Sodium Nitrite, High Purity Grades and ACS

Safety Data Sheet


Revision Date: 09/24/2018       Date of Issue: 05/05/2015       Version: 4.0

SECTION 1: IDENTIFICATION

Product Identifier

Product Form: Mixture

Product Name: Sodium Nitrite, High Purity Grades and ACS

Synonyms: Sodium Nitrite, High Purity Grades and ACS, Sodium Nitrate, High Purity Flake; Sodium Nitrate, High Purity Granular; Sodium Nitrate, High Purity Special

Intended Use of the Product


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

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

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.
P280 - Wear protective gloves, protective clothing, and eye protection.
P301+P330 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove
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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, territorial, provincial, and international regulations.

Other Hazards
Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. Exposure of nitrites via ingestion that result in endogenous nitrosation are classified by IARC as a Group 2A - probable human carcinogen. This product is not anticipated to be available for oral exposure which would result in endogenous nitrosation under normal conditions of use or foreseeable emergencies, and is therefore not classified as a carcinogen. 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. Signs and symptoms of nitrite poisoning include methemoglobinemia, nausea, dizziness, increased heart rate, hypotension, fainting and, possibly shock.

Unknown acute toxicity
No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Mixture</th>
<th>Product Identifier</th>
<th>%*</th>
<th>GHS Ingredient Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium nitrite</td>
<td>(CAS-No.) 7632-00-0</td>
<td>&gt; 99.0</td>
<td>Ox. Sol. 2, H272, Acute Tox. 3 (Oral), H301, Eye Irrit. 2A, H319, Aquatic Acute 1, H400</td>
</tr>
<tr>
<td>Sodium nitrate</td>
<td>(CAS-No.) 7631-99-4</td>
<td>&lt; 0.5</td>
<td>Ox. Sol. 3, H272, Eye Irrit. 2A, H319</td>
</tr>
<tr>
<td>Water</td>
<td>(CAS-No.) 7732-18-5</td>
<td>&lt; 0.3</td>
<td>Not classified</td>
</tr>
<tr>
<td>Disodium carbonate</td>
<td>(CAS-No.) 497-19-8</td>
<td>&lt; 0.2</td>
<td>Eye Irrit. 2A, H319</td>
</tr>
</tbody>
</table>

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: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Get medical advice/attention. Wash contaminated clothing before reuse.
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. Respirable dust may be absorbed through the bloodstream and have adverse effects.
Skin Contact: Prolonged exposure may cause skin irritation.
Eye Contact: Causes serious eye irritation. Contact causes severe irritation with redness and swelling of the conjunctiva.
Ingestion: This material is toxic in small amounts orally, and can cause adverse health effects or death. 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.

Chronic Symptoms: None known.

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. Depending on the degree of exposure, periodic medical examination may be indicated.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Water spray, fog (flooding amounts).

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire. Any extinguishing media other than water may be ineffective, as this product is its own oxygen source.

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. The substance is a strong oxidant and reacts with combustible and reducing materials.

Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers. Remove containers from fire area if this can be done without risk. Do not breathe fumes from fires or vapors from decomposition. 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: Thermal decomposition for sodium nitrite occurs at > 320 °C (> 608 °F) releasing nitrogen monoxide, nitrogen dioxide, 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).


For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Ventilate area. Eliminate ignition sources. 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.

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. Do not take up in combustible material such as: saw dust or cellulosic material. Avoid actions that cause dust to become airborne during clean-up such as dry sweeping or using compressed air. Use HEPA vacuum or thoroughly wet with water to clean-up dust. Use PPE described in Section 8. Contact competent authorities after a spill. Transfer spilled material to a suitable container for disposal.

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
Do not handle until all safety precautions have been read and understood. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not get in eyes, on skin, or on clothing. Do not breathe dust. 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.

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. Avoid creating or spreading dust.

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


Specific End Use(s)

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.

Exposure Controls

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


Materials for Protective Clothing: Chemically resistant materials and fabrics.
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.

