



Safety Data Sheet

(SODIUM NITRITE 20% (w/w) SOLUTION)

1 – PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:SODIUM NITRITE 20% (w/w) SOLUTION

CHEMICAL NAME/

CLASS/SYNONYMS:Sodium Nitrite, 20% (w/w)

PRODUCT NUMBER:SODIUM NITRITE 20% (w/w) SOLUTION

UN/NA NUMBER:3219

CHEMICAL FAMILY:Inorganic Compound

CAS NUMBER:Not applicable for mixtures.

FORMULA:Proprietary

COMPANY:JMN Specialties, Inc.

1100 Victory Drive – Westwego, Louisiana USA 70094

Phone (504) 341-3749, Fax (504) 341-5868

www.jmnspecialties.com

EMERGENCY PHONE:CALL CHEMTEL: Toll Free US & Canada: (800) 255-3924, Outside USA +01-813-248-0585.

DATE PREPARED:October 2, 2022

2 – HAZARDS IDENTIFICATION

GHS HAZARD CLASSIFICATION:

Physical Hazards

Flammable Liquids:No Hazard Statement established for this Product

Corrosive Liquids:No Hazard Statement established for this Product

Health Hazards

Acute Toxicity:Category 4 - Harmful if swallowed, in contact with skin, inhaled

Skin Corrosion/Irritation:Category 2 - Causes skin irritation

Eye Damage/Irritation:Category 2A - Causes eye irritation

Aspiration Hazard:Category 2 - May be harmful if swallowed and enters airways.

Carcinogen:No Hazard Statement established for this Product

Specific Target Organ

Toxicity Single Exposure:Category 1: Causes damage to organs. Target Organs: Blood.

Specific Target Organ

Toxicity Repeated Exposure:Category 2: May cause damage to organs through prolonged or repeated exposure. (Skin, Eyes, Blood)

Hazardous to the Environment

Aquatic (Acute):Category 1

Aquatic (Chronic):Category 2

See Section 11 for additional Toxicological information



Safety Data Sheet

(SODIUM NITRITE 20% (w/w) SOLUTION)

EMERGENCY OVERVIEW:

Pictograms:



Signal Word (GHS-US):**WARNING!**

Hazard Statements:

Physical Hazards (GHS-US):

No Hazard Statement established for this Product

Health Hazards (GHS-US):

H301: Toxic if swallowed. H319: Causes serious eye irritation.

Environmental Hazards (GHS-US):

H400: Very toxic to aquatic life

Precautionary Statements (GHS-US):

P101+P102+P103: If medical advice is needed, have product container or label at hand. Keep out of the reach of children. Read label before use.

P202+P233+P270+P280+P281: Do not handle until all safety precautions have been read and understood. Keep container tightly closed. Do not eat, drink or smoke when using this product.

Wear protective gloves/protective clothing/eye protection/face protection. Use personal protective equipment as required. P264: Wash thoroughly after handling. P260: Do not breathe mist, vapors, spray. P273: Avoid release to the environment.

P233+P405: Keep container tightly closed. Store locked up.

Response Statements (GHS-US):

P301+P310+P330+P331: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting. P303+P310+P361+P353: IF ON SKIN (or hair): Gently wash with plenty of soap and water. Remove / Take off immediately all contaminated clothing. P332+P313: If skin irritation occurs: Get medical advice / attention. P304+P340+P312: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. P305+P351+P338+P337+P313: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists get medical advice/attention. P362+P363 Take off contaminated clothing. Wash contaminated clothing before reuse.

P501: Dispose of contents/container: Treatment, storage, transportation and disposal must be in accordance with Federal, State/Provincial and Local Regulations. Regulations may vary in different locations.

TOTAL VOC's:.....None



Safety Data Sheet

(SODIUM NITRITE 20% (w/w) SOLUTION)

3 – COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	PERCENT*	CAS NUMBER
Sodium Nitrite	20	7632-00-0

*Any concentration shown as a range is to protect confidentiality or is due to batch variation. When not listed, mixtures may contain water [CAS No. 7732-18-5] to 100%.

