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**SAFETY DATA SHEET**

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**1 Identification of the substance or preparation and the supplier**

Product Name: **DIESELGUARD NB**  
Datasheet Number: 571349 2.0.0  
Use of the substance/preparation: Cooling water treatment  
Product Part Number: 571349 (25 kg)

Name of Supplier: Unitor ASA  
Address of Supplier: Willem Barentszstraat 50  
3165 AB Rotterdam-Albrandswaard  
The Netherlands

Telephone: +31 10 4877 777  
Fax: +31 10 4877 888  
Responsible Person: Leen de Visser, Corporate Product Safety Manager, Tel.: +31 6 538 63736

Name of Manufacturer: UNITOR CHEMICALS AS  
Address of Manufacturer: P.O.Box 15  
3141 Kjøpmannskjær  
Norway.  
Telephone: +47 333 515 00

Emergency Telephone: NCEC: +44 1865 407333  
CHEMTREC (800) 424 9300  
CMA +1 703 527 3887  
Greece +30 1 7793777

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**2 Composition/information on ingredients**

Chemical Name	Concentration	CAS Number	EC Number	R Phrases	Symbols
Sodium nitrite	60-90	7632-00-0	231-555-9	8, 25, 50	T, O, N
Benzotiazol-2-tiol	0-1	149-30-4	205-736-8	43, 50/53	Xi, N
Orthoboric acid, sodium salt	10-30	13840-56-7	237-560-2	62, 63	Xn

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**3 Hazards identification**

- Odour: Odourless
- Appearance: powder, off-white, soluble in water
- Contact with eyes: Causes redness and irritation
- Contact with skin: Irritating to skin (R38)
- Inhalation: Causes irritation
- Ingestion: Toxic if swallowed (R25)
- Very toxic to aquatic organisms (R50)

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### 3 Hazards identification (....)



Toxic



Oxidising



Dangerous for the Environment

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### 4 First aid measures

#### Contact with skin

- Remove contaminated clothing
- Wash affected area with plenty of soap and water
- Contaminated clothing should be laundered before reuse
- When in doubt or symptoms persist, seek medical attention

#### Contact with eyes

- If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes
- Irrigate eyes thoroughly whilst lifting eyelids
- Obtain immediate medical attention

#### Ingestion

- Never make an unconscious person vomit or drink fluids
- Give plenty of water to drink
- Induce vomiting (only if patient is conscious)
- Seek immediate medical attention

#### Inhalation

- Inhalation is unlikely to occur
- Remove patient to fresh air
- When in doubt or symptoms persist, seek medical attention

#### General

- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) (S45)
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### 5 Fire-fighting measures

- Not flammable but will support combustion
  - Nitrogen oxides may be formed
  - Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions
  - Substance evolves toxic fumes, wear self-contained breathing apparatus
  - Prevent run off water from entering drains if possible
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### 6 Accidental release measures

#### Personal Precautions

- Wear protective clothing as per section 8
- Avoid raising dust

#### Environmental Precautions

- Do not allow to enter public sewers and watercourses
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## 6 Accidental release measures (....)

### Immediate Actions

- Use appropriate containment to avoid environmental contamination (S57)

### Clean Up Actions

- Sweep or shovel-up spillage and remove to a safe place
- Ventilate the area and wash spill site after material pick-up is complete

### Special Precautions

- Avoid raising dust
- Wear protective clothing as per section 8
- Avoid release to the environment. Refer to special instructions/Safety data sheets (S61)

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## 7 Handling and storage

### Handling

- Wear protective clothing as per section 8
- Avoid contact with skin and eyes (S24/25)
- Eyewash bottles should be available

### Storage

- Keep only in the original container in a cool, well ventilated place away from combustible material (S3/9/14/49)
- Keep away from acid (S14)

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## 8 Exposure controls and personal protection

### Exposure Limits

- There are no recommended or established controls for this product

### Exposure controls

- No special precautions are required for this product

### Occupational exposure controls

- Wear suitable protective clothing, including eye/face protection and gloves (plastic or rubber are recommended)
- Respiratory protection may be required under exceptional circumstances when excessive air contamination exists



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## 9 Physical and chemical properties

- Odour: Odourless
- Appearance: powder, off-white, soluble in water
- pH 9 at 0.2 % concentration
- Boiling point - not known, Decomposes
- Vapour pressure - not applicable

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## 9 Physical and chemical properties (....)

