

Sodium nitrite

31443-500G

Version 2.0

Issuing date 11/08/2016

Revision Date 06/03/2022

Print Date 06/05/2023

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

Sodium nitrite

00000020901

:

:

Product information

- Trade name
- Number

use

- Recommended use of the : Laboratory chemicals
- chemical and restrictions on
 - Manufacturer or supplier's : Honeywell Specialty Chemicals Seelze details GmbH Wunstorfer Straße 40
 - Seelze, 30926 Germany
- For further information,
 :
 1-800-368-0050

 please contact:
 +1-231-726-3171

 (Monday-Friday, 9:00am-5:00pm)

 In case of emergency call
 :

 Medical:
 1-800-498-5701 or +1-303-389-1414

 :
 Transportation (CHEMTREC):

 527-3887
- In Japan: +(81)-345209637

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification of the	Oxidizing solids, Category 3
substance or mixture	Acute toxicity, Category 3, Oral
	Eye irritation, Category 2
	Short-term (acute) aquatic hazard, Category 1

GHS Label elements, including precautionary statements

Symbol(s)

Signal	word

Danger

SAFETY DATA SHEET	Honeywell Fluka ^{**}
Sodium nitrite	
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Hazard statements	: May intensify fire; oxidizer. Toxic if swallowed. Causes serious eye irritation. Very toxic to aquatic life.
Precautionary statements	<section-header><section-header><section-header><text><text><text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text></text></text></section-header></section-header></section-header>
3. COMPOSITION/INFORMATION	ON INGREDIENTS : NaNO2
Chemical nature	: Substance
Chemical name	CAS-No. Concentration
Sodium nitrite Sodium nitrite	7632-00-0 100.00 %
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4. FIRST AID MEASURES

General advice	 First aider needs to protect himself. Move out of dangerous area. Take off all contaminated clothing immediately.
Inhalation	: If breathed in, move person into fresh air. If symptoms persist, call a physician.
Skin contact	: After contact with skin, wash immediately with plenty of water. If symptoms persist, call a physician.
Eye contact	 Rinse thoroughly with plenty of water, also under the eyelids. Protect unharmed eye. If eye irritation persists, consult a specialist.
Ingestion	: When swallowed, allow water to be drunk. Call a physician immediately.
Notes to physician	: May cause cyanosis. May cause methemoglobinemia. Treat symptomatically.
5. FIREFIGHTING MEASURES	
Suitable extinguishing media	: Water spray Foam Carbon dioxide (CO2) Dry powder
Specific hazards during firefighting	 May intensify fire; oxidizer. In fires, the product supports combustion. In case of fire hazardous decomposition products may be produced such as: Sodium oxides Nitrogen oxides (NOx)
Special protective equipment for firefighters Further information	 Wear self-contained breathing apparatus and protective suit. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
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6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Wear personal protective equipment. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid dust formation. Do not swallow. Avoid breathing dust. Avoid contact with skin, eyes and clothing.
Environmental precautions	:	Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.
Methods and materials for	:	Use mechanical handling equipment.

Methods and materials for containment and cleaning up	:	Use mechanical handling equipment. Sweep up and shovel into suitable containers for disposal. Do not pick up with the help of saw-dust or other combustible substances. Dispose of in accordance with local regulations.
		Dispose of in accordance with local regulations.

7. HANDLING AND STORAGE

Handling

Precautions for safe handling	 Wear personal protective equipment. Use only in well-ventilated areas. Avoid dust formation. Wash thoroughly after handling. Do not swallow. Avoid breathing dust. Avoid contact with skin, eyes and clothing.
Advice on protection against fire and explosion	: Keep away from easily oxidizable materials. Keep away from combustible material.
Storage	
Conditions for safe storage, including any incompatibilities	: Store in original container. Keep container tightly closed in a dry and well-ventilated place.
Advice on common storage	 Do not store with combustible materials. Keep away from reducing agents. Do not store near acids.
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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters Contains no substances with occupational exposure limit values.

