



# Safety Data Sheet

<b>Section 1: SUBSTANCE IDENTIFICATION AND SUPPLIER</b>	
<b>Product name:</b>	<b>SODIUM NITRITE</b>
<b>Other Names:</b>	<b>Nitrous acid, sodium salt.</b>
<b>Chemical formula:</b>	<b>NaNO<sub>2</sub></b>
<b>Recommended Use:</b>	<b>Bleaching; as a preservative in food; as a rubber accelerator.</b>
<b>Company Identification:</b>	<b>UCN Chemical Limited</b>
<b>Address:</b>	<b>Korkut Reis Mah Lale cad 13/7 Çankaya Ankara</b>
<b>Customer Centre:</b>	<b>UCN Chemical Limited</b>
<b>Section 2: HAZARD IDENTIFICATION</b>	
<b>Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail; DANGEROUS GOODS.</b>	
<b>This material is hazardous according to Safe Work Australia; HAZARDOUS SUBSTANCE.</b>	
<b>Classification of the substance or mixture:</b>	
Oxidising solids - Category 3 Acute Oral Toxicity - Category 3 Eye Irritation - Category 2A Acute Aquatic Toxicity - Category 1	
<b>SIGNAL WORD:</b> DANGEROUS POISON	
<b>Hazard Statement(s):</b>	
H272 May intensify fire; oxidizer. H301 Toxic if swallowed. H319 Causes serious eye irritation. H400 Very toxic to aquatic life.	
<b>Precautionary Statement(s):</b>	

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## Prevention:

P102 Keep out of reach of children.  
 P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
 P220 Keep/Store away from clothing/incompatible materials/combustible materials.  
 P221 Take any precaution to avoid mixing with combustibles/incompatible materials.  
 P264 Wash hands thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.

## Response:

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
 P321 Specific treatment (see First Aid Measures on Safety Data Sheet).  
 P330 Rinse mouth.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
 Continue rinsing.  
 P337+P313 If eye irritation persists: Get medical advice/attention.  
 P370+P378 In case of fire: Use extinguishing media as outlined in Section 5 of this Safety Data Sheet to extinguish.  
 P391 Collect spillage.

## Storage:

P405 Store locked up.

## Disposal:

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

## Section 3: Composition Information

INGREDIENT	CAS No.	CONTENT
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Sodium nitrite	7632-00-0	>=99%
<b>Section 4: FIRST AID MEASURES</b>		
<b>Inhalation:</b>	Remove victim from area of exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. If patient finds breathing difficult and develops a bluish discoloration of the skin (which suggests a lack of oxygen in the blood - cyanosis), ensure airways are clear of any obstruction and have a qualified person give oxygen through a face mask. Apply artificial respiration if patient is not breathing. Seek immediate medical advice.	
<b>Ingestion:</b>	Immediately rinse mouth with water. If swallowed, give a glass of water to drink. If vomiting occurs give further water. Seek immediate medical assistance.	
<b>Skin:</b>	If skin contact occurs, remove contaminated clothing and wash skin with running water. If irritation occurs seek medical advice.	
<b>Eye:</b>	If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre or a doctor, or for at least 15 minutes.	
<b>Advice to Doctor:</b>		
<b>Section 5: FIREFIGHTING MEASURES</b>		
<b>Flash Point:</b>	Not applicable	
<b>Combustion Products:</b>	Not applicable	
<b>Extinguishing Media:</b>	Suitable Extinguishing Media: Not combustible, however, if material is involved in a fire use: Coarse water spray, fine water spray, normal foam, dry agent.	
<b>Unsuitable Extinguishing Media:</b>	ABC powder. Carbon dioxide	
<b>HAZCHEM Code:</b>	1Z	



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<b>Section 6: ACCIDENTAL RELEASE MEASURES</b>	
<b>Emergency procedures/Environmental precautions:</b>	Shut off all possible sources of ignition. Clear area of all unprotected personnel. If contamination of sewers or waterways has occurred advise local emergency services
<b>Personal precautions/Protective equipment/Methods and materials for containment and cleaning up:</b>	Wear protective equipment to prevent skin and eye contact and breathing in dust. Work up wind or increase ventilation. Cover with damp absorbent (inert material, sand or soil)
<b>Section 7: HANDLING AND STORAGE</b>	
<b>Handling:</b>	Avoid skin and eye contact and breathing in dust. Avoid handling which leads to dust formation. Keep out of reach of children. Take precautionary measures against static discharges.
<b>Storage:</b>	Store in a cool, dry, well ventilated place and out of direct sunlight. Protect from moisture. Do NOT store nor transport with ammonium salts. Store away from sources of heat or ignition. Store away from foodstuffs. Store away from acids. Store away from combustible materials. Store away from incompatible materials described in Section 10. Keep containers closed when not in use - check regularly for spills
<b>Other Information:</b>	
<b>Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION</b>	
<b>Exposure Limits:</b>	Lowest Published Lethal Dose LDL [Rat] - Route: Oral; Dose: 1389 mg/kg
<b>Protective Equipment:</b>	- The selection of PPE is dependant on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors. OVERALLS, SAFETY SHOES, CHEMICAL GOGGLES, GLOVES, DUST MASK.
<b>Engineering Controls:</b>	Ensure ventilation is adequate to maintain air concentrations below



