

Classified According to OSHA Hazard Communication Standard (HCS)

SECTION 1: Identification

1.1. Product Identifier

Trade Name or Designation: Nitrite Star

Nitrite Standard, 500 ppm NO₂⁻ (152.25 ppm N)

Product Number: 5444.5 Other Identifying Product Numbers: 5444.5-4

1.2. Recommended Use and Restrictions on Use

General Laboratory Reagent

1.3. Details of the Supplier of the Safety Data Sheet

Company: Ricca Chemical Company Address: 448 West Fork Drive

Arlington, TX 76012 USA

Telephone: 888-467-4222

1.4. Emergency Telephone Number (24 hours)

CHEMTREC (USA) CHEMTREC (International) 800-424-9300 1+ 703-527-3887

SECTION 2: Hazard(s) Identification

2.1. Classification of the Substance or Mixture

For the full text of the Hazard and Precautionary Statements listed below, see Section 16.

		Hazard	
Hazard Class	Category	Statements	Precautionary Statements:
Reproductive Toxicity	Category 2	H361	P201, P202, P280, P308+P313, P405, P501

2.2. GHS Label Elements

Pictograms:





Signal Word: Warning

Hazard Statements:

Hazard Number	Hazard Statement	
H361	Suspected of damaging fertility or the unborn child.	

Precautionary Statements:

Precautionary Number	Precautionary Statement
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P280	Wear protective gloves and eye protection.
P308+P313	IF exposed or concerned: Get medical attention.
P405	Store locked up.
P501	Dispose of contents in accordance with local, state, federal and international regulations.

2.4. Hazards not Otherwise Classified or Covered by GHS

Data not available.

SECTION 3: Composition / Information on Ingredients

3.1. Components of Substance or Mixture

Chemical Name	Formula	Molecular Weight CAS Number	Weight%
Water	H ₂ O	18.01 g/mol 7732-18-5	99.74
Chloroform		119.37 g/mol 67-66-3	0.18
Sodium Nitrite	NaNO ₂	68.99 g/mol 7632-00-0	< 0.1

SECTION 4: First-Aid Measures

4.1. General First Aid Information

Eye Contact: May cause irritation, redness, pain, and tearing.

Inhalation: Not expected to require first aid. If necessary, remove to fresh air.

Skin Contact: May cause slight irritation.

Ingestion: Dilute with water or milk. Call a physician if necessary.

4.2. Most Important Symptoms and Effects, Acute and Delayed

Suspected of damaging fertility or the unborn child. May cause irritation to the skin and eyes. Wash areas of contact with soap and water. Contains a minute amount of chloroform as a preservative. Chloroform is a possible carcinogen. EYE CONTACT: May cause irritation, redness, pain, and tearing. SKIN CONTACT: May cause slight irritation.

Product Number: 5444.5



4.3. Medical Attention or Special Treatment Needed

Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops. Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen. Flush with plenty of water for at least 15 minutes. Call a physician if irritation develops. Dilute with water or milk. Call a physician if necessary.

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing Media

Use any means suitable for extinguishing surrounding fire.

5.2. Specific Hazards Arising from the Substance or Mixture

Not considered to be a fire or explosion hazard.

5.3. Special Protective Equipment for Firefighters

Use protective clothing and breathing equipment appropriate for the surrounding fire.

SECTION 6: Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Wear protective gloves and eye protection.

6.2. Cleanup and Containment Methods and Materials

Absorb with suitable material and dispose of in accordance with local regulations.

SECTION 7: Handling and Storage

7.1. Precautions for Safe Handling and Storage Conditions

Store locked up. As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage.

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Safety Data Sheet

SECTION 8: Exposure Controls / Personal Protection

8.1 Control Parameters

Chemical Name	Limit Type	Country	Exposure Limit	Information Source
Chloroform (67-66-3)	PEL-Ceiling	USA	50 ppm Ceiling; 240 mg/m³ Ceiling	U.S OSHA - Final PELs - Ceiling Limits
Chloroform (67-66-3)	TLV-TWA	USA	10 ppm TWA	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Chloroform (67-66-3)	TWA	USA	"0.5 mg/m ³ TWA (as Sb)" As Antimony compounds [RR-00585-6]	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
Chloroform (67-66-3)	TLV-TWA	USA	"0.5 mg/m ³ TWA (as Sb)" As Antimony compounds [RR-00585-6]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)

8.2. Exposure Controls

Engineering Controls: No specific controls are needed. Normal room ventilation is adequate.

Respiratory Protection: Normal room ventilation is adequate.

