

SAFETY DATA SHEET

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

1.1 Product identifier

Product Name: PHOSPHATE REAGENT MO210
 Datasheet Number: 777054 1. 0. 0
 Product Part Number: 777054
 Head Office:: Wilhelmsen Ships Service AS
 Address: 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

Reagent

1.3 Details of the supplier of the safety data sheet

Name of Supplier: For quotations contact your local Customer Services
 Address of Supplier: Wilhelmsen Ships Service AS
 Willem Barentszstraat 50
 3165AB Rotterdam
 +31 4877 888
 The Netherlands
 Telephone: +31 4877 777
 Fax:
 Responsible Person: , Product HSE Manager, Tel.: +31 10 4877775
 Email: WSS.GLOBAL.SDSINFO@wilhelmsen.com

1.4 Emergency telephone number

-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
 Australia: +61 3 9630 0998
 Giftinformasjonssentralen in Norway Tel.: +47 22591300

2 Hazards identification

2.1 Classification of the substance or mixture

- Council Directive 1999/45/EEC Classification, packing and labelling of dangerous preparations.
- Acute Tox. 4
- Skin Corr. 1A
- Eye Dam. 1

2.2 Label elements



- Signal Word: Danger
- Symbols: C, GHS05, GHS07

2 Hazards identification (....)

Hazard phrases

- Harmful if inhaled.
- Causes severe skin burns and eye damage.
- Causes serious eye damage.

Precautionary Phrases

- Wear protective gloves/protective clothing/eye protection/face protection.
- IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Immediately call a POISON CENTER or doctor/physician.

Risk Phrases

- Harmful by inhalation (R20)
- Causes burns (R34)

Safety Phrases

- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice (S26)
- 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)

2.3 Other hazards

- Odour: Pungent odour
- Appearance: Liquid, yellow

3 Composition/information on ingredients

3.1 Mixtures

Chemical Name	Concentration	CAS Number	EC Number	R/H Phrases*	Symbols
Nitric acid	10-20%	7697-37-2	231-714-2	R8, 35	O, C
CLP classification: Ox. Liq. 3, Skin Corr. 1A				H272, H314	GHS05, GHS07
Ammonium molybdate	1-5%	12027-67-7	234-722-4	R22, 36/37/38	Xn, Xi
CLP classification: Skin Irrit.2, Eye irrit.2 STOT SE 3				H315, H319 H335	GHS07

*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.
- When in doubt or symptoms persist, seek medical attention

4 First aid measures (....)

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- When in doubt or symptoms persist, seek 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
- IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
- When in doubt or symptoms persist, seek medical attention
- Apply artificial respiration only if patient is not breathing

4.2 Most important symptoms and effects, both acute and delayed

- Possible blistering of the skin of affected areas
- Can cause damage to the eyes
- The ingestion of significant quantities may cause burning sensation
- The ingestion of significant quantities may cause coughing
- The ingestion of significant quantities may cause damage to digestive system
- May cause shortness of breath
- May cause coughing

4.3 Indication of immediate medical attention and special treatment needed

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5 Fire-fighting measures

5.1 Extinguishing media

- Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions

5.2 Special hazards arising from the substance or mixture

- Smoke from fires is toxic
- See Section 10

5.3 Advice for firefighters

- Wear chemical protection suit and positive-pressure breathing apparatus

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Wear protective clothing as per section 8
- Shut off source of leak if safe to do so
- Wash thoroughly after dealing with spillage

6.2 Environmental Precautions

- Do not allow to enter public sewers and watercourses
- Do not flush spilt material into any public water system

6.3 Methods and material for containment and cleaning up

- Absorb spillage in earth or sand
- Place in sealable container
- Seal containers and label them
- Remove contaminated material to safe location for subsequent disposal
- Ventilate the area and wash spill site after material pick-up is complete

6 Accidental release measures (....)

6.4 Reference to other sections

- None
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7 Handling and storage

7.1 Precautions for safe handling

- Eyewash bottles should be available
- Do not get in eyes, on skin, or on clothing.
- Ensure adequate ventilation
- See Section 8

7.2 Conditions for safe storage, including any incompatibilities

- Keep in a cool, dry, well ventilated place
- Keep container tightly closed.
- Keep only in original container.