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	Workplace Exposure Standards. If inhalation risk exists: Use with local exhaust ventilation or while wearing dust mask. Keep containers closed when not in use.
<b>Hygiene Precautions:</b>	Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.
<b>Section 9. PHYSICAL AND CHEMICAL PROPERTIES</b>	
<p>Physical state: Crystalline Solid Colour: White to Slightly Yellow Odour: Faint Molecular Formula: NaNO<sub>2</sub> Solubility: Soluble in water. Specific Gravity: 2.17 @20°C Relative Vapour Density (air=1): Not available Vapour Pressure (20 °C): Not available Flash Point (°C): Not available Flammability Limits (%): Not available Autoignition Temperature (°C): Not available Melting Point/Range (°C): 280 Decomposition Point (°C): &gt;320 pH: 8-9 (100 g/L, 20°C) Partition Coefficient: log Pow: -3.7 (n-octanol/water) (25°C)</p>	
<b>Section 10: STABILITY AND REACTIVITY</b>	
<b>Chemical Stability:</b>	Hygroscopic: absorbs moisture or water from surrounding air.
<b>Hazardous Decomposition Products:</b>	Oxides of nitrogen. Disodium oxide.
<b>Conditions to Avoid:</b>	Avoid exposure to heat. Avoid exposure to moisture.
<b>Incompatible materials:</b>	Incompatible with oxidising agents , reducing agents , acids , ammonium salts , amines , amine compounds , combustible materials , ammonium compounds , and cyanides .



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<b>Section 11: TOXICOLOGICAL INFORMATION</b>	
<b>ERMA Classification:</b>	
<b>Ingestion:</b>	Swallowing can result in nausea, vomiting, diarrhoea, and abdominal pain. There is a risk of damage to the blood (methemoglobinemia) after a single uptake.
<b>Inhalation:</b>	Breathing in dust may result in respiratory irritation. Breathing in vapour can result in headaches, dizziness, drowsiness, and possible nausea..
<b>Skin:</b>	Contact with skin may result in irritation.
<b>Eye:</b>	Eyes: May cause eye irritation.
<b>Chronic Effects:</b>	Available evidence from animal studies indicate that repeated or prolonged exposure to this material could result in effects on the blood . Under certain circumstances nitrosamines can form in contact with nitrosating agents. Some nitrosamines were found to cause cancer in animal experiments
<b>Other Information:</b>	No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label.
<b>Section 12: ECOLOGICAL INFORMATION</b>	
<b>ERMA Classification:</b>	
<b>Ecotoxicity:</b>	Avoid contaminating waterways  Persistence/degradability: Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.  Aquatic toxicity: Very toxic to aquatic organisms.  96hr LC50 (fish): 0.54-26.3 mg/L (Salmo gairdneri)



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## Section 13: DISPOSAL INFORMATION

<b>Disposal methods:</b>	Refer to Waste Management Authority. Dispose of material through a licensed waste contractor
<b>Container Disposal:</b>	

## Section 14: TRANSPORT INFORMATION

<b>UN Number:</b>	1500
<b>Transport Hazard Class:</b>	5.1 Oxidizing Agent
<b>Subrisk 1:</b>	6.1 Toxic
<b>UN Packing Group:</b>	III
<b>Proper Shipping Name or Technical Name::</b>	SODIUM NITRITE

### Marine Transport

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; DANGEROUS GOODS.

UN No: 1500  
Transport Hazard Class: 5.1 Oxidizing Agent  
Subrisk 1: 6.1 Toxic  
Packing Group: III  
Proper Shipping Name or  
Technical Name:  
SODIUM NITRITE  
IMDG EMS Fire: F-A  
IMDG EMS Spill: S-Q

### Air Transport

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; DANGEROUS GOODS.  
UN No: 1500



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Transport Hazard Class: 5.1 Oxidizing Agent  
Subrisk 1: 6.1 Toxic  
Packing Group: III  
Proper Shipping Name or  
Technical Name:  
SODIUM NITRITE

## Section 15: REGULATORY INFORMATION

### Classification:

This material is hazardous; HAZARDOUS SUBSTANCE.

### Classification of the substance or mixture:

Oxidising solids - Category 3  
Acute Oral Toxicity - Category 3  
Eye Irritation - Category 2A  
Acute Aquatic Toxicity - Category 1

### Hazard Statement(s):

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

### Poisons Schedule (SUSMP): S7 Dangerous Poison.

## Section 16: OTHER INFORMATION

Supplier Safety Data Sheet; 08/ 2014.  
Toxicity Profile - Nitrites (Sodium and Potassium) British Industrial Biological Research Association (BIBRA).

### This safety data sheet has been prepared by UCN Chemical Limited

### Reason(s) for Issue: 1<sup>st</sup> issue

This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Kemcore cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.

If clarification or further information is needed, the user should contact their Kemcore at the contact details on page 1.

UCN Chemical responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.