
SAFETY DATA SHEET

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

1.1 Product identifier

- Product Name: BIOCONTROL MAR 71
- Product Part Number: 571257 (25 liter)
- Datasheet Number: 571257-r

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

- Use of the substance/preparation:

Fuel oil treatment. Diesel - biocide

1.3 Details of the supplier of the safety data sheet

Name of Supplier:

Head Office:

Wilhelmsen Ships Service AS
Strandveien 20, N1324 Lysaker,
Norway Tel: (47) 6349 440 35

Supplier:

Wilhelmsen Ships Service AS
Willem Barentszstraat 50
3165AB Rotterdam
Telephone: +31 4877 777
Fax: +31 4877 888
The Netherlands

Other suppliers SEE SECTION 16!!!

For quotations contact your local Customer Services

-
- Responsible Person: Product HSE Manager,
- Email: Email: WSS.GLOBAL.SDSINFO@wilhelmsen.com
- Telephone: Tel.: +31 10 4877775

1.4 Emergency telephone number

Emergency Telephone: -ONLY TO BE USED IN CASE OF AN INCIDENTNCEC:+

44 1865 407333, CHEMTREC (800) 424 9300

American Chemistry Council +1 703 527 3887,

Greece +30 210 7793777Australia: +61 3 9630 0998

Giftinformasjonsentralen in Norway Tel.: +47 22591300

Wilhelmsen Ships Service, Melbourne, AUSTRALIA Emergency 24hrs: +61 3 9630 0998

FOR QUOTATIONS PLEASE CONTACT YOUR LOCAL CUSTOMER SERVICES

SECTION 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)
- Symbols: C, N
- Harmful: may cause lung damage if swallowed (R65)
- Repeated exposure may cause skin dryness or cracking (R66)
- Causes burns (R34)
- Harmful in contact with skin and if swallowed (R21/22)

SECTION 2 Hazards identification (....)

- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment (R51/53)
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- Regulations 1272/2008/EEC. Classification, labeling and packing of dangerous substances and preparations
- Symbols: GHS08
- Signal Word: Danger
- Asp. Tox. 1
- Skin Corr. 1C
- Acute Tox. 4
- Aquatic Chronic 2
- May be fatal if swallowed and enters airways (H304).
- Repeated exposure may cause skin dryness or cracking (EUH066).
- Causes severe skin burns and eye damage (H314).
- Harmful if swallowed (H302).
- Harmful if inhaled (H332).
- Toxic to aquatic life with long lasting effects (H411).

2.2 Label elements

- Signal Word: Danger
- Asp. Tox. 1
- Skin Corr. 1C
- Acute Tox. 4
- Aquatic Chronic 2
-
- Contains:
- N-N-Methylene-bis(5-methyl-oxazolidine)
- Hydrocarbones, C10, aromatics, < 1% naphtalene
- Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)
-
- Hazard phrases
 - May be fatal if swallowed and enters airways (H304).
 - Repeated exposure may cause skin dryness or cracking (EUH066).
 - Causes severe skin burns and eye damage (H314).
 - Harmful if swallowed (H302).
 - Harmful if inhaled (H332).
 - Toxic to aquatic life with long lasting effects (H411).
- Precautionary Phrases
 - Avoid breathing dust/fume/gas/mist/vapours/spray (P261).
 - Wear protective gloves/protective clothing/eye protection/face protection (P280).
 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting (P301+P330+P331).
 - Immediately call a POISON CENTER or doctor/physician (P310).
 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P340).
 - Dispose of contents/container to an authorised waste collection point (P501)

2.3 Other hazards

- Not applicable
- Not a PBT according to REACH Annex XIII
- Odour: Strong smell of amine.
- Appearance: Liquid, pale yellow, partly soluble in water

