - Very toxic to aquatic life.

##### **Precautionary Statements**

: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P220 - Keep away from clothing and other combustible materials.

P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P273 - Avoid release to the environment.

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P280 - Wear protective gloves, protective clothing, and eye protection.  
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P321 - Specific treatment (see section 4 on this SDS).  
P330 - Rinse mouth.  
P337+P313 - If eye irritation persists: Get medical advice/attention.  
P370+P378 - In case of fire: Use appropriate media (see section 5) to extinguish.  
P391 - Collect spillage.  
P405 - Store locked up.  
P501 - Dispose of contents/container in accordance with local, regional, national, provincial, territorial and international regulations.

### Other Hazards

Ingestion may cause methemoglobinemia. Initial manifestation of methemoglobinemia is cyanosis, characterized by navy lips, tongue and mucous membranes, with skin color being slate grey. Further manifestation is characterized by headache, weakness, dyspnea, dizziness, stupor, respiratory distress and death due to anoxia. If ingested, nitrates may be reduced to nitrites by bacteria in the digestive tract. Signs and symptoms of nitrite poisoning include methemoglobinemia, nausea, dizziness, increased heart rate, hypotension, fainting and, possibly shock. Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

### Unknown acute toxicity

No data available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### Mixture

| Name                                    | Product Identifier   | %*         | GHS Ingredient Classification   |
|---|----------------------|------------|---|
| Sodium nitrite                          | (CAS No) 7632-00-0   | > 98.5     | Ox. Sol. 2, H272<br>Acute Tox. 3 (Oral), H301<br>Eye Irrit. 2A, H319<br>Aquatic Acute 1, H400 |
| Sodium nitrate                          | (CAS No) 7631-99-4   | < 0.8      | Ox. Sol. 3, H272<br>Eye Irrit. 2A, H319   |
| Silica, amorphous, precipitated and gel | (CAS No) 112926-00-8 | 0.05 - 1.0 | Comb. Dust  |
| Water                                   | (CAS No) 7732-18-5   | < 0.3      | Not classified  |
| Disodium carbonate                      | (CAS No) 497-19-8    | < 0.2      | Eye Irrit. 2A, H319   |

Full text of H-phrases: see section 16.

\*Percentages are listed in weight by weight percentage (w/w%) for liquid and solid ingredients. Gas ingredients are listed in volume by volume percentage (v/v%).

## SECTION 4: FIRST AID MEASURES

### Description of First-aid Measures

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**Inhalation:** When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

**Skin Contact:** IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes. Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Get medical advice/attention.

**Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

**Ingestion:** Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor.

### Most Important Symptoms and Effects Both Acute and Delayed

**General:** Causes serious eye irritation. Toxic if swallowed.

**Inhalation:** Prolonged exposure may cause irritation.

**Skin Contact:** Prolonged exposure may cause skin irritation.

**Eye Contact:** Contact causes severe irritation with redness and swelling of the conjunctiva.

# Sodium Nitrite, Granular Super Free-Flowing Technical Grade

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According to U.S. Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations and according to Canada's Hazardous Products Regulation, February 11, 2015.

**Ingestion:** This material is toxic in small amounts orally, and can cause adverse health effects or death.

**Chronic Symptoms:** None expected under normal conditions of use.

### **Indication of Any Immediate Medical Attention and Special Treatment Needed**

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

Causes methemoglobinemia – emergency response should treat appropriately, such as by intravenous administration of methylene blue.

## **SECTION 5: FIRE-FIGHTING MEASURES**

### **Extinguishing Media**

**Suitable Extinguishing Media:** Water spray, dry chemical, foam, carbon dioxide.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

### **Special Hazards Arising From the Substance or Mixture**

**Fire Hazard:** May cause fire or explosion; strong oxidizer.

**Explosion Hazard:** Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

**Reactivity:** Oxidizer: increases the burning rate of combustible materials.

### **Advice for Firefighters**

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire. Under fire conditions, hazardous fumes will be present.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Nitrogen monoxide, nitrogen dioxide and disodium oxide.

