

# SAFETY DATA SHEET

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

Product Name ICNO21

### Other means of identification

Product Description 1000 µg/mL: NO2-

### Recommended use of the chemical and restrictions on use

Recommended Use Laboratory chemicals.

Uses advised against No information available

### Details of the supplier of the safety data sheet

#### Company

Inorganic Ventures  
300 Technology Drive  
Christiansburg, VA 24073  
Phone: 1(800) 669-6799  
Email: info@inorganicventures.com

### Emergency Telephone Number

Chemtrec 1-800-424-9300 (North America)  
Chemtrec +1 703-741-5970 (International)

## 2. HAZARDS IDENTIFICATION

### GHS

#### Classification

|                 |             |
|-----------------|-------------|
| Carcinogenicity | Category 1B |
|-----------------|-------------|

#### Label Elements

#### Danger

#### Hazard statements

May cause cancer



Appearance clear /colorless

Physical state Liquid

Odor Odorless

#### Precautionary Statements - Prevention

Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

**Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)****Other Information**

No information available

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical name  | CAS No.   | Weight-% |
|----------------|-----------|----------|
| Sodium nitrite | 7632-00-0 | 0.15     |

### 4. FIRST AID MEASURES

**Description of first aid measures****General Advice**

If symptoms persist, call a physician.

**Eye Contact**

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. If symptoms persist, call a physician.

**Skin Contact**

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.

**Inhalation**

Remove to fresh air. Artificial respiration and/or oxygen may be necessary. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If symptoms persist, call a physician.

**Ingestion**

Clean mouth with water and drink afterwards plenty of water.

**Most important symptoms and effects, both acute and delayed****Most Important Symptoms and Effects**

Difficulty in breathing.

**Indication of any immediate medical attention and special treatment needed****Notes to Physician**

Treat symptomatically

### 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media**

Decomposition by contact with water may generate vapors which can be ignited by heat or open flame.

**Special Exposure Hazards Arising from the Substance/Mixture**

Thermal decomposition can lead to release of irritating gases and vapors The product causes irritation of eyes, skin and mucous membranes

**Explosion data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Use personal protective equipment as required. Do not get in eyes, on skin, or on clothing.

**Environmental precautions**

**Environmental precautions** Prevent further leakage or spillage if safe to do so. See Section 12 for additional Ecological Information.

**Methods and material for containment and cleaning up**

**Methods for Cleaning up** Dam up. Neutralise with lime milk; soda. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Handling** Wear personal protective equipment. Ensure adequate ventilation In case of insufficient ventilation, wear suitable respiratory equipment Do not get in eyes, on skin, or on clothing Do not breathe vapors or spray mist.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible Products** None known based on information supplied.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control Parameters**

**Exposure Guidelines** This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Appropriate engineering controls**

**Engineering Measures** Ensure adequate ventilation, especially in confined areas.

**Individual protection measures, such as personal protective equipment**

**Skin and Body Protection** Long sleeved clothing Boots

**Hand Protection** Impervious gloves

**Respiratory Protection** When workers are facing concentrations above the exposure limit they must use appropriate

**Hygiene Measures**

certified respirators If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn  
 Handle in accordance with good industrial hygiene and safety practice. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                         |                          |
|-----------------------------------------|--------------------------|
| Physical state                          | Liquid                   |
| Appearance                              | clear /colorless         |
| Odor                                    | Odorless                 |
| pH - VALUE 1                            | No data available        |
| Melting point / melting range           | No data available        |
| Initial boiling point and boiling range | 100 °C / 212 °F          |
| Vapor pressure @20 °C (kPa)             | No data available        |
| Relative vapor density                  | No data available        |
| Relative Density                        | No data available        |
| Specific gravity - VALUE 1              | No data available        |
| Water solubility                        | Miscible                 |
| Partition coefficient: n-octanol/water  | No data available        |
| Autoignition temperature                | No data available        |
| Decomposition temperature               | No data available        |
| Dynamic viscosity - VALUE 1             | No data available        |
| Explosive properties                    | No information available |
| Oxidizing Properties                    | No information available |
| VOC content                             | No information available |

## 10. STABILITY AND REACTIVITY

**Reactivity**

No data available

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

None under normal processing.