SECTION 3 Composition/information on ingredients**3.1 Mixtures**

- N-N-Methylene-bis(5-methyl-oxazolidine)
Concentration: 10-30%
CAS Number: 66204-44-2
EC Number: 266-235-8
R/H Phrases: R34, R20/22, R52 - H302, H332, H314
Symbols: C, GHS07, GHS05
Categories: Acute Tox. 4, Skin Corr. 1C
- Hydrocarbones, C10, aromatics, < 1% naphthalene
Concentration: 30-60%
CAS Number: Not applicable
EC Number: 918-811-1
R/H Phrases: R65, R66,
R51/53 - EUH066, H411, H304, H336
Symbols: Xn, N, GHS07, GHS09, GHS08
Categories: Aquatic Chronic 2, Asp. Tox. 1, STOT SE 3
REACH REG. NO: 01-21194635 83-34-000
- Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)
Concentration: 30-60%
CAS Number: Not applicable
EC Number: 919-164-8
R/H Phrases: R65, R66 - H304, EUH066, H412
R52
Symbols: Xn, GHS08
Categories: Asp. Tox. 1, Aquatic Chronic 3
REACH REG. NO: 01-21194739 77-17-0004

3.2 Composition

- Composition comments: The hydrocarbon solvent contains < 0,1 %- weight of benzene 0,1 - <1% Naftalene; means that this product is not carcinogenic.
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SECTION 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 (P303+P361+P353).
- 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 (P305+P351+P338).
- If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes
- Irrigate eyes thoroughly whilst lifting eyelids
- Seek immediate medical attention
-
- IF SWALLOWED: rinse mouth. Do NOT induce vomiting (P301+P330+P331).
- 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 victim to fresh air and keep at rest in a position comfortable for breathing (P304+P341).

SECTION 4 First aid measures (....)

- 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 any immediate medical attention and special treatment needed
- No information available
-

SECTION 5 Fire-fighting measures

- 5.1 Extinguishing media
- In case of fire: use dry sand or dry salt for extinction (P370+P378)
 - In case of fire: use foam, carbon dioxide or dry agent for extinction (P370+P378)
- 5.2 Special hazards arising from the substance or mixture
- Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback
 - In case of fire: (P370)
 - Carbon dioxide may be formed
 - Carbon oxides may be formed
- 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
-

SECTION 6 Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
- Wear protective clothing as per section 8
- 6.2 Environmental Precautions
- Avoid release to the environment (P273).
 - Do not flush spilt material into any public water system
 - 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
- See Section 13
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SECTION 7 Handling and storage

- 7.1 Precautions for safe handling
- Do not get in eyes, on skin, or on clothing (P262).
 - Eyewash bottles should be available
 - See Section 8
- 7.2 Conditions for safe storage, including any incompatibilities
- Keep away from open flames, hot surfaces and sources of ignition.
 - Store in a well-ventilated place. Keep container tightly closed (P403+P233).
 - Store in a dry place (P402).
 - Protect from sunlight (P410).
-

SECTION 7 Handling and storage (....)

7.3 Specific end use(s)

- Contact supplier for further information
-

SECTION 8 Exposure controls/personal protection

8.1 Control parameters

- Hydrocarbones, C10, aromatics, < 1% naphtalene
TLV (TWA) 275 mg/m3 ()
- Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)
TLV (TWA) 120 mg/m3 ()

8.2 Exposure controls

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

8.3 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)
 - Penetration time of glove material:
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
-

SECTION 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
- 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
- Upper flammability limit 6%(in air)
- Lower flammability limit 0.6%(in air)

9.2 Other information

- None
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SECTION 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
-

SECTION 10 Stability and reactivity (....)

10.5 Incompatible materials

- None

10.6 Hazardous Decomposition Products

- In case of fire: (P370)
 - Contains formaldehyde
 - Decomposition products may include carbon dioxide
 - Decomposition products may include carbon oxides
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SECTION 11 Toxicological information

11.1 Information on toxicological effects

- LD50 (oral,rat) 96 hours (Oxazolidine) 900 mg/kg
- LD50 (oral,rat) 96 hours (Hydrocarbones 2-25% aromatics) >5000 mg/kg
- LD50 (oral,rat) 96 hours (Hydrocarbones >25 % aromatics) >5000 mg/kg

11.2 Contact with eyes

- Causes redness and irritation
- Can cause damage to the eyes

11.3 Contact with skin

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

11.4 Ingestion

- May cause chronic pneumonitis
- Can cause damage to the digestive system
- The ingestion of significant quantities may cause damage to lungs

11.5 Inhalation

- May cause respiratory irritation (H335).
 - Inhalation of solvent vapours may give rise to nausea, headaches and dizziness
 - In cases of severe exposure, burning sensation may develop
-

SECTION 12 Ecological information

12.1 Toxicity

- LC50 (fish) (Oxazolidine) 57,7 mg/l (96 hr)
- EC50 (daphnia) (Oxazolidine) 37,9 mg/l (48 hr)
- IC50 (algae) (Oxazolidine) 5,7 mg/l (72 hr)
- Bioaccumulation. OECD-test. 107 - 0,3 (Oxazolidine, S & M)
- Biodegradability. OECD-test. 301B > 60% (Oxazolidine, S & M)
- LC50 (fish) (Hydrocarbones 2-25% aromatics) 10-100 mg/l (96 hr)
- LC50 (fish) (Hydrocarbones >25% aromatics) 1-10 mg/l (96 hr)
- This product contains components which are classified in the EU as dangerous for the environment.

