

SAFETY DATA SHEET

1 Identification of the substance or preparation and of the company/undertaking

Product Name:	DIESELGUARD NB
Datasheet Number:	571349 13. 0. 0
Use of the substance/preparation:	Cooling water treatment
Product Part Number:	571349 (25 kg)
Head Office::	Wilhelmsen Ships Service AS
address:	Strandveien 20, N1324 Lysaker, Norway, Tel: (+47) 67 58 45 50
Name of Supplier:	Wilhelmsen Ships Service AS
Address of Supplier:	Willem Barentszstraat 50 3165AB Rotterdam
	The Netherlands
Telephone:	+31 10 4877 777
Fax:	+31 10 4877 888
Responsible Person:	Patrick Rijdsdijk, Product HSE Manager, Tel.:+31 6 349 440 35
Email:	Patrick.Rijdsdijk@Wilhelmsen.com
Emergency Telephone:	**ONLY TO BE USED IN CASE OF AN INCIDENT** NCEC: +44 1865 407333, CHEMTREC (800) 424 9300 American Chemistry Council +1 703 527 3887, Greece +30 210 7793777

2 Hazards identification

Toxic



Oxidising



Dangerous for the Environment

- Odour: Odourless
- Appearance: powder, off-white, soluble in water
- Contact with eyes: Causes redness and irritation
- Contact with skin: May cause redness and irritation
- Inhalation: Causes irritation

Classification of the substance or mixture

- Council Directive 1999/45/EEC Classification, packing and labelling of dangerous preparations.
- Contains benzothiazole-2-thiol. May produce an allergic reaction.

Risk Phrases

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

Safety Phrases

- 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)

3 Composition/information on ingredients

Chemical Name	Concentration	CAS Number	EC Number	R/H Phrases*	Symbols
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3 Composition/information on ingredients (....)

Sodium nitrite	60-90%	7632-00-0	231-555-9	R8, 25, 50	T, O, N
Benzotiazol-2-tiol	0-1%	149-30-4	205-736-8	R43, 50/53	Xi, N
Sodiumtetraborate	10-30%	1330-43-4	215-540-4	R62, 63	Xn

*See Section 16

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, Decomposition products may include toxic fumes
 - Oxidising agent, Contact with other material may cause fire, May accelerate combustion
 - Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions
 - In the event of an adjacent fire, cool containers with water spray
 - Prevent run off water from entering drains if possible
 - Smoke from fires is toxic. Take precautions to protect personnel from exposure
 - Smoke from fires is corrosive. Take precautions to protect personnel from exposure
 - Wear chemical protection suit and positive-pressure breathing apparatus
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6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

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

Environmental Precautions

- Do not allow to enter public sewers and watercourses
- Contain spillage by any means possible
- If contamination of drainage systems or water courses is unavoidable, immediately inform appropriate authorities

Methods and material for containment and cleaning up

- Sweep or shovel-up spillage and remove to a safe place
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6 Accidental release measures (....)

- Ventilate the area and wash spill site after material pick-up is complete
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7 Handling and storage

Precautions for safe handling

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

Conditions for safe storage, including any incompatibilities

- 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/personal protection

Control parameters

- There are no recommended or established controls for this product

Exposure controls

- Ensure adequate ventilation

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



Gloves



Goggles



Suit



No Smoking

9 Physical and chemical properties

- Odour: Odourless
 - Appearance: powder, off-white, soluble in water
 - Completely soluble in water
 - Density 1 g/cm³
 - Not flammable but will support combustion
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10 Stability and reactivity

- This article is considered stable under normal conditions
 - Avoid overheating, Avoid contact with acid, Avoid contact with combustible material, Avoid contact with moisture
 - Incompatible with acid, Incompatible with combustible material, Contact with acids liberates toxic gas (R31), Contact with amines liberates toxic gas
 - See Section 5
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11 Toxicological information

Information on toxicological effects

- LD50 (oral,rat) (Sodiumnitrite) 85-180 mg/kg

Inhalation

- Inhalation is unlikely to occur
 - In cases of severe exposure, irritation may develop
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11 Toxicological information (....)

Contact with skin

- In cases of severe exposure, irritation may develop
- Contains Benzotiazol-2-tiol. May produce an allergic reaction.

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

- This product contains components which are classified in the EU as dangerous for the environment.
- Very toxic to aquatic organisms (R50)
- May cause acute effects in the aquatic environment
- LC50 (fish) Acute: (Sodiumnitrite) 0,56 - 1.78 mg/l (96 hr)
- EC50 (daphnia) Acute: (Sodiumnitrite) 12.5 - 100 mg/l (48 hr)
- LC50 (fish) Acute: (Sodiumtetraborate) 650 mg/l (96 hr)
- LC50 (fish) Acute: (Benzothiazol-2-thiol) 1,5 mg/l (96 hr)

Persistence and degradability

- 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.

Mobility in soil

- Completely soluble in water

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.
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13 Disposal considerations

Waste treatment methods

- 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

Classification

- EU Waste class: 06.03.08
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14 Transport information



Oxidizing Agent



Toxic

Proper Shipping Name: Sodium nitrite

14 Transport information (....)

Road/Rail (ADR/RID)

Proper Shipping Name:	Sodium nitrite		
ADR UN No.:	UN1500	ADR Hazard Class:	5.1
ADR Packing Group:	III	ADR subrisk:	6.1
ADR Flashpoint:	-		

Sea (IMDG)

Proper Shipping Name:	Sodium nitrite		
IMDG UN No.:	UN1500	IMDG Hazard Class.:	5.1
IMDG Pack Group.:	III	IMDG EmS:	F-A, S-Q
IMDG subrisk:	6.1	IMDG Flashpoint:	-

Air (ICAO/IATA)

Proper Shipping Name:	Sodium nitrite		
ICAO Un No.:	UN1500	ICAO Hazard Class.:	5.1
ICAO Packing Group.:	III	ICAO subrisk:	6.1
ICAO Flashpoint:	-		

DOT / CFR (US Department of Transportation)

DOT Proper Shipping Name:	Sodium nitrite		
Hazardous Material:	Sodium nitrite		
Hazard Class:	5.1	Identification Number:	UN1500
Product RQ (lbs):	5000	DOT subrisk:	6.1
DOT Flashpoint:	-		

15 Regulatory information

Classification and labelling

- Council Directive 1999/45/EEC Classification, packing and labelling of dangerous preparations.
- SUBSTANCES OF VERY HIGH CONCERN (SVHC) ACCORDING TO REACH, ARTICLE 57: CAS:1330-43-4 (Sodiumtetraborate)

Safety, health and environmental regulations/legislation specific for the substance or mixture

- This Safety Data Sheet is provided in compliance with The Dangerous Substances Directive (67/548/EEC)
- This Safety Data Sheet has been prepared in accordance with article 31 and annex II in REACH and Directive 453/2010/EU.
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- Contains benzothiazole-2-thiol. May produce an allergic reaction.

16 Other information

Text of R and S phrase codes used in this safety data sheet:- 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