



SECTION 1: Identification

1.1. Identification

Product form : Liquid
Product name : Nitrite Standard Solution

1.2. Recommended use and restrictions on use

Recommended use : A standard solution used for preparing dilutions for lab use and calibrations.
Restrictions on use : Product for industrial use only

1.3. Supplier

World Precision Instruments, LLC
175 Sarasota Center Boulevard, Sarasota, FL 34240
P: (941) 371-1003 · F: (941) 377-5428
www.wpiinc.com

1.4. Emergency telephone number

Emergency number : 1-941-371-1003

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification Aquatic Acute 3 H402

2.2. GHS Label elements, including precautionary statements

GHS US labeling

P264: Wash thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P273-Avoid release to the environment. P501-Dispose of contents/container to comply with local, state, and federal regulations.

2.3. Other hazards which do not result in classification

For full text of H-Statements see Section 16

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product Identifier | % | GHS-US classification |
|-------------------|--------------------|---------|--|
| Water | (CAS #) 7732-18-5 | >99 | Not Classified |
| Potassium Nitrite | (CAS #) 7758-09-0 | >0.0001 | Ox. Sol. 2, H272 Acute Tox. 3 (oral), H301 Aquatic Acute 1, H400 |

Occupational exposure limits, if available listed in Section 8.

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : If breathed in, move person to fresh air. If not breathing, give artificial respiration. In case of discomfort, seek medical attention.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.

First-aid measures after ingestion : Do NOT induce vomiting. Rinse mouth with water. Obtain emergency medical attention

4.2. Most important symptoms and effects (acute and delayed)

Not expected to present a significant hazard under anticipated conditions of normal use.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Prevent contamination of drains or waterways.

7357

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

: Sealed containers may rupture when heated.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Isolate area. Keep unnecessary and unprotected personnel from entering the area. Refer to Section 7, Handling, for additional precautionary measures. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

6.1.2. For emergency responders

Protective equipment : Keep unnecessary and unprotected personnel from entering the area. Refer to Section 7, Handling, for additional precautionary measures. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal protection".

6.2. Environmental precautions

Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. Notify authorities if liquid enters sewers or public waters. Avoid release into the environment.

6.3. Methods and material for containment and cleaning up

Small spills: : Contain spilled material if possible. Clay, soil or commercially available absorbents may be used. Collect in suitable and properly labelled containers.

Large spills: : Contain area to prevent spill from spreading. Minimize adverse effects on the environment. Clay, soil or commercially available absorbents may be used. Store away from other materials.

6.4. Reference to other sections

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for information on disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in the process area to prevent formation of vapour.

Hygiene measures : Do not smoke. Do not eat, drink or smoke when handling this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a cool place and refrigerate. Keep container tightly closed when not in use.

Incompatible products: : Strong reducing agents, strong acids

Incompatible materials: : Sources of ignition, direct sunlight

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits: : No data available.

Biological exposure indices (BEI): : No data available.

Additional exposure limits under the conditions of use: : No data available.

8.2. Exposure control

Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Not necessary under normal use

Respiratory protection:

If discomfort is experienced, use an approved air-purifying respirator.

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|---|
| Physical state | : Liquid |
| Color | : Clear |
| Odor | : Odorless |
| Odor threshold | : No data available |
| pH | : 6-7 |
| Melting point | : Not applicable |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : No data available |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Flammability | : Not applicable. |
| Vapor pressure | : No data available |
| Relative vapor density at 20°C | : No data available |
| Relative density | : No data available |
| Density | : No data available |
| Solubility | : Soluble in water; Potassium Nitrite solubility: 300g/100 mL |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Viscosity, dynamic | : No data available |
| Explosion limits | : No data available |
| Explosive properties | : No data available |
| Oxidizing properties | : No data available |
| VOC content | : No data available |
| Fat solubility (solvent-oil to be specified): | : No data available |
| Bulk density: | : No data available |
| Dissociation constant in water (pKa): | : No data available |
| Oxidation-reduction potential: | : No data available |

SECTION 10: Stability and reactivity

10.1. Reactivity

No specific test data related to reactivity available for this product or its ingredients.

10.2. Chemical stability

Stable under recommended conditions of storage. Unstable on exposure to heat.

10.3. Possibility of hazardous reactions

Hazardous polymerization is not expected to occur.