Appropriate engineering controls

Local exhaust

Individual protection measures, such as personal protective equipment

Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment.
Hand protection	: Latex gloves Gloves must be inspected prior to use. Replace when worn.
Eye protection	: Safety goggles
Skin and body protection	: Protective suit
Hygiene measures	 Keep working clothes separately. Wash hands before breaks and at the end of workday. Separate rooms are required for washing, showering and changing clothes.
Protective measures	 Ensure that eyewash stations and safety showers are close to the workstation location. Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment. Avoid breathing dust. Avoid contact with skin, eyes and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	crystalline
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- Colour : colourless to yellowish
- Odour

: odourless



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Odour Threshold	: Note: No data available
рН	: 8 - 9 at 100.00 g/l, 20 °C
Melting point/range	: 280 °C
Boiling point/boiling range	: Note: No data available
Flash point	: Note: Not applicable
Evaporation rate	: Note: No data available
Flammability	: The product is not flammable.
Lower explosion limit	: Note: No data available
Upper explosion limit	: Note: No data available
Vapour pressure	: Note: No data available
Vapour density	: Note: No data available
Density	: ca. 2.17 g/cm3 at 20 °C
Water solubility	: 820 g/l at 20 °C
Partition coefficient: n- octanol/water	: log Pow: -3.7 at 25 °C
Ignition temperature	: Note: Not applicable
Decomposition temperature	: > 320 °C Note: Decomposition temperature
Viscosity, dynamic	: Note: No data available
Viscosity, kinematic	: Note: No data available 6/12



Honeywell SAFETY DATA SHEET Fluka Sodium nitrite 31443-500G Version 2.0 Revision Date 06/03/2022 Print Date 06/05/2023 Issuing date 11/08/2016 Molecular weight : 69 g/mol : ca. 1,100 - 1,300 kg/m3 Bulk density **10. STABILITY AND REACTIVITY** Chemical stability : Stable under recommended storage conditions. Possibility of hazardous : Exothermic reaction with strong acids. reactions Conditions to avoid : Keep away from reducing agents. Avoid contact with combustible material (paper, wool, oil). Avoid dust formation. Protect from heat/overheating. : Combustible material Incompatible materials to Acids avoid Reducing agents Metals Amines Ammonium salts As oxidising agent, attacks organic substances such as wood, paper, fats. Hazardous decomposition : In case of fire hazardous decomposition products may be products produced such as: Sodium oxides Nitrogen oxides (NOx) **11. TOXICOLOGICAL INFORMATION** Information on likely routes of : Inhalation, Eye contact, Skin contact, Ingestion exposure Acute oral toxicity : Note: Classification based on Annex VI of regulation 1272/2008/EC.

Acute dermal toxicity : Note: No data available



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Version 2.0 Issuing date 11/08/2016 Revision Date 06/03/2022 Print Date 06/05/2023 Skin corrosion/irritation : Note: No data available Serious eye damage/eye : Note: No data available irritation Respiratory or skin : Note: No data available sensitisation : Species: Rat, male and female Repeated dose toxicity Application Route: Drinking Water Study Exposure time: 14 Weeks NOAEL (No observed adverse effect level): not obtained LOAEL (Lowest observed adverse effect level): 115 - 225 mg/kg/d : Note: Not classified due to data which are conclusive although Germ cell mutagenicity insufficient for classification. : Note: Not classified due to data which are conclusive although Carcinogenicity insufficient for classification. Further information : Note: May cause cyanosis. May cause methemoglobinemia. **12. ECOLOGICAL INFORMATION** Aquatic and ecotoxicity Toxicity to fish : flow-through test LC50: 0.54 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout)