**Other Information:** Do not allow run-off from fire fighting to enter drains or water courses.

### **Reference to Other Sections**

Refer to Section 9 for flammability properties.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### **Personal Precautions, Protective Equipment and Emergency Procedures**

**General Measures:** Avoid breathing dust. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Keep away from combustible material. Avoid all contact with skin, eyes, or clothing.

#### **For Non-Emergency Personnel**

**Protective Equipment:** Use appropriate personal protective equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

#### **For Emergency Personnel**

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

### **Environmental Precautions**

Prevent entry to sewers and public waters. Avoid release to the environment. Collect spillage.

### **Methods and Materials for Containment and Cleaning Up**

**For Containment:** Contain solid spills with appropriate barriers and prevent migration and entry into sewers or streams. Use only non-sparking tools.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Recover the product by vacuuming, shoveling or sweeping. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill. Do not take up in combustible material such as: saw dust or cellulosic material.

### **Reference to Other Sections**

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

## **SECTION 7: HANDLING AND STORAGE**

### **Precautions for Safe Handling**

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Keep away from heat, sparks, open flames, hot surfaces, combustible materials, incompatible materials. - No smoking. Handle empty containers with care because they may still present a hazard. Do not get in eyes, on skin, or on clothing. Do not breathe dust.

# Sodium Nitrite, Granular Super Free-Flowing Technical Grade

## Safety Data Sheet

According to U.S. Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations and according to Canada's Hazardous Products Regulation, February 11, 2015.

**Additional Hazards When Processed:** May cause or intensify fire; oxidizer.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures.

### Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Comply with applicable regulations. Proper grounding procedures to avoid static electricity should be followed.

**Storage Conditions:** Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Keep in fireproof place. Store locked up.

**Incompatible Materials:** Reducing agents, oxidizable substances, ammonium salts, amines, amine compounds, acids.

### Specific End Use(s)

Chemical and dye source of nitrous acid. Corrosion inhibitor in antifreeze, paints, oil tanks and pipelines. Oxidizing agent and depolarizer in detinning. Phosphate coatings. Gold plating baths. Heat transfer salt. Polymer inhibitor for synthetic rubber. Nitrous acid source for accelerators, retarders and antioxidants / antiozonants. Foam rubber blowing agent. Wastewater treatment odor control and bacteria activity inhibitor.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

| Silica, amorphous, precipitated and gel (112926-00-8) |                               |   |
|---|-------------------------------|---|
| Mexico  | OEL TWA (mg/m <sup>3</sup> )  | 10 mg/m <sup>3</sup>  |
| British Columbia                                      | OEL TWA (mg/m <sup>3</sup> )  | 4 mg/m <sup>3</sup> (total dust)<br>1.5 mg/m <sup>3</sup> (respirable dust)             |
| New Brunswick   | OEL TWA (mg/m <sup>3</sup> )  | 10 mg/m <sup>3</sup>  |
| Nunavut   | OEL STEL (mg/m <sup>3</sup> ) | 20 mg/m <sup>3</sup>  |
| Nunavut   | OEL TWA (mg/m <sup>3</sup> )  | 10 mg/m <sup>3</sup>  |
| Northwest Territories                                 | OEL STEL (mg/m <sup>3</sup> ) | 20 mg/m <sup>3</sup>  |
| Northwest Territories                                 | OEL TWA (mg/m <sup>3</sup> )  | 10 mg/m <sup>3</sup>  |
| Québec  | VEMP (mg/m <sup>3</sup> )     | 6 mg/m <sup>3</sup> (containing no Asbestos and <1% Crystalline silica-respirable dust) |
| Saskatchewan  | OEL STEL (mg/m <sup>3</sup> ) | 20 mg/m <sup>3</sup>  |
| Saskatchewan  | OEL TWA (mg/m <sup>3</sup> )  | 10 mg/m <sup>3</sup>  |

### Exposure Controls

**Appropriate Engineering Controls:** Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. Gas detectors should be used when flammable gases or vapors may be released. Proper grounding procedures to avoid static electricity should be followed.

**Personal Protective Equipment:** Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection.



**Materials for Protective Clothing:** Chemically resistant materials and fabrics. Wear fire/flame resistant/retardant clothing.

