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

Product name: SODIUM NITRITE
Product No: S42
REACH Registration number: 01-2119488221-41
CAS-No: 7632-00-0
EU Index No: 007-010-00-4
EC No: 231-555-9

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2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture:
Classification (EC 1272/2008)
Physical and Chemical Hazards Ox. Sol. 2 - H272
Human health Acute Tox. 3 - H301; Eye Irrit. 2 - H319
Environment Aquatic Acute 1 - H400

Classification (67/548/EEC) T;R25. Xi;R36. O;R8. N;R50.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

2.2. Label elements
EC No. 231-555-9
Label In Accordance With (EC) No. 1272/2008

Signal Word Danger
Hazard Statements

H272 May intensify fire; oxidiser.
H301 Toxic if swallowed.
H319 Causes serious eye irritation.
H400 Very toxic to aquatic life.

Precautionary Statements

P273 Avoid release to the environment.
P220 Keep/Store away from clothing/combustible materials.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P313 Get medical advice/attention.
P405 Store locked up.

Supplementary Precautionary Statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P221 Take any precaution to avoid mixing with combustibles.
P264 Wash… thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P301+310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P321 Specific treatment (see … on this label).
P330 Rinse mouth.
P337 If eye irritation persists:
P370+378 In case of fire: Use … for extinction.
P391 Collect spillage.
P501 Dispose of contents/container to…

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Substances

Product name: SODIUM NITRITE
CAS-No: 7632-00-0
EU Index No: 007-010-00-4
EC No: 231-555-9
Composition Comments: Purity > 98%

4. FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation: Toxic by inhalation. May cause nausea, headache, dizziness and intoxication. Move the exposed person to fresh air at once. Get medical attention.

Ingestion: Toxic if swallowed. Ingestion may cause: Central and/or peripheral nervous system damage. Nausea, vomiting. Drink plenty of water. DO NOT INDUCE VOMITING! Get medical attention.

Skin contact: Toxic in contact with skin. Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention immediately.
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Eye contact: May cause severe irritation to eyes. Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention if any discomfort continues.

4.2. Most important symptoms and effects, both acute and delayed
- **Inhalation:** Symptoms may parallel ingestion. Pulmonary oedema.
- **Ingestion:** May cause nausea, headache, dizziness and intoxication. Methemoglobinemia.
- **Eye contact:** Causes serious eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed
No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media:
- **Extinguishing media:** Water.
- **Unsuitable extinguishing media:** Do not use ABC extinguishers containing nitrogen, due to risk of violent chemical reaction. Carbon dioxide (CO₂).

5.2. Special hazards arising from the substance or mixture:
- **Unusual Fire & Explosion Hazards:** May ignite other combustible materials.
- **Specific hazards:** In case of fire, toxic and corrosive gases may be formed. Keep away from combustible material.

5.3. Advice for fire fighters:
- **Protective equipment for fire fighters:** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures: Avoid generation and spreading of dust. Provide adequate ventilation. Warn everybody of potential hazards and evacuate if necessary. Do not smoke, use open fire or other sources of ignition. Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions: Do not allow to enter drains, sewers or watercourses. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up: Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like. Collect in containers and seal securely. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Flush area with plenty of water.

6.4. Reference to other sections: For waste disposal, see section 13.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling: Avoid spilling, skin and eye contact. Avoid handling which leads to dust formation. Provide good ventilation. Eliminate all sources of ignition.

7.2. Conditions for safe storage, including any incompatibilities: Store in locked, well ventilated room and isolated from acids. Oxidising material - Keep away from flammable and combustible materials. Store in tightly closed original container in a dry, cool and well-ventilated place. Storage Class Oxidiser storage.

[cont..]
8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters
Ingredient Comments: WEL = Workplace Exposure Limits

8.2. Exposure controls
Protective equipment:

Engineering measures: Provide adequate ventilation. Observe occupational exposure limits and minimize the risk of inhalation of dust.
Respiratory equipment: Use respiratory equipment with particle filter, type P3.
Hand protection: Use suitable protective gloves if risk of skin contact. Protective index 6 - EN 374
Eye protection: Wear approved safety goggles. Recommended: EN 166.
Other Protection: Provide eyewash, quick drench.
Skin protection: Wear appropriate clothing to prevent reasonably probable skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties
Appearance: Crystals.
Colour: Yellow.
Odour: Odourless.
Solubility: Soluble in water.
Melting point (°C): 281°C
Relative density: 1.35
pH-Value, Diluted Solution: 9
Decomposition temperature (°C): >320°C

9.2. Other information
Mol. Weight: 68.9

10. STABILITY AND REACTIVITY

10.1. Reactivity: No information available.
10.2. Chemical stability: Stable under the prescribed storage conditions.
10.3. Possibility of hazardous reactions: Isolate from incompatible materials.

[cont..]
11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects


Ingestion: Toxic if swallowed. May cause chemical burns in mouth and throat.

Skin contact: Toxic in contact with skin. May cause serious chemical burns to the skin.

Eye contact: May cause severe irritation to eyes. Risk of corneal damage. May cause chemical eye burns.

12. ECOLOGICAL INFORMATION

Ecotoxicity: Very toxic to aquatic life.

12.1. Toxicity: No information available.

12.2. Persistence and degradability:

Degradability: There are no data on the degradability of this product.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available on bioaccumulation.

12.4. Mobility in soil

Mobility: No information available.

12.5. Results of PBT and vPvB assessment

Not Classified as PBT/vPvB by current EU criteria.

12.6. Other adverse effects

None known.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods: Dispose of waste and residues in accordance with local authority requirements.

14. TRANSPORT INFORMATION

14.1. UN number

UN No. (ADR/RID/ADN) 1500
UN No. (IMDG) 1500
UN No. (ICAO) 1500

14.2. UN proper shipping name

Proper Shipping Name SODIUM NITRITE

14.3. Transport hazard class(es)

ADR/RID/ADN Class 5.1
ADR/RID/ADN Class 6.1
ADR Label No. 5.1 & 6.1
IMDG Class 5.1
IMDG Subsidiary risk 6.1
ICAO Class/Division 5.1
ICAO Subsidiary risk 6.1
14.4. Packing group

- ADR/RID/ADN Packing group: III
- IMDG Packing group: III
- ICAO Packing group: III

14.5. Environmental hazards:
- Environmentally Hazardous Substance/Marine Pollutant

14.6. Special precautions for user

- EMS: F-A, S-Q
- Emergency Action Code: 1Z
- Hazard No. (ADR): 56
- Tunnel Restriction Code: (E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Guidance Notes: Workplace Exposure Limits EH40.


Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.
16. OTHER INFORMATION

Legal disclaimer: The information contained in this SDS does not constitute a risk assessment, and should not replace the user’s own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.

Risk Phrases In Full
R8 Contact with combustible material may cause fire.
R36 Irritating to eyes.
R25 Toxic if swallowed.
R50 Very toxic to aquatic organisms.

Hazard Statements In Full
H272 May intensify fire; oxidiser.
H301 Toxic if swallowed.
H319 Causes serious eye irritation.
H400 Very toxic to aquatic life.