SAFETY DATA SHEET



SODIUM NITRITE

SECTION 1: Identification of the substance/mixture and of the company/undertaking Trade name:

| 1.1 Product identifier: | |
|-------------------------|------------------|
| CAS Number: | 7632-00-0 |
| EC number: | 231-555-9 |
| 1.2 SYNONYMS: | Sodium nitrite |
| | Nitrous acid |
| | sodium salt |
| | Sodium nitroxide |

SECTION 2: Hazards identification:

| 2.1 Classification of the | Classification according to |
|---------------------------|---------------------------------------------|
| substance or mixture: | Regulation (EC) No 1272/2008 The |
| | substance is classified according to |
| | the CLP regulation. |
| 2.2 Label elements: | Labelling according to Regulation |
| 2.2 Laber elements. | (EC) No 1272/2008 |
| | ` ' |
| | Oxidizing Solid (Category 3) |
| | Acute Toxicity, Oral (Category 3) |
| | Skin Irritation (Category 2) |
| | Eye Irritation (Category 2A) |
| | Specific Target Organ Toxicity - |
| | Single Exposure (Category 3) |
| | Carcinogenicity (Category 2) |
| Hazard Pictograms: | |
| | く!>く♡>く迄> |
| | |
| Signal Word: | Danger |
| Hazard statements: | H272: May intensify fire; oxidizer. |
| YIIII KI HEN | H301: Toxic if swallowed. |
| 10011 OIILMI | H315: Causes skin irritation. |
| | H319: Causes serious eye irritation. |
| | H335: May cause respiratory |
| | irritation. |
| | H351: Suspected of causing cancer. |
| | H400: Very toxic to aquatic life. |
| | TITOO. VETY COME to aquatic life. |
| T . | |



| | H410: Very toxic to aquatic life with |
|---------------------------|----------------------------------------------|
| | long-lasting effects |
| Precautionary Statements: | P210: Keep away from heat, hot |
| | surfaces, sparks, open flames, and |
| | other ignition sources. No smoking. |
| | P220: Keep/Store away from |
| -51 | clothing/combustible materials. |
| LOIL | P280: Wear protective gloves, |
| | protective clothing, eye protection, |
| | and face protection. |
| | P301 + P312: IF SWALLOWED: Call a |
| | POISON CENTER or doctor if you |
| | feel unwell. |
| | P302 + P352: IF ON SKIN: Wash with |
| | plenty of soap and water. |
| | P304 + P340: IF INHALED: Remove |
| | person to fresh air and keep |
| | comfortable for breathing. |
| | P305 + P351 + P338: IF IN EYES: |
| | Rinse cautiously with water for |
| | several minutes. Remove contact |
| | lenses if present and easy to do. |
| | Continue rinsing. |
| | P403 + P233: Store in a well- |
| | ventilated place. Keep container |
| | tightly closed. |
| | P405: Store locked up. |
| | P501: Dispose of contents/container |
| | in accordance with local/regional/ |
| | national/international regulations. |
| 2.3 Other hazards: | |
| Inhalation: | can cause respiratory irritation, |
| VOUD OUT A | leading to symptoms such as |
| YUUR CHEM | coughing, shortness of breath, and |
| 10011 OIILIVII | difficulty breathing. |
| Ingestion: | can be toxic, causing symptoms |
| | such as nausea, vomiting, dizziness, |
| | headache, and potentially leading to |
| | methemoglobinemia, which impairs |
| | the blood's ability to carry oxygen. |
| | |



| Skin Contact: | can cause irritation, resulting in |
|-----------------------------|---------------------------------------|
| | redness, itching, and potential |
| | inflammation. |
| Eye contact: | can cause serious irritation, leading |
| | to redness, tearing, and discomfort. |
| Chronic Exposure: | can potentially lead to long-term |
| | health effects, including an |
| 1011 | increased risk of cancer due to the |
| | formation of nitrosamines, as well as |
| | potential damage to the blood and |
| | respiratory system. |
| Aggravation of pre-existing | may aggravate pre-existing |
| conditions: | conditions such as respiratory |
| | disorders (e.g., asthma), blood |
| | disorders (e.g., |
| | methemoglobinemia), and |
| | cardiovascular diseases, as it can |
| | impair oxygen transport and irritate |
| | the respiratory system. |

SECTION 3: Composition/information on ingredients

| 3.1 Chemical characterisation: | Substances |
|--------------------------------|-------------------------------|
| CAS No: | Description: 7632-00-0 SODIUM |
| | NITRITE |
| Identification number(s): | EC number: 231-555-9 |