**Hand Protection:** Wear protective gloves.

**Eye Protection:** Chemical safety goggles.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

**Other Information:** When using, do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on Basic Physical and Chemical Properties

**Physical State** : Solid

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|   |                      |
|---|----------------------|
| <b>Appearance</b>                             | : Pale straw-colored |
| <b>Odor</b>                                   | : Odorless           |
| <b>Odor Threshold</b>                         | : Not available      |
| <b>pH</b>                                     | : Not available      |
| <b>Evaporation Rate</b>                       | : Not available      |
| <b>Melting Point</b>                          | : 273 °C (523 °F)    |
| <b>Freezing Point</b>                         | : Not available      |
| <b>Boiling Point</b>                          | : Not available      |
| <b>Flash Point</b>                            | : Not available      |
| <b>Auto-ignition Temperature</b>              | : Not available      |
| <b>Decomposition Temperature</b>              | : Not available      |
| <b>Flammability (solid, gas)</b>              | : Not available      |
| <b>Lower Flammable Limit</b>                  | : Not available      |
| <b>Upper Flammable Limit</b>                  | : Not available      |
| <b>Vapor Pressure</b>                         | : Not available      |
| <b>Relative Vapor Density at 20°C</b>         | : Not available      |
| <b>Relative Density</b>                       | : Not available      |
| <b>Specific Gravity</b>                       | : 2.168              |
| <b>Solubility</b>                             | : Not available      |
| <b>Partition Coefficient: N-Octanol/Water</b> | : Not available      |
| <b>Viscosity</b>                              | : Not available      |

## SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** Oxidizer: increases the burning rate of combustible materials.

**Chemical Stability:** May cause fire or explosion; strong oxidizer.

**Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

**Conditions to Avoid:** Direct sunlight, extremely high or low temperatures, ignition sources, combustible materials, incompatible materials.

**Incompatible Materials:** Reducing agents, oxidizable substances, ammonium salts, amines, amine compounds, acids.

**Hazardous Decomposition Products:** Thermal decomposition: >320 °C (>608 °F): nitrogen monoxide, nitrogen dioxide and disodium oxide.

## SECTION 11: TOXICOLOGICAL INFORMATION

### Information on Toxicological Effects - Product

**Acute Toxicity (Oral):** Oral: Toxic if swallowed.

**Acute Toxicity (Dermal):** Not classified

**Acute Toxicity (Inhalation):** Not classified

### LD50 and LC50 Data:

| Sodium Nitrite, Granular Super Free-Flowing Technical Grade |                         |
|---|-------------------------|
| ATE (Oral)  | 86.29 mg/kg body weight |

**Skin Corrosion/Irritation:** Not classified

**Eye Damage/Irritation:** Causes serious eye irritation.

**Respiratory or Skin Sensitization:** Not classified

**Germ Cell Mutagenicity:** Not classified

**Carcinogenicity:** Not classified

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified

**Reproductive Toxicity:** Not classified

**Specific Target Organ Toxicity (Single Exposure):** Not classified

**Aspiration Hazard:** Not classified

**Symptoms/Effects After Inhalation:** Prolonged exposure may cause irritation.

**Symptoms/Effects After Skin Contact:** Prolonged exposure may cause skin irritation.

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**Symptoms/Effects After Eye Contact:** Contact causes severe irritation with redness and swelling of the conjunctiva.

**Symptoms/Effects After Ingestion:** This material is toxic in small amounts orally, and can cause adverse health effects or death.

**Chronic Symptoms:** None expected under normal conditions of use.

### Information on Toxicological Effects - Ingredient(s)

#### LD50 and LC50 Data:

|  |   |
|--|---|
| <b>Sodium nitrite (7632-00-0)</b>                            |   |
| LD50 Oral Rat  | 85 mg/kg                                    |
| LC50 Inhalation Rat  | 5.5 mg/l/4h                                 |
| <b>Sodium nitrate (7631-99-4)</b>                            |   |
| LD50 Oral Rat  | > 2000 mg/kg                                |
| <b>Disodium carbonate (497-19-8)</b>                         |   |
| LD50 Oral Rat  | 4090 mg/kg                                  |
| LC50 Inhalation Rat  | 2300 mg/m <sup>3</sup> (Exposure time: 2 h) |
| <b>Silica, amorphous, precipitated and gel (112926-00-8)</b> |   |
| IARC Group   | 3   |

