
SAFETY DATA SHEET

1 Identification of the substance or preparation and the supplier

Product Name: **MAR - 71**
 Datasheet Number: 613809 2.0.0
 Use of the substance/preparation: Cooling water treatment
 Product Part Number: 613809 (3 x 5 liter)

 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

2 Composition/information on ingredients

Chemical Name	Concentration	CAS Number	EC Number	R Phrases	Symbols
N,N-Methylene-bis-(5-methyl-oxazolidine)	>95	66204-44-2	266-235-8	22, 36/37/38, 41, 52	Xn
Non classified ingredients	1-10				

3 Hazards identification

- Odour: Strong smell of ammonia
- Appearance: Liquid, colourless to yellow, soluble in water
- Contact with eyes: Risk of serious damage to eyes (R41)
- Contact with skin: Prolonged skin contact will result in defatting of the skin, leading to irritation, and in some cases, dermatitis
- Inhalation: May cause coughing, May cause severe irritation, Irritating to eyes, respiratory system and skin (R36/37/38)
- Harmful to aquatic organisms (R52)

3 Hazards identification (....)



Harmful

4 First aid measures

Contact with skin

- Remove contaminated clothing immediately and wipe affected skin with dry cloth. Then wash with soap and water
- Seek medical attention if irritation persists
- Contaminated clothing should be laundered before reuse

Contact with eyes

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

Ingestion

- Do not induce vomiting
- Never give anything by mouth to an unconscious person
- Give 200-300mls (half pint) water to drink
- If vomiting occurs turn patient on side
- Obtain immediate medical attention

Inhalation

- Remove patient to fresh air
- Seek medical attention if ill effects occur

General

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

5 Fire-fighting measures

- Flash point >100 deg C (CC) , Lower flammability limit 0.6%(in air), Upper flammability limit 6%(in air)
- Toxic and irritant fumes may be formed
- In case of fire use water spray or fog, alcohol resistant foam, dry chemical or carbon dioxide (S43)
- Substance evolves toxic fumes, wear self-contained breathing apparatus

6 Accidental release measures

Personal Precautions

- Wear protective clothing as per section 8

Environmental Precautions

- Do not allow to enter public sewers and watercourses

Immediate Actions

- Contain spillage by any means possible

6 Accidental release measures (....)

Clean Up Actions

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

Special Precautions

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

7 Handling and storage

Handling

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

Storage

- Keep only in the original container in a cool, well ventilated place (S3/9/49)
- Keep container tightly closed (S7)

8 Exposure controls and personal protection

Exposure Limits

- No exposure limits have been set for this substance

Exposure controls

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

Occupational exposure controls

- Wear suitable protective clothing, including eye/face protection and gloves (plastic or rubber are recommended)
- No respiratory protection is required unless subject to contact with substance mist
- During fumigation/spraying wear suitable respiratory equipment (S42)



9 Physical and chemical properties

- Odour: Strong smell of ammonia
- Appearance: Liquid, colourless to yellow, soluble in water
- pH 10 at 0.15 % concentration
- Boiling point 116 °C at 760 mm /Hg
- Vapour pressure <100 Pa
- Vapour density (air = 1) >1
- Freezing point unknown
- Completely soluble in water

9 Physical and chemical properties (....)

- Specific gravity (water=1) 1.06
 - Flash point >100 deg C (CC) , Lower flammability limit 0.6%(in air), Upper flammability limit 6%(in air)
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10 Stability and reactivity

- This article is considered stable under normal conditions
 - Avoid overheating, Avoid contact with acid
 - Incompatible with acid
 - See Section 5
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11 Toxicological information

Toxicological information

- LD50 (oral,rat) 900 mg/kg

Inhalation

- Causes irritation

Contact with skin

- May cause redness and irritation

Contact with eyes

- Causes irritation

Ingestion

- By comparison with analogous substances, it is concluded that it will be harmful
- May cause gastro-intestinal disturbances

Carcinogenicity

- No evidence of carcinogenic effects
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12 Ecological information

Ecotoxicity

- May cause acute effects in the aquatic environment
- EC50 (daphnia) 37.9 mg/l (48 hr)

Mobility

- Completely soluble in water

Persistence and Biodegradability

- The components in this product are readily biodegradable.

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

- This material and/or its container must be disposed of as hazardous waste

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
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14 Transport information

- Not classified as hazardous for transport
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15 Regulatory information



Harmful

Risk Phrases

- Harmful if swallowed (R22)
- Irritating to eyes, respiratory system and skin (R36/37/38)
- Risk of serious damage to eyes (R41)
- Harmful to aquatic organisms (R52)

Safety Phrases

- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice (S26)
 - Wear suitable gloves and eye/face protection (S37/39)
 - If swallowed seek medical advice immediately and show this container or label (S46)
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16 Other information

(R22: Harmful if swallowed. R36/37/38: Irritating to eyes, respiratory system and skin. R41: Risk of serious damage to eyes. R52: Harmful to aquatic organisms.)

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

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)