
SAFETY DATA SHEET

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

1.1 Product identifier

Product Name: PHOSPHATE TABLETS
Datasheet Number: 555649-r 1. 0. 0
Product Part Number: 555649 (100 x 0.4 gram)
Head Office:: Wilhelmsen Ships Service AS
Address: Strandveien 20, N1324 Lysaker, Norway, Tel: (+47) 67584550

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

- Repr. 1B
- May damage fertility or the unborn child.
- Eye Dam. 1
- Causes serious eye damage.
- Acute Tox. 4
- Harmful if inhaled.

2.2 Label elements



- Signal Word: Danger

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2 Hazards identification (....)

- Contains:
- sodium bisulphite
- aluminium chloride, anhydrous
- Ammonium meta-vanadate / Boric Acid

Hazard phrases

- May damage fertility or the unborn child.
- Causes serious eye damage.
- Harmful if swallowed.

Precautionary Phrases

- Wear protective gloves/protective clothing/eye protection/face protection.
- 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.
- IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
- Store locked up.
- Dispose of contents/container to an authorised waste collection point

Risk Phrases

- May impair fertility (R60)
- May cause harm to the unborn child (R61)
- Harmful by inhalation (R20)
- Risk of serious damage to eyes (R41)

Safety Phrases

- Wear suitable protective clothing, eye/face protection and gloves (S36/37/39)
- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice (S26)
- Avoid exposure - obtain special instructions before use (S53)

2.3 Other hazards

- Odour: Odourless
- Appearance: Solid, white

3 Composition/information on ingredients

Chemical Name	Concentration	CAS Number	EC Number	R/H Phrases*	Symbols
Sodium Bisulfate	35-40	7681-38-1	231-665-7	R41	Xi
Ammonium chloride	20-25	12125-02-9	235-186-4	R22, 36	Xn, Xi
Ammonium metavanadate	0.1-1	7803-55-6	232-261-3	R25, 26, 36/37/38	T
Boric Acid	10-20	10043-35-3	233-139-2	R60, 61	T, Repr. Cat2

*See Section 16

4 First aid measures

4.1 Description of first aid measures

- 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

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4 First aid measures (....)

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- IF ON SKIN: Wash with plenty of soap and water.
- Seek medical attention if irritation persists
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- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Irrigate eyes thoroughly whilst lifting eyelids
- Get immediate medical advice/attention.
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- IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
- Give plenty of water to drink
- Immediately call a POISON CENTER or doctor/physician.

4.2 Most important symptoms and effects, both acute and delayed

- Causes redness and irritation
- The ingestion of significant quantities may cause diarrhoea
- The ingestion of significant quantities may cause respiratory failure
- The ingestion of significant quantities may cause dizziness, confusion, headache or stupor
- The ingestion of significant quantities may cause irregular pulse

4.3 Indication of immediate medical attention and special treatment needed

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. Take precautions to protect personnel from exposure
- Decomposition products may include oxides of nitrogen, sulphur and carbon
- Decomposition products may include ammonia
- Decomposition products may include hydrogen chloride

5.3 Advice for firefighters

- Substance evolves toxic fumes, wear self-contained 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

- Avoid release to the environment.

6.3 Methods and material for containment and cleaning up

- Sweep or shovel-up spillage and remove to a safe place
- Ensure adequate ventilation

6.4 Reference to other sections

- None

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7 Handling and storage

7.1 Precautions for safe handling

- The usual precautions for handling chemicals should be observed
- Ensure adequate ventilation
- Do not breathe dust/fume/gas/mist/vapours/spray.
- Eyewash bottles should be available

7.2 Conditions for safe storage, including any incompatibilities

- Protect from moist air
- Store locked up.
- Protect from sunlight. Store in a well-ventilated place.