12.2 Persistence and degradability

- The components in this product are readily biodegradable.

12.3 Bioaccumulation Potential

- Hydrocarbon solvents have the potential to bioaccumulate.

12.4 Mobility in soil

- Partially soluble in water.
- Hydrocarbonsolvents floats on water. Adsorbs to soil and is not mobile. Partly evaporates from water and soil surfaces, but a significant portion will remain after one day. Large volumes may penetrate soil and could contaminate groundwater.

SECTION 12 Ecological information (....)

12.5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII

12.6 Other Adverse Effects

- Not applicable
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SECTION 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

13.2 Classification

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

14.1 UN

- UN No.: UN3082
- Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (Hydrocarbones, C10, aromatics, < 1% naphtalene, Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) mixture)
- Hazard Class: 9
- Packing Group: III

14.2 Environmental hazards

- Marine pollutant

14.3 Special precautions for user

- No special precautions are required for this product

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

- Not applicable

14.5 Road/Rail (ADR/RID)

- ADR UN No.: UN3082
- Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (Hydrocarbones, C10, aromatics, < 1% naphtalene, Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) mixture)
- ADR Hazard Class: 9
- ADR Packing Group: III
- ADR subrisk: -
- ADR Flashpoint: >62C

14.6 Sea (IMDG)

- IMDG UN No.: UN3082
 - Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (Hydrocarbones, C10, aromatics, < 1% naphtalene, Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) mixture)
 - IMDG Hazard Class: 9
 - IMDG Pack Group.: III
 - IMDG EmS: F-A, S-F
 - IMDG subrisk: -
-

SECTION 14 Transport information (....)

- IMDG Flashpoint: >62C

14.7 Air (ICAO/IATA)

- ICAO Un No.: UN3082
- Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (Hydrocarbones, C10, aromatics, < 1% naphtalene, Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) mixture)
- ICAO Hazard Class: 9
- ICAO Packing Group: III
- ICAO subrisk: -
- ICAO Flashpoint: >62C

14.8 DOT / CFR (US Department of Transportation)

- Identification Number: UN3082
 - DOT Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (Hydrocarbones, C10, aromatics, < 1% naphtalene, Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) mixture)
 - DOT Labels: 9
 - Product RQ (lbs): -
 - Hazardous Material: (Alkyl (C3-C8) Benzenes)
 - Hazard Class: 9
 - DOT subrisk: -
 - DOT Flashpoint: >62C
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SECTION 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.
- Council Directive 1999/45/EEC Classification, packing and labelling of dangerous preparations.
- Refer to The Dangerous Substances Directive (67/548/EEC)
- Regulations 1272/2008/EEC. Classification, labeling and packing of dangerous substances and preparations
- Norwegian Productregistration no: 18205 (BIC)
- Offshore product registration number: Danish PR number: 2260181

15.2 Chemical Safety Assessment

- None
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SECTION 16 Other information

Text not given with phrase codes where they are used elsewhere in this safety data sheet:- EUH066: Repeated exposure may cause skin dryness or cracking. H302: Harmful if swallowed. H304: May be fatal if swallowed and enters airways. H314: Causes severe skin burns and eye damage. H332: Harmful if inhaled. H336: May cause drowsiness or dizziness. H411: Toxic to aquatic life with long lasting effects. R20/22: Harmful by inhalation and if swallowed. R34: Causes burns. R52: Harmful to aquatic organisms. R65: Harmful: may cause lung damage if swallowed. R66: Repeated exposure may cause skin dryness or cracking.

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

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

SECTION 16 Other information (....)

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 most up-to-date version of this MSDS can be found on www.wilhelmsen.com/shipsservice

OTHER CONTACT INFORMATION MAJOR CHEMICAL OFFICES

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