Skin Protection: Wear protective gloves and eye protection. Chemical resistant gloves.

Eye Protection: Wear protective gloves and eye protection. Safety glasses or goggles.

8.3. Personal Protective Equipment

Wear protective gloves and eye protection. Normal room ventilation is adequate. Chemical resistant gloves. Safety glasses or goggles.

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Safety Data Sheet

SECTION 9: Physical and Chemical Properties

9.1. Basic Physical and Chemical Properties

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Appearance: Colorless liquid
                 Physical State: Liquid
                            Odor: Data not available.
                Odor Threshold: Data not available.
                               pH: approximately 9
        Melting/Freezing Point: 0.0°C
    Initial Boiling Point/Range: 100°C - 100°C
                     Flash Point: Data not available.
              Evaporation Rate: Data not available.
                   Flammability: Data not available.
Flammability/Explosive Limits: Data not available.
                Vapor Pressure: Data not available.
                  Vapor Density: Data not available.
               Relative Density: 1.0
                       Solubility: Miscible
           Partition Coefficient: Data not available.
    Auto-Ignition Temperature: Data not available.
 Decomposition Temperature: Data not available.
                       Viscosity: Data not available.
          Explosive Properties: Data not available.
          Oxidizing Properties: Data not available.
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SECTION 10: Stability and Reactivity

10.1. Reactivity and Chemical Stability

Stable under normal conditions of use and storage.

10.2. Possibility of Hazardous Reactions

Data not available.

10.3. Conditions to Avoid and Incompatible Materials

Cyanides, Ammonium salts, Lithium, Potassium plus Ammonia, Sodium Thiosulfate.

10.4. Hazardous Decomposition Products

Will not occur.

Product Number: 5444.5



SECTION 11: Toxicological Information

11.1. Information on Toxicological Effects

Acute Toxicity - Oral Exposure:

Not applicable.

Acute Toxicity - Dermal Exposure:

Not applicable.

Acute Toxicity - Inhalation Exposure:

Not applicable.

Acute Toxicity - Other Information:

LD50, Oral, Rat: 180 mg/kg (Sodium Nitrite), details of toxic effects not reported other than lethal dose value.

Skin Corrosion and Irritation:

Not applicable.

Serious Eye Damage and Irritation:

Not applicable.

Respiratory Sensitization:

Not applicable.

Skin Sensitization:

Not applicable.

Germ Cell Mutagenicity:

Not applicable.

Carcinogenicity:

Not applicable.

Reproductive Toxicity:

Suspected of damaging fertility or the unborn child. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves and eye protection. IF exposed or concerned: Get medical attention. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

Specific Target Organ Toxicity from Single Exposure:

Not applicable.

Specific Target Organ Toxicity from Repeated Exposure:

Not applicable.

Aspiration Hazard:

Not applicable.

Additional Toxicology Information:

Data not available.



SECTION 12: Ecological Information

12.1. Ecotoxicity

Not applicable.

- **12.2. Persistence and Degradability** Data not available.
- **12.3. Bioaccumulative Potential** Data not available.
- 12.4. Mobility in Soil

Data not available.

12.5. Other Adverse Ecological Effects

Data not available.

SECTION 13: Disposal Considerations

13.1. Waste Treatment Methods

Data not available.

SECTION 14: Transportation Information

14.1. Transportation by Land-Department of Transportation (DOT, United States of America)

Not regulated according to DOT Regulations.



14.2. Transportation by Air - International Air Transport Association (IATA)

Not regulated according to IATA Dangerous Goods Regulations.

14.3 Transportation of Dangerous Goods (TDG, Canada)

Not regulated according to TDG Regulations.

SECTION 15: Regulatory Information

- **15.1. Occupational Safety and Health Administration (OSHA) Hazards** Not listed.
- **15.2. Superfund Amendments and Reauthorization Act (SARA) 302 Extremely Hazardous Substances** Chloroform (CAS # 67-66-3): 10 lb EPCRA RQ

Chloroform (CAS # 67-66-3): 10000 lb TPQ

15.3. Superfund Amendments and Reauthorization Act (SARA) 311/312 Hazardous Chemicals Chloroform (CAS # 67-66-3): 10 lb final RQ; 4.54 kg final RQ Sodium Nitrite (CAS # 7632-00-0): 100 lb final RQ; 45.4 kg final RQ