4 – FIRST-AID MEASURES

BREATHING (INHALATION):..... Remove from exposure area to fresh air immediately. If breathing has stopped, perform artificial resuscitation. Keep person warm and at rest. Treat symptomatically and supportively. Seek medical attention immediately. Qualified medical personnel should consider administering oxygen.

SWALLOWING (INGESTION):..... Give large amounts of fresh water or milk immediately. Do not give anything by mouth if person is unconscious or otherwise unable to swallow. If vomiting occurs, keep head below hips to prevent aspiration. Treat symptomatically and supportively. Seek medical attention immediately.

EYES: Flush eye with copious quantities of water. If persistent irritation occurs, obtain medical attention.

SKIN (DERMAL): Remove contaminated clothing and wash affected skin with soap and water. If persistent irritation occurs, obtain medical attention. When using high pressure equipment, injection of product under the skin can occur. If high pressure injuries occur, the casualty should be sent immediately to a hospital. Do not wait for symptoms to develop.

NOTE TO PHYSICIAN: All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

5 – FIRE-FIGHTING MEASURES

GENERAL FIRE HAZARDS: Water based blend - Non Flammable

AUTOIGNITION TEMP:..... None - Water based material

EXTINGUISHING MEDIA:..... Do not use carbon dioxide. Do not use ABC dry chemical agents. Do not use a heavy water stream. Use of heavy stream of water may spread fire.

SPECIAL FIRE FIGHTING PROCEDURES:..... Spilled product on ground may be slippery.



Safety Data Sheet

(SODIUM NITRITE 20% (w/w) SOLUTION)

UNUSUAL FIRE AND

EXPLOSION HAZARDS:.....Containers may explode from internal pressure if confined to fire. Cool with water spray.

6 – ACCIDENTAL RELEASE MEASURES

SPILL PROCEDURES:Wear appropriate personal protective equipment before approaching spill site. For small spills, dilute with water to sewer if allowed by local and state regulations. If unable to wash product with water, absorb with inert material (sand or other approved material) and dispose of in accordance with applicable regulations.

WASTE DISPOSAL:.....Treatment, storage, transportation and disposal must be in accordance with Federal, State/Provincial and Local Regulations. Regulations may vary in different locations. Characterization and compliance with applicable laws are the responsibility solely of the generator. Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

RCRA STATUS:..... If discarded in its purchased form, it is not a RCRA hazardous waste. It is the responsibility of the product user to determine at the time of disposal, whether a material containing the product should be classified as a hazardous waste. (40CFR261.20-24).

7 – HANDLING and STORAGE

STORAGE:..... Keep in a tightly closed container, stored in a cool, dry, ventilated area below 44°C (110°F). Protect against physical damage. Isolate from incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product. Drum must not be washed out or used for other purposes.

HANDLING:.....Avoid contact with eyes, skin and clothing. Do not inhale vapors and fumes. Wash thoroughly after handling. Use only with adequate ventilation. Do not take internally. For industrial use only.



Safety Data Sheet

(SODIUM NITRITE 20% (w/w) SOLUTION)

8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS

HAZARDOUS INGREDIENT

Sodium Nitrite

PEL

15 mg/m³

TLV-TWA

5 mg/m³



EXPOSURE CONTROLS:..... Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

RESPIRATORY PROTECTION:..... Respiratory protection not normally required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

PROTECTIVE CLOTHING:..... **Eye/face protection:** Wear chemical goggles; face shield (if splashing is possible). **Skin protection:** Chemical resistant, impermeable gloves. Gloves should be tested to determine suitability for prolonged contact. Use of impervious apron or chemical suit and chemical resistant boots are recommended.

ADDITIONAL MEASURES:..... Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Safety shower and eye wash should be available close to work areas.