- Vapour density - not applicable
  - Melting point - not known
  - Water solubility ~ 100 g/l
  - Density 1200 kg/m<sup>3</sup>
  - Not flammable but will support combustion

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## 10 Stability and reactivity

- This article is considered stable under normal conditions
- Avoid overheating
- Incompatible with acid, Contact with acids liberates very toxic gas (R32)
- See Section 5

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## 11 Toxicological information

### Toxicological information

- LD50 (oral,rat) 85 mg/kg
- (NaNO<sub>2</sub>)
- Orthoboric acid, sodium salt :
- Possible risk of impaired fertility (R62)
- Possible risk of harm to the unborn child (R63)

### Inhalation

- Inhalation is unlikely to occur
- In cases of severe exposure, irritation may develop

### Contact with skin

- In cases of severe exposure, irritation may develop

### Contact with eyes

- May cause severe irritation

### Ingestion

- Toxic if swallowed (R25)
- The ingestion of significant quantities may cause damage to digestive system
- The ingestion of significant quantities may cause nausea/vomiting

### Carcinogenicity

- No evidence of carcinogenic effects

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## 12 Ecological information

### Ecotoxicity

- Very toxic to aquatic organisms (R50)
- May cause acute effects in the aquatic environment
- EC50 (daphnia) 12.5 mg/l (48 hr)
- (NaNO<sub>2</sub>)

### Mobility

- Completely soluble in water

## 12 Ecological information (...)

### Persistence and Biodegradability

- Its main ingredients will either dissolve rapidly and dissociate in water or are readily/inherently biodegradable.
- Degrades by hydrolysis

### Bioaccumulation Potential

- Bioaccumulation of the components in this product is insignificant.

### Other Adverse Effects

- No environmental problems are expected when the product is used / handled correctly.

In its intended use, the product will not be released into the environment.

## 13 Disposal considerations

### Classification

- EU Waste class: 06.03.08

### Disposal considerations

- Do not discharge into drains or the environment, dispose to an authorised waste collection point
- Disposal should be in accordance with local, state or national legislation

## 14 Transport information



Oxidizing Agent



Toxic

### UN

Proper Shipping Name:	Sodium nitrite	UN No.:	1500
Hazard Class:	5.1	Packing Group:	III

### Road/Rail (ADR/RID)

Proper Shipping Name:	Sodium nitrite	ADR UN No.:	1500
ADR Hazard Class:	5.1	Tremcard:	51S1500

### Sea (IMDG)

Proper Shipping Name:	Sodium nitrite	IMDG UN No.:	1500
IMDG Hazard Class.:	5.1	IMDG Pack Group.:	III
IMDG EmS:	F-A, S-Q	IMDG subrisk:	6.1
IMDG labels:	5.1 + 6	IMDG Flashpoint:	N/A

## 14 Transport information (....)

### Air (ICAO/IATA)

Proper Shipping Name:	Sodium nitrite	ICAO Un No.:	1500
ICAO Hazard Class.:	5.1	ICAO Packing Group.:	III
ICAO subrisk:	6.1	ICAO Labels:	5.1 + 6
ICAO Flashpoint:	N/A		

### DOT / CFR (US Department of Transportation)

DOT Proper Shipping Name:	Sodium nitrite	Hazardous Material:	Sodium nitrite
Hazard Class:	5.1	Identification Number:	UN 1500
Product RQ (lbs):	N/E	DOT subrisk:	6.1
DOT labels:	5.1 + 6	DOT Flashpoint:	N/A

## 15 Regulatory information



Oxidising



Toxic



Dangerous for the Environment

### Risk Phrases

- Contact with combustible material may cause fire (R8)
- Toxic if swallowed (R25)
- Contact with acids liberates toxic gas (R31)
- Very toxic to aquatic organisms (R50)
- Possible risk of impaired fertility (R62)
- Possible risk of harm to the unborn child (R63)

### Safety Phrases

- Keep away from acid (S14)
- Wear suitable protective clothing, eye/face protection and gloves (S36/37/39)
- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) (S45)
- Avoid release to the environment. Refer to special instructions/Safety data sheets (S61)

## 16 Other information

(R25: Toxic if swallowed. R43: May cause sensitisation by skin contact. R50: Very toxic to aquatic organisms. R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R62: Possible risk of impaired fertility. R63: Possible risk of harm to the unborn child. R8: Contact with combustible material may cause fire.)

The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents

The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product's properties

**16 Other information (...)**

The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other application(s) without seeking advice from manufacturer

This Safety Data Sheet is provided in compliance with The Dangerous Substances Directive (67/548/EEC)

This Safety Data Sheet is provided in compliance with The Dangerous Preparations Directive (88/379/EEC)

This Safety Data Sheet is provided in compliance with The Safety Data Sheets Directive (2001/58EC)