## SECTION 12: ECOLOGICAL INFORMATION

### Toxicity

**Ecology - General:** Very toxic to aquatic life.

|                                      |   |
|--------------------------------------|---|
| <b>Sodium nitrite (7632-00-0)</b>    |   |
| LC50 Fish 1                          | 0.19 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])         |
| LC50 Fish 2                          | 0.092 - 0.13 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through]) |
| <b>Sodium nitrate (7631-99-4)</b>    |   |
| LC50 Fish 1                          | 2000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])               |
| LC50 Fish 2                          | 994.4 - 1107 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])       |
| <b>Disodium carbonate (497-19-8)</b> |   |
| LC50 Fish 1                          | 300 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])                |
| EC50 Daphnia 1                       | 265 mg/l (Exposure time: 48 h - Species: Daphnia magna)                               |
| LC50 Fish 2                          | 310 - 1220 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])         |

### Persistence and Degradability

|  |                                 |
|--|---------------------------------|
| <b>Sodium Nitrite, Granular Super Free-Flowing Technical Grade</b> |                                 |
| Persistence and Degradability                                      | Not established.                |
| <b>Sodium nitrate (7631-99-4)</b>                                  |                                 |
| Persistence and Degradability                                      | Readily biodegradable in water. |

### Bioaccumulative Potential

|  |                                |
|--|--------------------------------|
| <b>Sodium Nitrite, Granular Super Free-Flowing Technical Grade</b> |                                |
| Bioaccumulative Potential  | Not established.               |
| <b>Sodium nitrite (7632-00-0)</b>                                  |                                |
| Log Pow  | -3.7 (at 25 °C)                |
| <b>Sodium nitrate (7631-99-4)</b>                                  |                                |
| Log Pow  | -3.8 (at 25 °C)                |
| Bioaccumulative Potential  | Not expected to bioaccumulate. |
| <b>Disodium carbonate (497-19-8)</b>                               |                                |
| BCF Fish 1   | (no bioaccumulation)           |

### Mobility in Soil

Not available

### Other Adverse Effects

**Other Information:** Avoid release to the environment.

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### SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

**Additional Information:** Container may remain hazardous when empty. Continue to observe all precautions.





**Ecology - Waste Materials:** Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

### SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

\*When shipped in accordance with US DOT 49 CFR part 171.4(c) and other appropriate sections/provisions this material is not designated as a marine pollutant when transported by road or rail.

\*\*When shipped in accordance with the Canada Transport of Dangerous Goods Regulations part 1.45.1 and other appropriate sections/provisions this material is not designated as a marine pollutant when transported by road or rail.

| TRANSPORTATION CLASSIFICATION | DOT   | TDG   | IMDG  | IATA   |
|-------------------------------|---|---|---|--|
| Identification Number         | UN1500  | UN1500  | UN1500  | UN1500   |
| Proper Shipping Name          | SODIUM NITRITE MIXTURE  | SODIUM NITRITE MIXTURE  | SODIUM NITRITE MIXTURE  | SODIUM NITRITE MIXTURE   |
| Transport Hazard Class(es)    | 5.1 (6.1)   | 5.1 (6.1)   | 5.1 (6.1)   | 5.1 (6.1)  |
|                               |  |  |  |  |
| Packing Group                 | III   | III   | III   | III  |
| Environmental Hazards         | Marine Pollutant : Yes*   | Marine Pollutant : Yes**  | Marine Pollutant : Yes  | Marine Pollutant: N/A  |
| Emergency Response            | ERG Number : 140  | ERAP Index: Not applicable  | EMS: F-A, S-Q   | ERG code (IATA): 5P  |
| Additional Information        | Not applicable  | Not applicable  | Not applicable  | Not applicable   |

### SECTION 15: REGULATORY INFORMATION

#### US Federal Regulations

| Chemical Name (CAS No.)                               | CERCLA RQ      | EPCRA 304 RQ   | SARA 302 TPQ   | SARA 313 |
|---|----------------|----------------|----------------|----------|
| Sodium nitrite (7632-00-0)                            | 100 lb         | Not applicable | Not applicable | Yes      |
| Sodium nitrate (7631-99-4)                            | Not applicable | Not applicable | Not applicable | No       |
| Disodium carbonate (497-19-8)                         | Not applicable | Not applicable | Not applicable | No       |
| Silica, amorphous, precipitated and gel (112926-00-8) | Not applicable | Not applicable | Not applicable | No       |