**Hazardous polymerization**      None under normal processing.

**Conditions to Avoid**

None known.

**Incompatible materials**

No information available

**Hazardous decomposition products**

None under normal use conditions.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

|                            |                                                                        |
|----------------------------|------------------------------------------------------------------------|
| <b>Product Information</b> | Irritating to eyes Irritating to respiratory system Irritating to skin |
| <b>Inhalation</b>          | Vapors may be irritating to eyes, nose, throat, and lungs.             |
| <b>Eye Contact</b>         | Irritating to eyes.                                                    |
| <b>Skin Contact</b>        | Irritating to skin.                                                    |
| <b>Ingestion</b>           | Ingestion may cause irritation to mucous membranes.                    |

**Component Information**

| Chemical name              | Oral LD50          | Dermal LD50 | Inhalation LC50        |
|----------------------------|--------------------|-------------|------------------------|
| Sodium nitrite - 7632-00-0 | = 85 mg/kg ( Rat ) | -           | = 5.5 mg/L ( Rat ) 4 h |

**Symptoms related to the physical, chemical and toxicological characteristics**

|                 |                           |
|-----------------|---------------------------|
| <b>Symptoms</b> | No information available. |
|-----------------|---------------------------|

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

|                             |                           |
|-----------------------------|---------------------------|
| <b>Sensitization</b>        | No information available. |
| <b>Mutagenic Effects</b>    | No information available. |
| <b>Carcinogenic effects</b> |                           |

| Chemical name               | ACGIH | IARC                                          | NTP | OSHA    |
|-----------------------------|-------|-----------------------------------------------|-----|---------|
| Sodium nitrite<br>7632-00-0 |       | Group 2A - Probably<br>carcinogenic to humans |     | Present |

|                                 |                           |
|---------------------------------|---------------------------|
| <b>Reproductive Toxicity</b>    | No information available. |
| <b>STOT - single exposure</b>   | No information available. |
| <b>STOT - repeated exposure</b> | No information available. |
| <b>Aspiration hazard</b>        | No information available. |

**Numerical measures of toxicity - Product Information**

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 56667 mg/kg

**12. ECOLOGICAL INFORMATION****Ecotoxicity****Ecotoxicity effects**

Contains 0 % of components with unknown hazards to the aquatic environment

| Chemical name               | Algae/aquatic plants | Fish                                                                                                                                                                                                                                                                                                          | Toxicity to microorganisms | Crustacea |
|-----------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------|
| Sodium nitrite<br>7632-00-0 |                      | LC50: =0.19mg/L (96h,<br>Oncorhynchus mykiss)<br>LC50: 0.092 - 0.13mg/L (96h,<br>Oncorhynchus mykiss)<br>LC50: 0.4 - 0.6mg/L (96h,<br>Oncorhynchus mykiss)<br>LC50: 0.65 - 1mg/L (96h,<br>Oncorhynchus mykiss)<br>LC50: =2.3mg/L (96h,<br>Pimephales promelas)<br>LC50: =20mg/L (96h,<br>Pimephales promelas) |                            |           |

**Persistence and Degradability**

No information available.

**Bioaccumulation**

No information available.

| Chemical name               | Partition coefficient |
|-----------------------------|-----------------------|
| Sodium nitrite<br>7632-00-0 | -3.7                  |

**13. DISPOSAL CONSIDERATIONS****Waste treatment methods**

**Waste from Residues/Unused Products** Dispose of in accordance with federal, state and local regulations

**Contaminated Packaging** Do not reuse empty containers.

| Chemical name               | California Hazardous Waste Status |
|-----------------------------|-----------------------------------|
| Sodium nitrite<br>7632-00-0 | Toxic<br>Ignitable<br>Reactive    |