15.4. Superfund Amendments and Reauthorization Act (SARA) 313 Toxic Release Inventory (TRI)

Chloroform (CAS # 67-66-3): "1.0 % de minimis concentration (includes any unique chemical substance that contains Antimony as part of that chemical's infrastructure, listed under Chemical Category N010)" As Antimony compounds [RR-00585-6] Chloroform (CAS # 67-66-3): 0.1 % de minimis concentration Sodium Nitrite (CAS # 7632-00-0): 1.0 % de minimis concentration

15.5. Massachusetts Right-to-Know Substance List

Chloroform (CAS # 67-66-3): Carcinogen; Extraordinarily hazardous Sodium Nitrite (CAS # 7632-00-0): Present

15.6. Pennsylvania Right-to-Know Hazardous Substances

Chloroform (CAS # 67-66-3): "Environmental hazard" As Antimony compounds [RR-00585-6] Chloroform (CAS # 67-66-3): "Environmental hazard" As Halomethanes [RR-00327-0] Chloroform (CAS # 67-66-3): "Present" As Antimony compounds [RR-00585-6] Chloroform (CAS # 67-66-3): "Present" As Halomethanes [RR-00327-0] Chloroform (CAS # 67-66-3): Environmental hazard Chloroform (CAS # 67-66-3): Environmental hazard Chloroform (CAS # 67-66-3): Environmental hazard; Special hazardous substance Chloroform (CAS # 67-66-3): Present Sodium Nitrite (CAS # 7632-00-0): Environmental hazard Sodium Nitrite (CAS # 7632-00-0): Present Water (CAS # 7732-18-5): "Present" As Ethyl alcohol and water [RR-00802-6] Water (CAS # 7732-18-5): Present

15.7. New Jersey Worker and Community Right-to-Know Components

Chloroform (CAS # 67-66-3): "SN 2223 500 lb TPQ (Category Code N010. Includes any unique chemical substance that contains the named metal as part of that chemical structure)" As Antimony compounds [RR-00585-6] Chloroform (CAS # 67-66-3): "sn 2223" As Antimony compounds [RR-00585-6] Chloroform (CAS # 67-66-3): carcinogen Chloroform (CAS # 67-66-3): sn 0388 Chloroform (CAS # 67-66-3): SN 0388 500 lb TPQ Sodium Nitrite (CAS # 7632-00-0): sn 2258 Sodium Nitrite (CAS # 7632-00-0): SN 2258 500 lb TPQ

15.8. California Proposition 65

Chloroform (CAS # 67-66-3): 20 µg/day NSRL (oral); 40 µg/day NSRL (inhalation) Chloroform (CAS # 67-66-3): carcinogen, 10/1/1987 Chloroform (CAS # 67-66-3): developmental toxicity, 8/7/2009

15.9. Canada Domestic Substances List / Non-Domestic Substances List (DSL/NDSL)

Chloroform (CAS # 67-66-3): Present (DSL) Sodium Nitrite (CAS # 7632-00-0): Present (DSL) Water (CAS # 7732-18-5): Present (DSL)



15.10. United States of America Toxic Substances Control Act (TSCA) List

All components of this solution are listed as active on the TSCA Inventory or are mixtures (hydrates) of active items listed on the TSCA Inventory.

Chloroform (CAS # 67-66-3): Present (ACTIVE) Sodium Nitrite (CAS # 7632-00-0): Present [S] (ACTIVE) Water (CAS # 7732-18-5): Present (ACTIVE)

15.11. European Inventory of Existing Commercial Chemical Substances (EINECS), European List of Notified Chemical Substances (ELINCS), and No Longer Polymers (NLP)

Chloroform (CAS # 67-66-3): 200-663-8 Sodium Nitrite (CAS # 7632-00-0): 231-555-9 Water (CAS # 7732-18-5): 231-791-2

SECTION 16: Other Information

16.1. Full Text of Hazard Statements and Precautionary Statements

Suspected of damaging fertility or the unborn child.

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves and eye protection.

IF exposed or concerned: Get medical attention.

Store locked up.

Dispose of contents in accordance with local, state, federal and international regulations.

16.2. Miscellaneous Hazard Classes

Canadian Carcinogenicity Hazard Class: Not Applicable. Physical Hazards Not Otherwise Classified (PHNOC): Not Applicable. Health Hazards Not Otherwise Classified (HHNOC): Not Applicable. Biohazardous Infectious Materials Hazard Class: Not Applicable.



16.3. National Fire Protection Association (NFPA) Rating

Health:1Flammability:0Reactivity:0Special Hazard:



16.4. Document Revision

Last Revision Date: 2023-09-11

DISCLAIMER

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and RICCA CHEMICAL COMPANY assumes no legal responsibility or liability whatsoever resulting from its use.