Environmental Exposure Controls: Avoid release to the environment.
Other Information: When using, do not eat, drink or smoke.
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SECTION 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>Physical State</td>
<td>Solid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Pale straw-colored</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>Ph</td>
<td>Not available</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not available</td>
</tr>
<tr>
<td>Melting Point</td>
<td>271.1 °C (519.98 °F)</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Auto-ignition Temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not available</td>
</tr>
<tr>
<td>Lower Flammable Limit</td>
<td>Not available</td>
</tr>
<tr>
<td>Upper Flammable Limit</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not available</td>
</tr>
<tr>
<td>Relative Vapor Density at 20°C</td>
<td>Not available</td>
</tr>
<tr>
<td>Relative Density</td>
<td>Not available</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>2.168</td>
</tr>
<tr>
<td>Solubility</td>
<td>Not available</td>
</tr>
<tr>
<td>Partition Coefficient: N-Octanol/Water</td>
<td>Not available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available</td>
</tr>
</tbody>
</table>

SECTION 10: STABILITY AND REACTIVITY
Reactivity: Oxidizer: increases the burning rate of combustible materials. The substance is a strong oxidant and reacts with combustible and reducing materials.

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

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Extremely high or low temperatures and incompatible materials. Sparks, heat, open flame, combustible materials, organic material and other sources of ignition.


Hazardous Decomposition Products: None known.

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:

<table>
<thead>
<tr>
<th>Compound</th>
<th>LD50/ LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Nitrite, Free-Flowing Grades</td>
<td>ATE (Oral) 86.29 mg/kg body weight</td>
</tr>
</tbody>
</table>

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. Respirable dust may be absorbed through the bloodstream and have adverse effects.

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

Symptoms/Effects After Eye Contact: Causes serious eye irritation. 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. 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.

Chronic Symptoms: None known.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>LD50 Oral Rat</th>
<th>LC50 Inhalation Rat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium nitrite (7632-00-0)</td>
<td>85 mg/kg</td>
<td>5.5 mg/l/4h</td>
</tr>
<tr>
<td>Sodium nitrate (7631-99-4)</td>
<td>&gt; 2000 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Disodium carbonate (497-19-8)</td>
<td>4090 mg/kg</td>
<td>2300 mg/m³ (Exposure time: 2 h)</td>
</tr>
</tbody>
</table>

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Ecology - General: Very toxic to aquatic life.

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

Persistence and Degradability

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Persistence and Degradability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Nitrite, High Purity Grades And ACS</td>
<td>Not established.</td>
</tr>
<tr>
<td>Sodium nitrate (7631-99-4)</td>
<td>Readily biodegradable in water.</td>
</tr>
</tbody>
</table>

Bioaccumulative Potential

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Bioaccumulative Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Nitrite, High Purity Grades And ACS</td>
<td>Not established.</td>
</tr>
<tr>
<td>Sodium nitrite (7632-00-0)</td>
<td>-3.7 (at 25 °C)</td>
</tr>
<tr>
<td>Sodium nitrate (7631-99-4)</td>
<td>-3.8 (at 25 °C)</td>
</tr>
</tbody>
</table>

Bioaccumulative Potential: Not expected to bioaccumulate.
## Sodium Nitrite, High Purity Grades and ACS

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<table>
<thead>
<tr>
<th>Disodium carbonate (497-19-8)</th>
<th>BCF Fish 1</th>
<th>(no bioaccumulation)</th>
</tr>
</thead>
</table>

### Mobility in Soil

Not available

### Other Adverse Effects

Other Information: Avoid release to the environment.

### SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal Recommendations:** Dispose of contents/container in accordance with local, regional, national, territorial, provincial, 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**

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

### SECTION 15: REGULATORY INFORMATION

#### US Federal Regulations

<table>
<thead>
<tr>
<th>Chemical Name (CAS No.)</th>
<th>CERCLA RQ</th>
<th>EPCRA 304 RQ</th>
<th>SARA 302 TPQ</th>
<th>SARA 313</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium nitrite (7632-00-0)</td>
<td>100 lb</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Yes</td>
</tr>
<tr>
<td>Sodium nitrate (7631-99-4)</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>No</td>
</tr>
<tr>
<td>Disodium carbonate (497-19-8)</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>No</td>
</tr>
</tbody>
</table>

