

SAFETY DATA SHEET

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

1.1 Product identifier

Product Name: BIOCONTROL MAR 71
Datasheet Number: 571257-r 2. 0. 0
Product Part Number: 571257 (25 liter)
Part of: Wilhelmsen Ships Service AS
Head Office: Strandveien 20, N1324 Lysaker, Norway, Tel: (+47) 67 58 45 50

1.2 Relevant identified uses of the substance or mixture and uses advised against

Fuel treatment, Pre combustion treatment, Biocide

1.3 Details of the supplier of the safety data sheet

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

1.4 Emergency telephone number

****ONL 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

Australia: +61 3 9630 0998

2 Hazards identification

2.1 Classification of the substance or mixture

- Council Directive 1999/45/EEC Classification, packing and labelling of dangerous preparations.
- This Safety Data Sheet is provided in compliance with The Dangerous Substances Directive (67/548/EEC)
- Regulations 1272/2008/EEC. Classification, labeling and packing of dangerous substances and preparations

2.2 Label elements



Corrosive



Dangerous for the Environment

- Contains: Naphtha (petroleum), hydrodesulfurized heavy - Kerosine, unspecified - N,N-Methylene-bis(5-methyl-oxazolidine)

2 Hazards identification (....)

Risk Phrases

- Repeated exposure may cause skin dryness or cracking (R66)
- Harmful: may cause lung damage if swallowed (R65)
- Causes burns (R34)
- Harmful in contact with skin and if swallowed (R21/22)
- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment (R51/53)

Safety Phrases

- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice (S26)
- This material and its container must be disposed of as hazardous waste (S60)
- 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)

2.3 Other hazards

- Odour: Strong smell of amine.
- Appearance: Liquid, pale yellow, partly soluble in water
- Contact with eyes: Prolonged skin or eye contact may cause chemical burns
- Inhalation: In cases of severe exposure, anaesthesia may develop, May cause chronic pneumonitis
- Ingestion: Not regarded as a potential route of exposure., The ingestion of significant quantities may cause damage to lungs

3 Composition/information on ingredients

3.1 Mixtures

Chemical Name	Concentration	CAS Number	EC Number	R/H Phrases*	Symbols
Naphtha (petroleum), hydrodesulfurized heavy	30-60%	64742-82-1	265-185-4	R65, R66	Xn
Kerosine, unspecified	30-60%	64742-94-5	265-198-5	R65, R66, R51, R53	Xn, N
N,N-Methylene-bis-(5-methyl-oxazolidine)	10-30%	66204-44-2	266-235-8	R34, R21/22, R52	C

*See Section 16

4 First aid measures

4.1 Description of first aid measures

- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- Contaminated clothing should be laundered before reuse
- When in doubt or symptoms persist, seek medical attention
-
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes
- Irrigate eyes thoroughly whilst lifting eyelids

4 First aid measures (....)

- Seek immediate medical attention
-
- IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
- Do not induce vomiting because of risk of aspiration into the lungs. If aspiration is suspected obtain immediate medical attention
- If vomiting occurs turn patient on side
- Give 200-300mls (half pint) water to drink
- Obtain immediate medical attention
-
- IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.
- When in doubt or symptoms persist, seek medical attention

4.2 Most important symptoms and effects, both acute and delayed

- Inhalation of solvent vapours may give rise to nausea, headaches and dizziness
- Prolonged skin or eye contact may cause chemical burns
- The ingestion of significant quantities may cause damage to lungs

4.3 Indication of immediate medical attention and special treatment needed

5 Fire-fighting measures

5.1 Extinguishing media

- In case of fire use water spray or fog, alcohol resistant foam, dry chemical or carbon dioxide (S43)

5.2 Special hazards arising from the substance or mixture

- Smoke from fires is toxic. Take precautions to protect personnel from exposure
- Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback

5.3 Advice for firefighters

- Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback
 - Prevent run off water from entering drains if possible
 - Wear chemical protection suit and positive-pressure breathing apparatus
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6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Wear protective clothing as per section 8

6.2 Environmental Precautions

- Do not flush spilt material into any public water system
- Use appropriate containment to avoid environmental contamination (S57)
- Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback

6.3 Methods and material for containment and cleaning up

- Absorb spillage in inert material and shovel up
- Ventilate the area and wash spill site after material pick-up is complete

6.4 Reference to other sections

7 Handling and storage

7.1 Precautions for safe handling

- Avoid contact with skin and eyes (S24/25)
- Eyewash bottles should be available
- See Section 8

7.2 Conditions for safe storage, including any incompatibilities

- Keep only in the original container in a cool, well ventilated place (S3/9/49)
- Keep container tightly closed (S7)
- Keep away from open flames, hot surfaces and sources of ignition.