9 – PHYSICAL / CHEMICAL PROPERTIES

BOILING POINT:..... 212°F (100°C)

FREEZING POINT:..... 32°F (0°C)

FLASHPOINT: Non-flammable material

UPPER FLAME LIMIT (%):..... NA

LOWER FLAME LIMIT (%):..... NA



Safety Data Sheet (SODIUM NITRITE 20% (w/w) SOLUTION)

VAPOR PRESSURE: No data available
VAPOR DENSITY (AIR=1):.....> 1 (Air = 1)
SPECIFIC GRAVITY:1.13 - 1.14
pH:9 - 9.5 (1% solution)
SOLUBILITY IN WATER:.....Complete
VOLATILITY
INCLUDING WATER:9.47 - 9.45 pound per gallon
MOLECULAR WEIGHT:.....No data available (G/MOLE)
EVAPORATION RATE:Similar to Water
PHYSICAL STATE:.....Liquid
COLOR:Clear to pale straw
ODOR:No odor

10 – STABILITY and REACTIVITY

STABILITY:Stable
HAZARDOUS DECOMP.:Will not occur
INCOMPATIBILITY:Avoid temperatures below 32°F and above 120°F.
HAZARDOUS REACTIONS:..... Not expected to be Explosive, Self-Reactive, Self-Heating, or an Organic Peroxide under US GHS Definition(s).

11 – TOXICOLOGICAL INFORMATION

THRESHOLD LIMIT VALUE:.....None Established for this Product
OSHA PEL:.....None Established for this Product
LISTED CARCINOGEN:..... This product IS NOT listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest editions) or found to be a potential carcinogen by OSHA.

MEDICAL CONDITION

AGGRAVATED:..... Existing dermatitis.

INFORMATION ON ACUTE TOXICOLOGICAL EFFECTS

ORAL

Product: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.



Safety Data Sheet

(SODIUM NITRITE 20% (w/w) SOLUTION)

DERMAL

Product:Skin contact may aggravate existing dermatitis.

INHALATION

Product:May cause respiratory irritation, may be harmful if inhaled.

REPEATED DOSE TOXICITY

Product:No Data Available

SKIN CORROSION / IRRITATION

Product:Repeated and prolonged exposure to concentrated material may cause dermatitis.

SERIOUS EYE DAMAGE / IRRITATION

Product:May cause mild to severe eye irritation

RESPIRATORY OR SKIN SENSITIZATION

Product:No Data Available

MUTAGENICITY

IN VITRO

Product:No Data Available

IN VIVO

Product:No Data Available

Specified Substance(s)

Sodium Nitrite

Information as provided by manufacturer

Data has shown negative results for mutagenicity both in vitro and in vivo for this product and its separate ingredients. It is concluded that the available data are sufficient and indicate that this material has no significant genotoxicity.

CARCINOGENICITY

Product:Product does not contain substances meeting the criteria for classification as carcinogenic, mutagenic, or toxic for reproduction category 1A or 1B in accordance with the Classification, Labeling, and Packaging (CLP) Regulation (EC) No. 1272/2008

REPRODUCTIVE TOXICITY

Product:Based on available data the classification criteria are not met. Not classified as hazardous.

SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE

Product:..... **GENERAL:** Liquid or vapors may be irritating to skin and eyes.

INHALATION: High concentrations of vapor may cause irritation of the respiratory tract, experienced as nasal discomfort and discharge, possibly with chest pain and coughing. Headache, nausea, vomiting, dizziness, and drowsiness may occur. **EYES:** May cause mild to severe irritation experienced as discomfort or pain, excess blinking and tear production, possibly with marked redness and swelling of the conjunctiva. **SKIN:** Brief contact may cause slight irritation with itching and local redness. Prolonged contact, especially with concentrate, may cause more severe irritation, with discomfort or pain. **SWALLOWING:** May cause headache, dizziness, in-coordination, nausea, vomiting, diarrhea, and general weakness.