**SARA 311/312**

**Sodium Nitrite, High Purity Grades And ACS**

Fire hazard. Immediate (acute) health hazard

#### US TSCA Flags

<table>
<thead>
<tr>
<th>Chemical Name (CAS No.)</th>
<th>US TSCA Flags/ Other Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium nitrite (7632-00-0)</td>
<td>S - S - indicates a substance that is identified in a proposed or final Significant New Uses Rule.</td>
</tr>
</tbody>
</table>

#### US State Regulations
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California Proposition 65

<table>
<thead>
<tr>
<th>Chemical Name (CAS No.)</th>
<th>Carcinogenicity</th>
<th>Developmental Toxicity</th>
<th>Female Reproductive Toxicity</th>
<th>Male Reproductive Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium nitrite (7632-00-0)</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Sodium nitrate (7631-99-4)</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Disodium carbonate (497-19-8)</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

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

**N-[2-(1-methylpyrrol-2-yl)-3H-benzimidazol-5-yl]furanyl-2-carboxamide (977052-10-0)**
- 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

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)

International Inventories/Lists

<table>
<thead>
<tr>
<th>Chemical Name (CAS No.)</th>
<th>Australia AICS</th>
<th>Turkey CICR</th>
<th>Korea ECL</th>
<th>EU EINECS</th>
<th>EU ELINCS</th>
<th>EU SVHC</th>
<th>EU NLP</th>
<th>Mexico INSQ</th>
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</thead>
<tbody>
<tr>
<td>Sodium nitrite (7632-00-0)</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
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<tr>
<td>Sodium nitrate (7631-99-4)</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
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<tr>
<td>Disodium carbonate (497-19-8)</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
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</table>
Sodium Nitrite, High Purity Grades and ACS
Safety Data Sheet

<table>
<thead>
<tr>
<th>Chemical Name (CAS No.)</th>
<th>China IECSC</th>
<th>Japan ENCS</th>
<th>Japan ISHL</th>
<th>Japan PDSCL</th>
<th>Japan PRTR</th>
<th>Philippines PICCS</th>
<th>New Zealand NZIOC</th>
<th>US TSCA</th>
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<tbody>
<tr>
<td>Sodium nitrite (7632-00-0)</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
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<tr>
<td>Sodium nitrate (7631-99-4)</td>
<td>Yes</td>
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<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Disodium carbonate (497-19-8)</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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</tbody>
</table>

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION
Date of Preparation or Latest Revision : 06/09/2017
Revision Summary

<table>
<thead>
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<th>Section</th>
<th>Change</th>
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<tr>
<td>3</td>
<td>Ingredient modification</td>
<td>09/24/2018</td>
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<tr>
<td>16</td>
<td>NFPA and HMIS update</td>
<td>09/24/2018</td>
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</table>

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).

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
- 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 fire 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

Abbreviations and Acronyms

AICS – Australian Inventory of Chemical Substances
ACGIH – American Conference of Governmental Industrial Hygienists
AIHA – American Industrial Hygiene Association
ATE – Acute Toxicity Estimate
BCF – Bioconcentration factor
BEI – Biological Exposure Indices (BEI)
CAS No. – Chemical Abstracts Service number
CERCLA RQ – Comprehensive Environmental Response, Compensation, and Liability Act - Reportable Quantity
CICR – Turkish Inventory and Control of Chemicals
LOAC – Lawrence Livermore National Laboratory
LC50 - Median Lethal Concentration
LD50 - Median Lethal Dose
LOAEL - Lowest Observed Adverse Effect Level
LOEC - Lowest-observed-effect Concentration
Log Pow - Octanol/water Partition Coefficient
NRC - National Research Council
NTP - National Toxicology Program
NIOSH - National Institute for Occupational Safety and Health
NOAEL - No-Observed Adverse Effect Level
NOEC - No-Observed Effect Concentration
NPL - National Priority List
NPL - National Pollutant List
PICS - Philippine Integrated Chemicals Inventory System
PRTR - Prevention of Significant Deterioration
TSCA - Toxic Substances Control Act
US TSCA - US Toxic Substances Control Act

09/24/2018    EN (English US)    SDS#: CHE-20205    9/10
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