SECTION 4: First aid measures

| 4.1 Description of first aid | |
|------------------------------|---------------------------------------------------------------------------------------|
| measures | |
| | \cap \wedge \mid |
| General information: | UAL FANINEN |
| After inhalation: | If breathed in, move person into |
| | fresh air. If not breathing, give |
| | artificial respiration. Immediately |
| | administer a corticosteroid from a |
| | controlled/metered dose inhaler. |
| | Consult a physician. |



| After skin contact: | Remove contaminated clothing. Wash with soap and water. Consult a physician. |
|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| After eye contact: | Immediately flush eyes with plenty of water for at least 15 minutes. consult a physician. |
| After swallowing: | Rinse mouth with water. Immediately after ingestion. Never give anything by mouth to an unconscious person. Do not induce vomiting. Consult a physician. |
| 4.2 Most important symptoms and effects, both acute and delayed: | Acute exposure include acute toxicity (e.g., nausea, vomiting, dizziness, and headache) after ingestion, respiratory irritation after inhalation, skin and eye irritation, and delayed effects such as methemoglobinemia, which impairs oxygen delivery to tissues. |
| 4.3 Indication of any immediate medical attention and special treatment needed: | Treat symptomatically. |

SECTION 5: Firefighting measures

| 5.1 Extinguishing media: | Carbon dioxide. Water spray. |
|----------------------------------|--------------------------------------|
| | Alcohol-resistant foam. |
| 5.2 Special hazards arising from | Special hazards arising include its |
| the substance or mixture: | potential to release toxic nitrogen |
| | oxides (NOx) when heated, its |
| VOUD CHEMI | oxidizing nature that can intensify |
| YUUN UNEWI | fires, and the formation of |
| | carcinogenic nitrosamines when it |
| | reacts with amines, especially in |
| | food under high temperatures. |
| 5.3 Advice for firefighters: | Wear fully protective suit, safety |
| | glasses and respiratory device. Cool |
| | tanks/drums with water |
| | spray/remove them into safety. |



| 5.4 further information: no data available |
|---------------------------------------------------|
|---------------------------------------------------|

SECTION 6: Accidental release measures

| 6.1 Personal precautions, | Use personal protective |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| protective equipment and | equipment. |
| emergency procedures: | Avoid breathing vapors, mist or |
| | gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Avoid dust accumulation. Seek medical attention. |
| 6.2 Environmental precautions: | Do not enter this chemical into |
| | drains. |
| 6.3 Methods and material for | Take up spill into absorbent |
| containment and cleaning up: | material, e.g.: sand, earth, |
| | vermiculite, powdered limestone. |
| | Scoop absorbed substance into |
| | closing containers. Spill must not |
| | return in its original container. |
| | Clean contaminated surfaces with |
| | an excess of water. Wash clothing |
| | and equipment after handling. |

SECTION 7: Handling and storage

| 7.1 Precautions for safe handling: | For use in are with adequate |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| YOUR CHEMI | ventilation. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material Do not use in confined spaces. Electrostatic discharge protection. Minimize dust generation and accumulation. Avoid ingestion and inhalation. |



| 7.2 Conditions for safe storage, | Store in original containers. |
|----------------------------------|---------------------------------------|
| including any incompatibilities: | Keep containers securely sealed |
| | Store in a cool, dry, well-ventilated |
| | area. |
| | Store away from incompatible |
| FOTD | materials and foodstuff containers. |
| -511 | Protect containers against physical |
| | damage and check regularly for |
| | leaks. Store in a dry and dark area. |
| Requirements to be met by | Keep container tightly closed in a |
| storerooms and receptacles: | dry and well-ventilated place. |
| | Containers which are opened must |
| | be carefully resealed and kept |
| | upright to prevent leakage. |
| 7.3 Specific end uses: | no data available |

SECTION 8: Exposure controls/personal protection

| 8.1 Control parameters | |
|----------------------------------|------------------------------------|
| Additional information about | A system of local and general |
| design of technical facilities: | exhaust is recommended. |
| 8.2 Exposure controls | |
| Appropriate engineering controls | Handle in accordance with good |
| | industrial hygiene and safety |
| | practice. Wash hands before |
| | breaks and at the end of workday. |
| Personal protective equipment: | Dust respirator, protective masks, |
| | wearing anti chemical gloves, |
| | rubber gloves, etc. |
| General protective and hygienic | Eyes, body and hand protection, |
| measures: | maintain indoor air unobstructed. |
| VOUD OUEMI | Wear protective equipment. |
| YUHKLHEMI | Respiratory protection: Required. |
| 10011 OIILMI | O AL II AII I I I I |



| Protection of hands: | Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws. Wash and dry hands. |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Eye protection: Required |
| Protection of Body: | Complete suit protecting against chemicals, Flame retardant antistatic protective clothing. |