Safety Data Sheet

(SODIUM NITRITE 20% (w/w) SOLUTION)

SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSURE

Product:The effects of long-term, low-level exposures to this product have not been determined. Safe handling of this material on a long-term basis should emphasize the avoidance of all effects from repetitive acute exposure. This product may aggravate existing eye, skin, and respiratory conditions.

ASPIRATION HAZARD

Product:Droplets of the product aspirated into the lungs through ingestion or vomiting may cause chemical pneumonia.

OTHER ADVERSE EFFECTS

Product:No data available

12 – ECOLOGICAL INFORMATION

ACUTE TOXICITY

FISH

Product:0.19 mg/l (Exposure time: 96 h - Species: *Oncorhynchus mykiss* [flow-through])

AQUATIC INVERTEBRATES

Product:EC50 0.1 - 1 mg/l, 48 hour, *Daphnia Magna* (water flea), Read-across (Analogy)

CHRONIC TOXICITY

FISH

Product: Toxic to fish. Estimated based on individual component values.

AQUATIC INVERTEBRATES

Product:NOEC/NOEL: 0.10 - 1.00 mg/L (based on similar products / components)

TOXICITY TO AQUATIC PLANTS

Product:Product is ecotoxic. Long term adverse effects to aquatic plants is possible if continuous exposure is maintained.

PERSISTENCE AND DEGRADABILITY

BIODEGRADATION

Product:The methods for determining the biological degradability are not applicable to predominately inorganic substances.

BIOLOGICAL OXYGEN DEMAND

Product:No data available

CHEMICAL OXYGEN DEMAND

Product:No data available

BOD / COD RATIO

Product:No data available

BIOACCUMULATIVE POTENTIAL

Product:Potential to bioaccumulate is low.



Safety Data Sheet (SODIUM NITRITE 20% (w/w) SOLUTION)

MOBILITY IN SOIL

Product:Expected to partition to water.

RESULTS OF PBT AND mPvB ASSESSMENT

Product:Not fulfilling PBT (persistent/bio accumulative/toxic) criteria.
Not fulfilling vPvB (very persistent, very bio accumulative) criteria.

OTHER ADVERSE EFFECTS

Product:This mixture consists of component(s) of known acute hazards to the aquatic environment. This mixture consists of component(s) of known long-term hazards to the aquatic environment.

13 –DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:.....Treatment, storage, transportation and disposal must be in accordance with Federal, State/Provincial and Local Regulations. Regulations may vary in different locations. Characterization and compliance with applicable laws are the responsibility solely of the generator. Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

RCRA STATUS:..... If discarded in its purchased form, it is not a RCRA hazardous waste. It is the responsibility of the product user to determine at the time of disposal, whether a material containing the product should be classified as a hazardous waste. (40CFR261.20-24).

14 – TRANSPORTATION INFORMATION

Important Note: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Consult your company's Hazardous Materials/Dangerous Goods expert for information specific to your situation.

UN/NA NUMBER:.....3219

PROPER SHIPPING NAME:..... Nitrites, inorganic, aqueous solution, n.o.s., Contains (Sodium Nitrite)

HAZARD CLASS:.....5.1

PACKAGING GROUP :III

LETTER:.....O (Oxidizing agents)



Safety Data Sheet

(SODIUM NITRITE 20% (w/w) SOLUTION)

ENVIRONMENTAL HAZARD:Because of modern treatment methods or method of use of this product, only an insignificant amount of the ingredients reaches the environment. That amount is at such levels as to typically not cause any adverse effects.

REPORTABLE QUANTITY:.....None

15 - REGULATIONS

This Safety Data Sheet conforms to ANSI Z400.5, and to the format requirements and the International Chemical Safety Cards of the Global Harmonizing System. This SDS complies with 29 CFR 1910.1200 (HAZARD COMMUNICATION STANDARD). **IMPORTANT:** Read this SDS before handling & disposing of this product. Pass this information on to employees, customers, & users of this product.