#### SARA 311/312

|  |
|--|
| <b>Sodium Nitrite, Granular Super Free-Flowing Technical Grade</b> |
| Fire hazard. Immediate (acute) health hazard.                      |

#### US TSCA Flags

| Chemical Name (CAS No.)    | US TSCA Flags/ Other Information   |
|----------------------------|--|
| Sodium nitrite (7632-00-0) | S - S - indicates a substance that is identified in a proposed or final Significant New Uses Rule. |

#### US State Regulations

##### California Proposition 65

| Chemical Name (CAS No.) | Carcinogenicity | Developmental Toxicity | Female Reproductive Toxicity | Male Reproductive Toxicity |
|-------------------------|-----------------|------------------------|------------------------------|----------------------------|
|                         |                 |                        |                              |                            |

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|   |    |    |    |    |
|---|----|----|----|----|
| Sodium nitrite (7632-00-0)                            | No | No | No | No |
| Sodium nitrate (7631-99-4)                            | No | No | No | No |
| Disodium carbonate (497-19-8)                         | No | No | No | No |
| Silica, amorphous, precipitated and gel (112926-00-8) | No | No | No | No |

### State Right-To-Know Lists

#### Sodium nitrite (7632-00-0)

U.S. - Massachusetts - Right To Know List - Yes  
 U.S. - New Jersey - Right to Know Hazardous Substance List - Yes  
 U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List - Yes  
 U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances - No  
 U.S. - Pennsylvania - RTK (Right to Know) List - Yes

#### Sodium nitrate (7631-99-4)

U.S. - Massachusetts - Right To Know List - Yes  
 U.S. - New Jersey - Right to Know Hazardous Substance List - No  
 U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List - No  
 U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances - No  
 U.S. - Pennsylvania - RTK (Right to Know) List - Yes

#### Disodium carbonate (497-19-8)

U.S. - Massachusetts - Right To Know List - No  
 U.S. - New Jersey - Right to Know Hazardous Substance List - No  
 U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List - No  
 U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances - No  
 U.S. - Pennsylvania - RTK (Right to Know) List - No

#### Silica, amorphous, precipitated and gel (112926-00-8)

U.S. - Massachusetts - Right To Know List - Yes  
 U.S. - New Jersey - Right to Know Hazardous Substance List - Yes  
 U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List - No  
 U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances - No  
 U.S. - Pennsylvania - RTK (Right to Know) List - Yes

### Canadian Regulations

#### Sodium nitrite (7632-00-0)

Listed on the Canadian DSL (Domestic Substances List)  
 Not listed on the Canadian NDSL (Non-Domestic Substances List)

#### Sodium nitrate (7631-99-4)

Listed on the Canadian DSL (Domestic Substances List)  
 Not listed on the Canadian NDSL (Non-Domestic Substances List)

#### Disodium carbonate (497-19-8)

Listed on the Canadian DSL (Domestic Substances List)  
 Not listed on the Canadian NDSL (Non-Domestic Substances List)

#### Silica, amorphous, precipitated and gel (112926-00-8)

Listed on the Canadian DSL (Domestic Substances List)  
 Not listed on the Canadian NDSL (Non-Domestic Substances List)

### International Inventories/Lists

| Chemical Name (CAS No.)       | Australia<br>AICS | Turkey<br>CICR | Korea<br>ECL | EU<br>EINECS | EU<br>ELINCS | EU<br>SVHC | EU<br>NLP | Mexico<br>INSQ |
|-------------------------------|-------------------|----------------|--------------|--------------|--------------|------------|-----------|----------------|
| Sodium nitrite (7632-00-0)    | Yes               | Yes            | Yes          | Yes          | No           | No         | No        | Yes            |
| Sodium nitrate (7631-99-4)    | Yes               | Yes            | Yes          | Yes          | No           | No         | No        | Yes            |
| Disodium carbonate (497-19-8) | Yes               | Yes            | Yes          | Yes          | No           | No         | No        | Yes            |