**14. TRANSPORT INFORMATION****IMDG**

- 14.1. UN-No Not regulated  
 14.2. Proper shipping name Not regulated  
 14.3. Transport hazard class(es) Not regulated  
 14.4. Packing Group Not regulated  
     Description Not applicable  
 14.5. Marine Pollutant None  
 14.6. Special Provisions None  
 No information available Transport No information available  
 in bulk according  
 to Annex II of MARPOL 73/78 and  
 the IBC Code

**RID**

- 14.1. UN-No Not regulated  
 14.2. Proper shipping name Not regulated  
 14.3. Transport hazard class(es) Not regulated  
 14.4. Packing Group Not regulated  
     Description Not applicable  
 14.5. Environmental hazard None  
 14.6. Special Provisions None

**ADR**

- 14.1. UN-No Not regulated  
 14.2. Proper shipping name Not regulated  
 14.3. Transport hazard class(es) Not regulated  
 14.4. Packing Group Not regulated  
     Description Not applicable  
 14.5. Environmental hazard None  
 14.6. Special Provisions None

**ICAO**

- 14.1. UN-No Not regulated

|                            |                |
|----------------------------|----------------|
| 14.2. Proper Shipping Name | Not regulated  |
| 14.3. Hazard Class         | Not regulated  |
| 14.4. Packing Group        | Not regulated  |
| Description                | Not applicable |
| 14.5. Environmental hazard | None           |
| 14.6. Special Provisions   | None           |

**IATA-DGR**

|                            |                |
|----------------------------|----------------|
| 14.1. UN-No                | Not regulated  |
| 14.2. Proper shipping name | Not regulated  |
| 14.3.                      |                |
| 14.4. Packing Group        | Not regulated  |
| Description                | Not applicable |
| 14.5. Environmental hazard | None           |
| 14.6. Special Provisions   | None           |

**15. REGULATORY INFORMATION****International Inventories**

|               |          |
|---------------|----------|
| TSCA          | Complies |
| DSL/NDL       | Complies |
| EINECS/ELINCS | Complies |
| ENCS          | Complies |
| IECSC         | Complies |
| KECL          | Complies |
| PICCS         | Complies |
| AIIC          | Complies |

**Legend:***TSCA - United States Toxic Substances Control Act Section 8(b) Inventory**DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List**EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances**ENCS - Japan Existing and New Chemical Substances**IECSC - China Inventory of Existing Chemical Substances**KECL - Korean Existing and Evaluated Chemical Substances**PICCS - Philippines Inventory of Chemicals and Chemical Substances**AICS - Australian Inventory of Chemical Substances***U.S. Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

| Chemical name              | CAS No.   | Weight-% | SARA 313 - Threshold Values % |
|----------------------------|-----------|----------|-------------------------------|
| Sodium nitrite - 7632-00-0 | 7632-00-0 | 0.15     | 1.0                           |

**SARA 311/312 Hazard Categories**

|                                   |                |
|-----------------------------------|----------------|
| Acute health hazard               | No             |
| Chronic Health Hazard             | Not classified |
| Fire hazard                       | No             |
| Sudden Release of Pressure Hazard | No             |
| Reactive Hazard                   | No             |

**Clean Water Act**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

| Chemical name  | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|----------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Sodium nitrite | 100 lb                      |                        |                           | X                          |

|           |  |  |  |  |
|-----------|--|--|--|--|
| 7632-00-0 |  |  |  |  |
|-----------|--|--|--|--|

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

| Chemical name               | Hazardous Substances RQs | Extremely Hazardous Substances RQs | RQ                                        |
|-----------------------------|--------------------------|------------------------------------|-------------------------------------------|
| Sodium nitrite<br>7632-00-0 | 100 lb                   |                                    | RQ 100 lb final RQ<br>RQ 45.4 kg final RQ |

**U.S. State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals

**U.S. State Right-to-Know Regulations**

| Chemical name               | New Jersey | Massachusetts | Pennsylvania |
|-----------------------------|------------|---------------|--------------|
| Sodium nitrite<br>7632-00-0 | X          | X             | X            |

**U.S. EPA Label Information**

Difference between SDS and EPA Pesticide label

**16. OTHER INFORMATION**

Revision date 23-Jun-2026

**Revision Note**

No information available

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of SDS