EPA SRA Title III Chemical Listings:

TSCA STATUS:This product is listed on the TSCA inventory. If this product is a blend, all ingredients in the product are listed on the TSCA Inventory List. Any impurities present in this product are exempt from listing.

SECTION 302:.....None

SECTION 304:.....None

SECTION 312:.....None

SARA SECTION 313:.....None

ACUTE:Yes (Eyes)

CHRONIC:No

FIRE:No

PRESSURE:.....No

REACTIVE:.....No

CLEAN WATER ACT:.....None

IMDG – International Marine Dangerous Goods Code

UN3219, Nitrites, inorganic, aqueous solution, n.o.s., Contains (Sodium Nitrite). 5.1. PG III, EmS F-A, S-Q.

IATA

UN3219, Nitrites, inorganic, aqueous solution, n.o.s., Contains (Sodium Nitrite), 5.1, PG III.

DEA Chemical Trafficking Act: ..No

Homeland Security Regulated ..This product does not contain any reportable DHS chemicals.

California Proposition 65 Chemical / Mixture not Listed

Component.....Chemical / Mixture not Listed

Cal Prop 65 NSRL.....No Significant Risk Level



Safety Data Sheet (SODIUM NITRITE 20% (w/w) SOLUTION)

US State Right to Know (RTK)

Component.....Chemical / Mixture not Listed

MassachusettsNo

New JerseyNo

PennsylvaniaNo

IllinoisNo

Rhode IslandNo

****RTK Chemical(s)**Chemical / Mixture not Listed

Canada NPRIChemical / Mixture not Listed

DSL (Canadian Domestic Substances List) and CEPA (Canadian Environmental Protection Act): All ingredients in this product are listed on the DSL. Any impurities present in this product are exempt from listing.

AICS / NICNAS (Australian Inventory of Chemical Substances and National Industrial Chemicals Notification and Assessment Scheme): All ingredients in this product are listed on AICS or otherwise complies with NICNAS.

MITI (Japanese Handbook of Existing and New Chemical Substances): All ingredients in this product are listed in the Handbook or has been approved in Japan by new substance notification.

ECL (Korean Toxic Substances Control Act): All ingredients in this product are listed on the Korean inventory or otherwise complies with the Korean Toxic Substances Control Act.KE-04134

Philippines Inventory (PICCS): All ingredients in this product are listed on the Philippine Inventory or otherwise complies with PICCS.

Inventory of Existing Chemical Substances in China: All ingredients in this product are listed on the Inventory of Existing Chemical Substances in China (IECSC).



Safety Data Sheet (SODIUM NITRITE 20% (w/w) SOLUTION)

16 – OTHER INFORMATION

HMIS*

HEALTH	2
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	C

***HMIS®HAZARD INDEX: 0=Minimal Hazard, 1=Slight Hazard, 2=Moderate Hazard, 3=Serious Hazard, 4=Severe Hazard.**

HMIS® rating involves data interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this SDS and product label must be considered.

ND = No Data, NA = Not Applicable/Not Available, ≤ = Less than or equal to, ≥ = Greater than or equal to

REVISION STATEMENT: Changes have been made throughout this Safety Data Sheet (SDS). Please read the entire document. Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and The Globally Harmonized System of Classification and Labeling of Chemicals (GHS) by the Company Health and Risk Assessment Unit.

DISCLAIMER:

Although the information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed to be correct as of the date hereof, the Company makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving this Safety Data Sheet (SDS) will make their own determination as to its suitability for their intended purposes prior to use. Since the product is within the exclusive control of the user, it is the user's obligation to determine the conditions of safe use of this product. Such conditions should comply with all Federal and State Regulations concerning the Product. It must be recognized that the physical and chemical properties of any product may not be fully understood and that new, possibly hazardous products may arise from reactions between chemicals. The information given in this data sheet is based on our present knowledge and shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. **NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS.**

*****This is the last page of this SDS*****