7.3 Specific end use(s)

8 Exposure controls/personal protection

8.1 Control parameters

- Ammonium chloride
WEL (short term) 20 mg/m³
WEL (long term) 10 mg/m³

8.2 Exposure controls

- Engineering controls should be provided which maintain airborne concentrations as low as practicable

Occupational exposure controls

- In case of inadequate ventilation wear respiratory protection.
- Wear suitable respiratory protection. Gas cartridge (organic substances).
- Wear suitable protective clothing, including eye/face protection and gloves (nitrile are recommended)



Goggles



Gloves



Respirator

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Odour: Odourless
- Appearance: Tablets, white, soluble in water
- pH 1.4
- Boiling point - not applicable
- Melting point - not known
- Partially soluble in water
- Density 2.24 g/cm³ at 20 deg C
- Non-combustible solid

9.2 Other information

10 Stability and reactivity

10.1 Reactivity

- This article is considered stable under normal conditions

10.2 Chemical stability

- 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

- Avoid overheating

10.5 Incompatible materials

- Incompatible with acids and alkalis
- Incompatible with alkali metals
- Incompatible with reducing agents
- Incompatible with oxidizing substances

10.6 Hazardous Decomposition Products

- Decomposition products may include ammonia
 - Decomposition products may include carbon oxides
 - See Section 5
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11 Toxicological information

11.1 Information on toxicological effects

- LD50 (oral, rat) (Ammonium chloride) 1440 mg/kg
- LD50 (oral, rat) (Boric acid) 2660 mg/kg
- LD50 (skin, rat) (boric acid) 2000 mg/kg
- LC50 (inhalation, rat) (Boric acid) 2.03 mg/l/4h
- LD50 (oral, mouse) (Ammonium meta-vanadate) 25 mg/kg
- LD50 (oral, rat) (Ammonium meta-vanadate) 169 mg/kg
- LD50 (skin, rat) (Ammonium meta-vanadate) 2102 mg/kg
- LC50 (inhalation, rat) (Ammonium meta-vanadate) 7.8 mg/M3-4h (Sigma Aldrich) mg/l/4h

Inhalation

- Not regarded as a potential route of exposure.

Contact with skin

- In cases of severe exposure, redness and irritation may develop

Contact with eyes

- Causes irritation

Ingestion

- The ingestion of significant quantities may cause gastro-intestinal disturbances

Carcinogenicity

- No evidence of carcinogenic effects
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12 Ecological information

12.1 Toxicity

- EC50 (Daphnia magna) (Ammonium chloride) 100 mg/l (48 hr)
- EC50 (Daphnia magna) (Boric acid) 133 mg/l (48 hr)
- LC50 (rainbow trout) (Boric acid) 50-100 mg/l (96 hr)
- LC50 (bluegill sunfish) (Ammonium chloride) 725 mg/l (96 hr)
- LC50 (fish) (Ammonium meta-vanadate) 2.6 mg/l ((ecotox) 96 hr)

12.2 Persistence and degradability

- Degrades by hydrolysis

12.3 Bioaccumulation Potential

- Bioaccumulation is insignificant

12.4 Mobility in soil

- Dispersible

12.5 Results of PBT and vPvB assessment

12.6 Other Adverse Effects

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: -16-05-07
 - This material and/or its container must be disposed of as hazardous waste
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14 Transport information

14.1 UN Number

- n/a

14.2 UN Proper Shipping Name

- n/a

14.3 Transport hazard class(es)

- n/a

14.4 Packing group

- n/a

14.5 Environmental hazards

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

14.6 Special precautions for user

- Not classified as hazardous for transport

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

- Not applicable
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14 Transport information (....)

Other information

15 Regulatory information

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

- SUBSTANCES OF VERY HIGH CONCERN (SVHC) ACCORDING TO REACH, ARTICLE 57: Boric acid (CAS 10043-35-3)
- Council Directive 1999/45/EEC Classification, packing and labelling of dangerous preparations.
- This substance is covered by The Dangerous Substances Directive (67/548/EEC) as amended
- Regulations 1272/2008/EEC. Classification, labeling and packing of dangerous substances and preparations

15.2 Chemical Safety Assessment

16 Other information

Text of R and S phrase codes used in this safety data sheet:- R22: Harmful if swallowed; R25: Toxic if swallowed; R26: Very toxic by inhalation; R36: Irritating to eyes; R36/37/38: Irritating to eyes, respiratory system and skin; R41: Risk of serious damage to eyes; R60: May impair fertility; R61: May cause harm to the unborn child.

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

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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16 Other information (....)

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