



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 Date of Issue: 03/15/2018

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

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 Acute Tox. 3 (Oral), H301 Eye Irrit. 2A, H319 Aquatic Acute 1, H400
Sodium nitrate	(CAS No) 7631-99-4	< 0.8	Ox. Sol. 3, H272 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.

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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.

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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 ³)	10 mg/m ³
British Columbia	OEL TWA (mg/m ³)	4 mg/m ³ (total dust) 1.5 mg/m ³ (respirable dust)
New Brunswick	OEL TWA (mg/m ³)	10 mg/m ³
Nunavut	OEL STEL (mg/m ³)	20 mg/m ³
Nunavut	OEL TWA (mg/m ³)	10 mg/m ³
Northwest Territories	OEL STEL (mg/m ³)	20 mg/m ³
Northwest Territories	OEL TWA (mg/m ³)	10 mg/m ³
Québec	VEMP (mg/m ³)	6 mg/m ³ (containing no Asbestos and <1% Crystalline silica-respirable dust)
Saskatchewan	OEL STEL (mg/m ³)	20 mg/m ³
Saskatchewan	OEL TWA (mg/m ³)	10 mg/m ³

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

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

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Ecology - General: Very toxic to aquatic life.

Sodium nitrite (7632-00-0)	
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])
Sodium nitrate (7631-99-4)	
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])
Disodium carbonate (497-19-8)	
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

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

Bioaccumulative Potential

Sodium Nitrite, Granular Super Free-Flowing Technical Grade	
Bioaccumulative Potential	Not established.
Sodium nitrite (7632-00-0)	
Log Pow	-3.7 (at 25 °C)
Sodium nitrate (7631-99-4)	
Log Pow	-3.8 (at 25 °C)
Bioaccumulative Potential	Not expected to bioaccumulate.
Disodium carbonate (497-19-8)	
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.



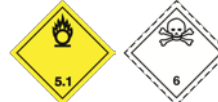

Ecology - Waste Materials: Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

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

Sodium Nitrite, Granular Super Free-Flowing Technical Grade
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 AICS	Turkey CICR	Korea ECL	EU EINECS	EU ELINCS	EU SVHC	EU NLP	Mexico 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

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Silica, amorphous, precipitated and gel (112926-00-8)	Yes	Yes	Yes	No	No	No	No	Yes
Chemical Name (CAS No.)	China IECSC	Japan ENCS	Japan ISHL	Japan PDSCCL	Japan PRTR	Philippines PICCS	New Zealand NZIOC	US TSCA
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 Listed as (CAS # 7631-86- 9) on U.S. TSCA 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

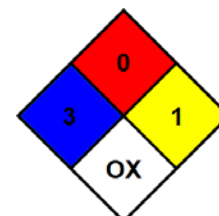
Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Hazardous Products Regulations (HPR) SOR/2015-17.

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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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

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