# Sodium Nitrite, Granular Super Free-Flowing Technical Grade

## Safety Data Sheet

According to U.S. Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations and according to Canada's Hazardous Products Regulation, February 11, 2015.

|   |                    |                   |                   |                    |                   |                          |                          |  |
|---|--------------------|-------------------|-------------------|--------------------|-------------------|--------------------------|--------------------------|--|
| Silica, amorphous, precipitated and gel (112926-00-8) | Yes                | Yes               | Yes               | No                 | No                | No                       | No                       | Yes  |
| <b>Chemical Name (CAS No.)</b>                        | <b>China IECSC</b> | <b>Japan ENCS</b> | <b>Japan ISHL</b> | <b>Japan PDSCL</b> | <b>Japan PRTR</b> | <b>Philippines PICCS</b> | <b>New Zealand NZIOC</b> | <b>US TSCA</b>   |
| Sodium nitrite (7632-00-0)                            | Yes                | Yes               | Yes               | Yes                | No                | Yes                      | Yes                      | Yes  |
| Sodium nitrate (7631-99-4)                            | Yes                | Yes               | Yes               | No                 | No                | Yes                      | Yes                      | Yes  |
| Disodium carbonate (497-19-8)                         | Yes                | Yes               | Yes               | No                 | No                | Yes                      | Yes                      | Yes  |
| Silica, amorphous, precipitated and gel (112926-00-8) | Yes                | Yes               | Yes               | No                 | No                | Yes                      | Yes                      | Yes<br>Listed as<br>(CAS #<br>7631-86-<br>9) on U.S.<br>TSCA<br>registry |

### SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Date of Preparation or Latest Revision** : 03/15/2018

#### Revision Summary

| Section | Change       | Date Changed |
|---------|--------------|--------------|
| All     | New document | 03/15/2018   |

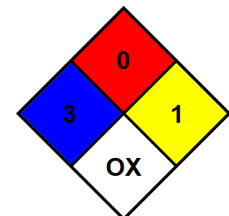
**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Hazardous Products Regulations (HPR) SOR/2015-17.

#### GHS Full Text Phrases:

|                     |  |
|---------------------|--|
| Acute Tox. 3 (Oral) | Acute toxicity (oral) Category 3                               |
| Aquatic Acute 1     | Hazardous to the aquatic environment - Acute Hazard Category 1 |
| Comb. Dust          | Combustible Dust   |
| Eye Irrit. 2A       | Serious eye damage/eye irritation Category 2A                  |
| Ox. Sol. 2          | Oxidizing solids Category 2                                    |
| Ox. Sol. 3          | Oxidizing solids Category 3                                    |
| H272                | May intensify fire; oxidizer                                   |
| H301                | Toxic if swallowed   |
| H319                | Causes serious eye irritation                                  |
| H400                | Very toxic to aquatic life                                     |

#### NFPA 704

- NFPA Health Hazard** : 3 - Materials that, under emergency conditions, can cause serious or permanent injury.
- NFPA Fire Hazard** : 0 - Materials that will not burn under typical dire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
- NFPA Reactivity Hazard** : 1 - Materials that in themselves are normally stable but can become unstable at elevated temperatures and pressures.
- NFPA Specific Hazards** : OX - Materials that possess oxidizing properties.



#### HMIS Rating

- Health** : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
- Flammability** : 0 Minimal Hazard
- Physical** : 1 Slight Hazard
- PPE** : See Section 8

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## Safety Data Sheet

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### Abbreviations and Acronyms