SECTION 9: Physical and chemical properties

| 9.1 Information on basic physical | |
|-----------------------------------|------------------------|
| and chemical properties | |
| General Information | |
| Appearance: Form: | Crystalline powder |
| Colour: | White to pale yellow |
| Odour: | Odourless |
| pH-value: | Alkaline |
| Melting point/Melting range: | 271°C |
| Boiling point/Boiling range: | Not applicable |
| Flammability (solid, gaseous): | Non-flammable |
| Ignition temperature: | Not applicable |
| Decomposition temperature: | 300°C |
| Self-igniting: | Not applicable |
| Flash point: | Not applicable |
| Danger of explosion: | Not applicable |
| Explosion limits: Lower: | Not applicable |
| Explosion limits: Upper: | Not applicable |
| Vapour pressure: | Not applicable |
| Density at 20 °C: | 2.17 g/cm ³ |
| Relative density: | 2.17 |
| Vapour density: | Not applicable |
| Evaporation rate: | Not applicable |



| Solubility in / Miscibility with- water at 20 °C: | Highly soluble |
|------------------------------------------------------|----------------|
| Partition coefficient:(n- octanol/water) | Not applicable |
| Viscosity: | Not applicable |

SECTION 10: Stability and reactivity

| 10.1 Reactivity | can react with a variety of substances, including flammable materials and reducing agents, potentially leading to dangerous reactions.ng fires as it is a strong oxidizer. |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10.2 Chemical stability | This chemical is stable under storage conditions. |
| 10.3 Possibility of hazardous reactions | Combustible materials, Reducing agents, acids, amines. |
| 10.4 Conditions to avoid | High temperature, moisture, Heat, sparks, or open flames. |
| 10.5 Incompatible materials | Flammable materials, strong reducing agents, acids, amines |
| 10.6 Hazardous decomposition products | Nitrogen oxides, oxygen. |

SECTION 11: Toxicological information

| 11.1 Information on toxicological effects | |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Acute Toxicity: YOUR GHEM | LD50 (Oral, Rat): no data available LD50 (Dermal, Rabbit): no data available LC50 (Inhalation Rat): no data available |
| Skin corrosion/Irritation: | Causes skin irritation. |
| Serious eye damage/irritation: | Causes eye irritation. |
| Respiratory damage/irritation: | Causes respiratory irritation upon inhalation. |



| Ingestion: | Can lead to nausea, vomiting, |
|----------------------------------|-----------------------------------|
| | dizziness, and |
| | methemoglobinemia. |
| Germ cell mutagenicity: | No data available |
| Carcinogenicity: | No data available |
| Reproductive toxicity: | No data available |
| Specific target organ toxicity - | Causes respiratory irritation and |
| single exposure: | methemoglobinemia. |
| Specific target organ toxicity - | can lead to blood disorders and |
| repeated exposure: | cancer risks. |
| Aspiration hazard: | No data available |
| Signs and Symptoms of Exposure: | Refer section 2.3 |
| 11.2 Additional toxicological | |
| information | |
| Biodegradability: | not biodegradable |

SECTION 12: Ecological information

| 12.1 Toxicity | LC50(fish):no data available |
|---------------------------------|----------------------------------|
| Aquatic toxicity: | EC50(daphnia): no data available |
| | EC50(algae): no data available |
| 12.2 Persistence and | Not biodegradable and persistent |
| degradability: | |
| 12.3 Bioaccumulative potential: | low bioaccumulative |
| 12.4 Mobility in soil: | High mobility |
| 12.5 Other adverse effects: | Contributes to nitrogen oxide |
| | pollution and acidification, |
| | harming aquatic ecosystems and |
| | contributing to air pollution. |

SECTION 13: Disposal considerations

| 13.1 Waste treatment methods | |
|-------------------------------|-------------------------------------|
| Uncleaned packaging | dispose of in accordance with local |
| Recommendation: | hazardous waste regulations |
| Recommended cleansing agents: | Water, sodium bicarbonate, Mild |
| | detergents. |



SECTION 14: Transport information

| 14.1 UN-Number · ADR, ADN, | 1500 |
|------------------------------------|--------------------------------|
| IMDG, IATA: | |
| 14.2 UN proper shipping name · | SODIUM NITRITE |
| ADR, ADN, IMDG, IATA: | |
| 14.3 Transport hazard class(es) · | 5.1 |
| ADR, ADN, IMDG, IATA : | 1076 |
| 14.4 Packing group · ADR, IMDG, | 3 |
| IATA: | |
| 14.5 Environmental hazards: | Yes, harmful for aquatic life. |
| 14.6 Special precautions for user: | Handle responsibly. |

SECTION 15: Regulatory information

| 15.1 Safety, health and | Directive 2012/18/EU, under that |
|---------------------------------------------------|-------------------------------------|
| environmental | this substance is not classified in |
| regulations/legislation specific | listed substance. |
| for the substance or mixture Directive 2012/18/EU | |
| Named dangerous substances: | This substance is not listed in the |
| | annex 1 to the directive. |
| 15.2 Chemical safety assessment: | Chemical assessment has been |
| | carried out under REACH |
| | regulation |

SECTION 16: Other information

The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.