7.3 Specific end use(s)

8 Exposure controls/personal protection

8.1 Control parameters

- Naphtha (petroleum),hydrodesulfurized heavy
TLV (TWA) 275 mg/m3 ()
- Kerosine, unspecified
TLV (TWA) 120 mg/m3 ()

8.2 Exposure controls

- The undiluted product must not be used in a confined space without good ventilation

Occupational exposure controls

- Respiratory protection may be required under exceptional circumstances when excessive air contamination exists
- Wear suitable respiratory protection. Gas cartridge (organic substances).
- Wear suitable protective clothing, including eye/face protection and gloves (neoprene or nitrile are recommended)



Gloves



Suit



Goggles



No Smoking

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Odour: Strong smell of amine.
- Appearance: Liquid, pale yellow, partly soluble in water
- pH - not applicable
- Boiling point 185 °C to 210 °C at 760 mm /Hg
- Vapour density (air = 1) >1
- Melting point - not known
- Partially soluble in water
- Density 0,875 - 0,895 g/cm3 at 20 deg C
- Flash point >62 deg C (CC)
- Auto-ignition point 230 deg C
- Lower explosive limit 0.6 % (in air) Upper explosive limit 6 % (in air)

9 Physical and chemical properties (....)

9.2 Other information

- None
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10 Stability and reactivity

10.1 Reactivity

- This article is considered stable under normal conditions

10.2 Chemical stability

- This article is considered stable under normal conditions

10.3 Possibility of hazardous reactions

- No hazardous reactions known if used for its intended purpose

10.4 Conditions to avoid

- Keep away from naked flames, incandescent or hot surfaces

10.5 Incompatible materials

- None

10.6 Hazardous Decomposition Products

- Decomposition products may include nitrogen and carbon oxides
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11 Toxicological information

11.1 Information on toxicological effects

- LD50 (oral, rat) 96 hours (Oxazolidine) 900 mg/kg
- LD50 (oral, rat) 96 hours (Solvent naphta) >100 mg/kg
- LD50 (oral, rat) 96 hours (Kerosine) 1-10 mg/kg

Inhalation

- Inhalation of solvent vapours may give rise to nausea, headaches and dizziness
- In cases of severe exposure, burning sensation may develop

Contact with skin

- May cause redness and irritation
- Prolonged skin or eye contact may cause chemical burns

Contact with eyes

- Prolonged skin or eye contact may cause chemical burns

Ingestion

- The ingestion of significant quantities may cause damage to lungs

Carcinogenicity

- No evidence of carcinogenic effects
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12 Ecological information

12.1 Toxicity

- LC50 (fish) (Oxazolidine) 57,7 mg/l (96 hr)
 - EC50 (daphnia) (Oxazolidine) 37,9 mg/l (48 hr)
-

12 Ecological information (...)

- IC50 (algae) (Oxazolidine) 5,7 mg/l (72 hr)
- LC50 (fish) (estimated Kerosine) 1-10 mg/l (96 hr)
- LC50 (fish) (Naphta) 10-100 mg/l (96 hr)

12.2 Persistence and degradability

- Most components in this product are not readily biodegradable.

12.3 Bioaccumulation Potential

- Hydrocarbon solvents have the potential to bioaccumulate.

12.4 Mobility in soil

- Partially soluble in water.

12.5 Results of PBT and vPvB assessment

12.6 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

13.1 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

- This material and/or its container must be disposed of as hazardous waste
 - EU Waste class: 07.01.04
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14 Transport information



Dangerous Substance



Marine Pollutant

14.1 UN Number

- UN3082

14.2 UN Proper Shipping Name

- Environmentally hazardous substance, liquid, n.o.s. (Alkyl (C3-C8) Benzenes mixture)

14.3 Transport hazard class(es)

- 9

14.4 Packing group

- III

14.5 Environmental hazards

- Marine pollutant

14.6 Special precautions for user

- No special precautions are required for this product
 - Normally supplied/transported in steel drums
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14 Transport information (...)

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

- Not applicable

Other information

Road/Rail (ADR/RID)

Proper Shipping Name:	Environmentally hazardous substance, liquid, n.o.s. (Alkyl (C3-C8) Benzenes mixture)		
ADR UN No.:	UN3082	ADR Hazard Class:	9
ADR Packing Group:	III	ADR subrisk:	-
ADR Flashpoint:	>62C		

Sea (IMDG)

Proper Shipping Name:	Environmentally hazardous substance, liquid, n.o.s. (Alkyl (C3-C8) Benzenes mixture)		
IMDG UN No.:	UN3082	IMDG Hazard Class.:	9
IMDG Pack Group.:	III	IMDG EmS:	F-A, S-F
IMDG subrisk:	-	IMDG Flashpoint:	>62C

Air (ICAO/IATA)

Proper Shipping Name:	Environmentally hazardous substance, liquid, n.o.s. (Alkyl (C3-C8) Benzenes mixture)		
ICAO Un No.:	UN3082	ICAO Hazard Class.:	9
ICAO Packing Group.:	III	ICAO subrisk:	-
ICAO Flashpoint:	>62C		

DOT / CFR (US Department of Transportation)

DOT Proper Shipping Name:	Environmentally hazardous substance, liquid, n.o.s. (Alkyl (C3-C8) Benzenes mixture)		
Hazardous Material:	(Alkyl (C3-C8) Benzenes)		
Hazard Class:	9	Identification Number:	UN3082
Product RQ (lbs):	-	DOT subrisk:	-
DOT Flashpoint:	>62C		

15 Regulatory information

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

- This Safety Data Sheet has been prepared in accordance with article 31 and annex II in REACH and Directive 453/2010/EU.

15.2 Chemical Safety Assessment

None

16 Other information

Text of R and S phrase codes used in this safety data sheet:- R21/22: Harmful in contact with skin and if swallowed; R34: Causes burns; R51: Toxic to aquatic organisms; R52: Harmful to aquatic organisms; R53: May cause long term adverse effects in the aquatic environment; R65: Harmful: may cause lung damage if swallowed; R66: Repeated exposure may cause skin dryness or cracking.

16 Other information (....)

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

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

OTHER CONTACT INFORMATION MAJOR CHEMICAL OFFICES

For addresses of other Wilhelmsen Ships Service offices, please refer to www.wilhelmsen.com/shipsservice

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