|   |   |
|---|---|
| AICS – Australian Inventory of Chemical Substances  | LC50 - Median Lethal Concentration  |
| ACGIH – American Conference of Governmental Industrial Hygienists   | LD50 - Median Lethal Dose   |
| AIHA – American Industrial Hygiene Association  | LOAEL - Lowest Observed Adverse Effect Level  |
| ATE - Acute Toxicity Estimate   | LOEC - Lowest-observed-effect Concentration   |
| BCF - Bioconcentration factor   | Log Pow - Octanol/water Partition Coefficient   |
| BEI - Biological Exposure Indices (BEI)   | NFPA 704 – National Fire Protection Association - Standard System for the Identification of the Hazards of Materials for Emergency Response |
| CAS No. - Chemical Abstracts Service number   | NIOSH - National Institute for Occupational Safety and Health   |
| CERCLA RQ - Comprehensive Environmental Response, Compensation, and Liability Act - Reportable Quantity                         | NLP - Europe No Longer Polymers List  |
| CICR - Turkish Inventory and Control of Chemicals   | NOAEL - No-Observed Adverse Effect Level  |
| DOT – 49 CFR – US Department of Transportation – Code of Federal Regulations Title 49 – Transportation.                         | NOEC - No-Observed Effect Concentration   |
| EC50 - Median effective concentration   | NZIOC - New Zealand Inventory of Chemicals  |
| ECL - Korea Existing Chemicals List   | OEL - Occupational Exposure Limits  |
| EINECS - European Inventory of Existing Commercial Chemical Substances  | OSHA – Occupational Safety and Health Administration  |
| ELINCS - European List of Notified Chemical Substances  | PEL - Permissible Exposure Limits   |
| EmS - IMDG Emergency Schedule Fire & Spillage   | PICCS - Philippine Inventory of Chemicals and Chemical Substances   |
| ENCS - Japanese Existing and New Chemical Substances Inventory  | PDSCL - Japan Poisonous and Deleterious Substances Control Law  |
| EPA – Environmental Protection Agency   | PPE – Personal Protective Equipment   |
| EPCRA 304 RQ – EPCRA 304 Extremely Hazardous Substance Emergency Planning and Community Right-to-Know-Act – Reportable Quantity | PRTR - Japan Pollutant Release and Transfer Register  |
| ERAP Index – Emergency Response Assistance Plan Quantity Limit  | REL - Recommended Exposure Limit  |
| ErC50 - EC50 in Terms of Reduction Growth Rate  | SADT - Self Accelerating Decomposition Temperature  |
| ERG code (IATA) - Emergency Response Drill Code as found in the International Civil Aviation Organization (ICAO)                | SARA - Superfund Amendments and Reauthorization Act   |
| ERG No. - Emergency Response Guide Number   | SARA 302 - Section 302, 40 CFR Part 355   |
| HCCL - Hazard Communication Carcinogen List   | SARA 311/312 - Sections 311 and 312, 40 CFR Part 370 Hazard Categories  |
| HMIS – Hazardous Materials Information System   | SARA 313 - Section 313, 40 CFR Part 372   |
| IARC - International Agency for Research on Cancer  | SRCL - Specifically Regulated Carcinogen List   |
| IATA - International Air Transport Association – Dangerous Goods Regulations  | STEL - Short Term Exposure Limit  |
| IDLH - Immediately Dangerous to Life or Health  | SVHC – European Candidate List of Substance of Very High Concern  |
| IECSC - Inventory of Existing Chemical Substances Produced or Imported in China   | TDG – Transport Canada Transport of Dangerous Goods Regulations   |
| IMDG - International Maritime Dangerous Goods Code  | TLM - Median Tolerance Limit  |
| INSQ - Mexican National Inventory of Chemical Substances  | TLV - Threshold Limit Value   |
| ISHL - Japan Industrial Safety and Health Law   | TPQ - Threshold Planning Quantity   |
|   | TSCA – United States Toxic Substances Control Act   |
|   | TWA - Time Weighted Average   |
|   | WEEL - Workplace Environmental Exposure Levels  |

*Handle product with due care and avoid unnecessary contact. This information is supplied under U.S. OSHA'S "Right to Know" (29 CFR 1910.1200) and Canada's WHMIS regulations. Although certain hazards are described herein, we cannot guarantee these are the only hazards that exist. The information contained herein is based on data available to us and is believed to be true and accurate but it is not offered as a product specification. No warranty, expressed or implied, regarding the accuracy of this data, the hazards connected with the use of the product, or the results to be obtained from the use thereof, is made and Chemtrade and its affiliates assume no responsibility. Chemtrade is a member of the CIAC (Chemistry Industry Association of Canada) and adheres to the codes and principles of Responsible Care™.*



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