

Sodium nitrite

31443-250G

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

Product information

Trade name : Sodium nitrite

Number : 00000020901

Recommended use of the chemical and restrictions on

use

Laboratory chemicals

Manufacturer or supplier's

details

Honeywell Specialty Chemicals Seelze

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): 1-800-424-9300 or +1-703-

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



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Version 2.0 Issuing date 11/08/2016 Revision Date 06/03/2022 Print Date 06/05/2023

Hazard statements : May intensify fire; oxidizer.

Toxic if swallowed.

Causes serious eye irritation. Very toxic to aquatic life.

Precautionary statements : Prevention:

Keep away from heat.

Keep/ Store away from clothing/ combustible materials. Take any precaution to avoid mixing with combustibles.

Wash skin thoroughly after handling.

Do not eat, drink or smoke when using this product.

Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face

protection.

Response:

IF SWALLOWED: Immediately call a POISON CENTER or

doctor/ physician. Rinse mouth.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

If eye irritation persists: Get medical advice/ attention.

In case of fire: Use dry sand, dry chemical or alcohol-resistant

foam for extinction. Collect spillage.

Storage:

Store locked up.

Disposal:

Dispose of contents/ container to an approved waste disposal

plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : NaNO2

Chemical nature : Substance

Chemical nameCAS-No.ConcentrationSodium nitrite7632-00-0100.00 %

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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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31443-250G

Version 2.0 Issuing date 11/08/2016 Revision Date 06/03/2022 Print Date 06/05/2023

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 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.

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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Version 2.0 Issuing date 11/08/2016 Revision Date 06/03/2022 Print Date 06/05/2023

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

Colour : colourless to yellowish

Odour : odourless



Sodium nitrite

31443-250G

Version 2.0 Issuing date 11/08/2016 Revision Date 06/03/2022 Print Date 06/05/2023

Odour Threshold : Note: No data available

pH : 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



Sodium nitrite

31443-250G

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

reactions

: Exothermic reaction with strong acids.

Conditions to avoid : Keep away from reducing agents.

Avoid contact with combustible material (paper, wool, oil).

Avoid dust formation.

Protect from heat/overheating.

Incompatible materials to

avoid

: Combustible material

Acids

Reducing agents

Metals **Amines**

Ammonium salts

As oxidising agent, attacks organic substances such as wood,

paper, fats.

Hazardous decomposition

products

: In case of fire hazardous decomposition products may be

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 inhalation toxicity : Note: Not classified due to data which are conclusive although

insufficient for classification.

Acute dermal toxicity : Note: No data available



Sodium nitrite

31443-250G

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

irritation

: Note: No data available

Respiratory or skin

sensitisation

: Note: No data available

Repeated dose toxicity : Species: Rat, male and female

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

Germ cell mutagenicity : Note: Not classified due to data which are conclusive although

insufficient for classification.

Carcinogenicity : Note: Not classified due to data which are conclusive although

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



Sodium nitrite

31443-250G

Version 2.0 Issuing date 11/08/2016 Revision Date 06/03/2022 Print Date 06/05/2023

aquatic invertebrates LC50: 15.4 mg/l

Exposure time: 48 h

Species: Daphnia magna (Water flea) Method: OECD Test Guideline 202

Toxicity to algae : static test

> ErC50: > 100 mg/l Exposure time: 72 h

Species: Desmodesmus subspicatus (green algae)

Method: OECD Test Guideline 201

Toxicity to bacteria : EC10: 210 mg/l

> Exposure time: 180 min Species: activated sludge

Method: OECD Test Guideline 209

Persistence and degradability

Other adverse effects

information

Additional ecological : Do not flush into surface water or sanitary sewer system.

13. DISPOSAL CONSIDERATIONS

Disposal methods : In accordance with local and national regulations.

14. TRANSPORT INFORMATION

ADR

UN/ID No. : UN 1500

Description of the goods : SODIUM NITRITE

: 5.1 Class Packing group
Classification Code : 111 : OT2



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Version 2.0 Issuing date 11/08/2016 Revision Date 06/03/2022 Print Date 06/05/2023

Hazard Identification Number : 56 Labels : 5.1 (6.1)

IATA

UN/ID No. : UN 1500 Description of the goods : Sodium nitrite

: 5.1 Class Packing group : 111 : 5.1 (6.1) Labels Packing instruction (cargo : 563

aircraft)

Packing instruction : 559

(passenger aircraft)

Packing instruction : Y546

(passenger aircraft)

IMDG

UN/ID No. : UN 1500

Description of the goods : SODIUM NITRITE

Class : 5.1 Packing group : ||| Labels : 5.1 (6.1) EmS Number 1 : F-A EmS Number 2 : S-Q

Marine pollutant : yes

15. REGULATORY INFORMATION

National regulatory information

Vessel Safety Law : Oxidizing substances and organic peroxides (Article 2 and 3 of JP VSL

rules on shipping and storage of dangerous goods and its

Attached Table 1)

: Oxidizing substances and organic peroxides (Article 194 of The Aviation Law

JP AVL Enforcement Rules of Aviation Law and its Attached Table 1)

Fire Service Law : Group 1 Oxidizing solids



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Version 2.0 Issuing date 11/08/2016 Revision Date 06/03/2022

Print Date 06/05/2023

Nitrites

Hazardous rank I

Be careful with fire and shock

Poisonous and Deleterious

Substances Control Law

: Deleterious substance not for pharmaceutical use

Listed

Sodium nitrite 7632-00-0

Other international regulations

Notification status

US. Toxic Substances

Control Act

: On TSCA Inventory

Australia. Industrial Chemicals Act (AIIC), as

amended

: On the inventory, or in compliance with the inventory

Canada. Canadian

Environmental Protection Act

(CEPA). Domestic

Substances List (DSL)

: All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List

: On the inventory, or in compliance with the inventory

Korea. Existing Chemicals Inventory (KECI)

: On the inventory, or in compliance with the inventory

Philippines. Inventory of Chemicals and Chemical Substances (PICCS)

: On the inventory, or in compliance with the inventory

China. Inventory of Existing

Chemical Substances

(IECSC)

: On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New

Zealand

: On the inventory, or in compliance with the inventory

Taiwan Chemical Substance : On the inventory, or in compliance with the inventory



Sodium nitrite

31443-250	G		
Version 2.0	Issuing date 11/08/2016	Revision Date 06/03/2022	Print Date 06/05/

version 2.0 Issuing date 17/06/2010 Revision Date 00/05/2022 Fillit Date 00/05/2023

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.

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Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group