7.3 Specific end use(s)

- Restricted to professional users
-

8 Exposure controls/personal protection

8.1 Control parameters

- Nitric acid
MEL / STEL # ppm (15 min.) 2.6 mg/m³

8.2 Exposure controls

- Ensure adequate ventilation

Occupational exposure controls

- In case of inadequate ventilation wear respiratory protection.
- Wear goggles giving complete eye protection
- Wear neoprene or nitrile gloves



Gloves



Goggles

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Odour: Pungent odour
- Appearance: Liquid, yellow, miscible with water
- pH <7
- Boiling point 35 °C
- Flash point >93 deg C (CC)

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 heat and sources of ignition

10.5 Incompatible materials

- Incompatible with alkalis (strong bases)

10.6 Hazardous Decomposition Products

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

11.1 Information on toxicological effects

- No information available

Inhalation

- May cause breathing difficulty
- May cause coughing
- May cause dizziness

Contact with skin

- May cause blistering of the skin

Contact with eyes

- Can cause damage to the eyes

Ingestion

- Can cause damage to the digestive system
 - Can cause damage to the stomach lining
 - Causes dizziness, confusion, headache or stupor
-

12 Ecological information

12.1 Toxicity

- This product does not contain ingredients which are classified in the EU as dangerous for the environment.
- On available data, substance is not harmful to aquatic life

12.2 Persistence and degradability

- No information available

12 Ecological information (....)

12.3 Bioaccumulation Potential

- No information available

12.4 Mobility in soil

- No information available

12.5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII

12.6 Other Adverse Effects

- No information available

13 Disposal considerations

13.1 Waste treatment methods

- Disposal should be in accordance with local, state or national legislation
- Dispose of contents/container to an authorised waste collection point

Classification

- EU Waste class: 16 05 06

14 Transport information



Corrosive

14.1 UN Number

- UN2031

14.2 UN Proper Shipping Name

- Nitric acid solution

14.3 Transport hazard class(es)

- 8

14.4 Packing group

- II

14.5 Environmental hazards

- On available data, substance is not harmful to the environment

14.6 Special precautions for user

- When supplied as part of a kit: The kit may be transported under classification UN3316 CHEMICAL KIT

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

- Not applicable

Other information

14 Transport information (....)

Road/Rail (ADR/RID)

Proper Shipping Name:	Nitric acid solution		
ADR UN No.:	UN2031	ADR Hazard Class:	8
ADR Packing Group:	II	ADR subrisk:	-
ADR Flashpoint:	-		

Sea (IMDG)

Proper Shipping Name:	Nitric acid solution		
IMDG UN No.:	UN2031	IMDG Hazard Class.:	8
IMDG Pack Group.:	II	IMDG EmS:	F-A, S-B
IMDG subrisk:	-	IMDG Flashpoint:	-

Air (ICAO/IATA)

Proper Shipping Name:	Nitric acid solution		
ICAO Un No.:	UN2031	ICAO Hazard Class.:	8
ICAO Packing Group.:	II	ICAO subrisk:	-
ICAO Flashpoint:	-		

DOT / CFR (US Department of Transportation)

DOT Proper Shipping Name:	Nitric acid solution		
Hazardous Material:	Nitric acid		
Hazard Class:	8	Identification Number:	UN2031
Product RQ (lbs):	-	DOT subrisk:	-
DOT Flashpoint:	-		

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.
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- 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
- Council Directive 1999/45/EEC Classification, packing and labelling of dangerous preparations.

15.2 Chemical Safety Assessment

None

16 Other information

Text of R and S phrase codes used in this safety data sheet:- H272: May intensify fire; oxidizer.; H314: Causes severe skin burns and eye damage.; H315: Causes skin irritation.; H319: Causes serious eye irritation.; H335: May cause respiratory irritation.; R22: Harmful if swallowed; R35: Causes severe burns; R36/37/38: Irritating to eyes, respiratory system and skin; R8: Contact with combustible material may cause fire.

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

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

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

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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