	: NOEC: 21 mg/l Exposure time: 29 d Species: Cyprinus carpio (Carp) Method: OECD Test Guideline 210
Toxicity to daphnia and other	: static test
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aquatic inve	rtebrates	Expos Speci	: 15.4 mg/l sure time: 48 h es: Daphnia magna (Water flea) od: OECD Test Guideline 202	
Toxicity to a	lgae	Expos Speci	test D: > 100 mg/l sure time: 72 h es: Desmodesmus subspicatus (g od: OECD Test Guideline 201	reen algae)
Toxicity to b	acteria	Expos Speci	: 210 mg/l sure time: 180 min es: activated sludge od: OECD Test Guideline 209	
Persistence	and degradability	/		
Other adve	rse effects			
Additional ed information	cological	: Do no	ot flush into surface water or sanita	ary sewer system.
. DISPOSAL C	CONSIDERATION	S		
Disposal me	thods	: In acc	cordance with local and national re	egulations.
. TRANSPOR	FINFORMATION			
ADR UN/ID No. Description	of the goods	: UN 1 : SODI	500 UM NITRITE	
Class Packing gro Classificatio		: 5.1 : III : OT2		
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Hazard Identification Number Labels	: 56 : 5.1 (6.1)
UN/ID No.	: UN 1500
Description of the goods	: Sodium nitrite
Class	: 5.1
Packing group	:
Labels	: 5.1 (6.1)
Packing instruction (cargo aircraft)	: 563
Packing instruction	: 559
(passenger aircraft)	
Packing instruction	: Y546
(passenger aircraft)	
IMDG	
UN/ID No.	: UN 1500
	: SODIUM NITRITE
Description of the goods Class	: 5.1
	:
Packing group Labels	
EmS Number 1	: 5.1 (6.1) : F-A
EmS Number 2	: S-Q
	. 3-0
Marine pollutant	: yes

15. REGULATORY INFORMATION

National regulatory infor Vessel Safety Law JP VSL	 mation Oxidizing substances and organic peroxides (Article 2 and 3 of rules on shipping and storage of dangerous goods and its Attached Table 1)
Aviation Law JP AVL	: Oxidizing substances and organic peroxides (Article 194 of The Enforcement Rules of Aviation Law and its Attached Table 1)
Fire Service Law	: Group 1 Oxidizing solids 10/12



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Print Date 06/05/2023 Version 2.0 Issuing date 11/08/2016 Revision Date 06/03/2022 Nitrites Hazardous rank I Be careful with fire and shock Poisonous and Deleterious : Deleterious substance not for pharmaceutical use Substances Control Law 2 Listed Sodium nitrite 7632-00-0 Other international regulations **Notification status** US. Toxic Substances : On TSCA Inventory Control Act Australia. Industrial : On the inventory, or in compliance with the inventory Chemicals Act (AIIC), as amended Canada. Canadian : All components of this product are on the Canadian DSL **Environmental Protection Act** (CEPA). Domestic Substances List (DSL) Japan. Kashin-Hou Law List : On the inventory, or in compliance with the inventory Korea. Existing Chemicals : On the inventory, or in compliance with the inventory Inventory (KECI) Philippines. Inventory of : On the inventory, or in compliance with the inventory Chemicals and Chemical Substances (PICCS) China. Inventory of Existing : On the inventory, or in compliance with the inventory Chemical Substances (IECSC) New Zealand. Inventory of : On the inventory, or in compliance with the inventory Chemicals (NZIoC), as published by ERMA New Zealand Taiwan Chemical Substance : On the inventory, or in compliance with the inventory

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Inventory (TCSI)

16. OTHER INFORMATION

	HMIS III	NFPA
Health hazard	: 2*	2
Flammability	: 0	0
Physical Hazard	: 1	
Instability	:	1
Special hazard	:	OX

* - Chronic health hazard

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

Further information

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. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions. Previous Issue Date: 11/17/2017 Revision Date: 06/03/2022 Version 2.0 Issuing date 11/08/2016 Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group