10.4. Conditions to avoid

Do not store next to heat source, in direct sunlight, or extremely high or low temperatures.

10.5. Incompatible materials

Strong acids, strong bases

10.6. Hazardous decomposition products

7357

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Nitrogen oxides

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|-----------------------------|------------------|
| Acute toxicity (oral) | : Not classified |
| Acute toxicity (dermal) | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

| Name | |
|-------------------|------------------------------------|
| Water (7732-18-5) | ≥ 90000 mg/kg |
| ATE US(oral) | 90000.00000000 mg/kg bodyweight |

| | |
|-----------------------------------|------------------|
| Skin corrosion/irritation | : Not classified |
| Serious eye damage/irritation | : Not classified |
| Respiratory or skin sensitization | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : Not classified |
| STOT-repeated exposure | : Not classified |
| Aspiration hazard | : Not classified |

SECTION 12: Ecological information

12.1. Toxicity

Ecology – water Harmful to aquatic life.

| Name | |
|-------------------------------|-----------------------|
| Potassium Nitrite (7758-09-0) | ≥ 90000 mg/kg |
| TLM fish 1 | 10 – 100,96 h; Pisces |
| TLM other aquatic organisms 1 | 10 – 100,96 h |

12.2. Persistence and degradability

| Name | |
|-------------------------------|------------------|
| Nitrite Standard Solution | |
| Persistence and degradability | Not established. |

| Name | |
|-------------------------------|------------------|
| Water (7732-18-5) | |
| Persistence and degradability | Not established. |

| Name | |
|-------------------------------|--|
| Potassium Nitrite (7758-09-0) | |
| Persistence and degradability | Biodegradability in water; no data available |

12.3. Bioaccumulative potential

| Name | |
|-------------------------------|------------------|
| Nitrite Standard Solution | |
| Persistence and degradability | Not established. |

| Name | |
|-------------------------------|------------------|
| Water (7732-18-5) | |
| Persistence and degradability | Not established. |

| Name | |
|-------------------------------|-----------------------------------|
| Potassium Nitrite (7758-09-0) | |
| Persistence and degradability | No bioaccumulation data available |

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

7357

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of in accordance with municipal, provincial and national regulations.
Product/packaging disposal: : Avoid release to the environment.

SECTION 14: Transport information

| | Land transport(ADR/RID) | Sea transport (IMDG) | Air transport (ICAO/IATA) |
|---|-------------------------|----------------------|---------------------------|
| UN-Number: | Not required | Not required | Not required |
| UN Proper shipping name: | Not required | Not required | Not required |
| Transport hazard class: | Not required | Not required | Not required |
| Packaging group: | Not required | Not required | Not required |
| Marine pollutant: | Not required | Not required | Not required |
| Special precautions for user: | Not required | Not required | Not required |
| Transport in bulk according to MARPOL 73/78 Annex II and the IBC code: | Not required | Not required | Not required |

SECTION 15: Regulatory information

15.1. US Federal regulations

No additional information available

15.2. International regulations

CANADA

No additional information available

EU-Regulations

Contains no REACH candidate substance

National regulations

No additional information available

15.3. US State regulations

No additional information available

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| | |
|---------------------|---|
| Acute Tox. 3 (oral) | Acute toxicity (oral), Category 3 |
| Aquatic Acute 3 | Hazardous to the aquatic environment-Acute Hazard, category 3 |
| Ox. Sol. 2 | Oxidizing Solids, Category 2 |
| H272 | May intensify fire; oxidizer |
| H301 | Toxic if swallowed |
| H400 | Very toxic to aquatic life |
| H402 | Harmful to aquatic life |

7357

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| | |
|-------|---|
| P 501 | Dispose of contents/container to comply with local, state and federal regulations |
|-------|---|

NFPA health hazard

NFPA fire hazard

NFPA reactivity

: 1 – Exposure could cause irritation but only minor residual injury even if no treatment is given.
: 0 – Materials that will not burn.
: 0 – Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS III Rating

Health

: 1 – Slight hazard; Irritation or minor reversible injury possible

Flammability

: 0 – Minimal Hazard

Physical

: 0 – Minimal Hazard

Personal Protection

: B

SDS US – World Precision Instruments LLC

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product regarding appropriate safety precautions. It does not represent any guarantee of the properties of the product. World Precision Instruments, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product. See www.wpiinc.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.