SAFETY DATA SHEET
Azasure

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
Product name
Azasure
Product Registration No.
Marketing Authorisation Number (UK): 42016/4000, Markedsføringstillatelse nummer (Norway): 13-9411

1.2. Relevant identified uses of the substance or mixture and uses advised against
Identified uses
Aquaculture sea lice treatment (parasicide)

1.3. Details of the supplier of the safety data sheet
Supplier
Neptune Pharma Ltd
Regus House
Victory Way
Admirals Park
Crossways
Dartford
DA2 6QD
England
+44 845 123 3834
info@neptunepharma.com

Contact person
Ian Bowler

1.4. Emergency telephone number
Emergency telephone
+44 (0) 845 123 3834 (office hours only)
National emergency telephone number
UK: 111

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification
Physical hazards
Not Classified

Health hazards
Eye Irrit. 2 - H319

Environmental hazards
Aquatic Acute 1 - H400

Classification (67/548/EEC or 1999/45/EC)
Xi; R36. N; R50

Human health
Harmful if swallowed. Irritating to eyes.

Environmental
The product contains a substance which is very toxic to aquatic organisms.

Physicochemical
Not classified
Azasure

2.2. Label elements

Pictogram

| ! | Tree |

Signal word
Warning

Hazard statements
H319 Causes serious eye irritation.
H400 Very toxic to aquatic life.

Precautionary statements
P264 Wash contaminated skin thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.
P391 Collect spillage.
P501 Dispose of contents/container in accordance with national regulations.

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

<table>
<thead>
<tr>
<th>Azamethiphos</th>
<th>30-60%</th>
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<tbody>
<tr>
<td>CAS number: 35575-96-3</td>
<td>EC number: 252-626-0</td>
</tr>
<tr>
<td>M factor (Acute) = 1</td>
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</tbody>
</table>

| Classification |
| Acute Tox. 4 - H302 |
| Eye Irrit. 2 - H319 |
| Aquatic Acute 1 - H400 |

| Naphthalenesulfonic acids, polymers with formaldehyde and sulfonated phenol, sodium salts | 1-5% |
| CAS number: 67784-97-8 | EC number: — |

| Classification |
| Eye Irrit. 2 - H319 |
| Aquatic Chronic 3 - H412 |

Classification (67/548/EEC or 1999/45/EC)
Xn; R22. Xi; R36. N; R50

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation
IF INHALED: Get medical attention. Show this Safety Data Sheet to the medical personnel.

Ingestion
IF SWALLOWED: Get medical attention. Show this Safety Data Sheet to the medical personnel.

Skin contact
Wash skin thoroughly with soap and water.

Eye contact
Wash with plenty of water. Get medical attention immediately.
Azasure

Protection of first aiders
Wash contaminated clothing thoroughly with water before removing it from the affected person, or wear gloves.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation
High concentrations may be fatal.

Eye contact
The product is irritating to eyes and skin.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor
Contains organophosphorous pesticide

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media
Water spray, foam, dry powder or carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products
Toxic gases or vapours.

5.3. Advice for firefighters

Special protective equipment for firefighters
Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions
Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate.

6.2. Environmental precautions

Environmental precautions
Very toxic to aquatic life. Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up
Collect powder using special dust vacuum cleaner with particle filter or carefully sweep into suitable waste disposal containers and seal securely. Avoid generation and spreading of dust. Wash thoroughly after dealing with a spillage. Ventilate area after spill.

6.4. Reference to other sections

Reference to other sections
For personal protection, see Section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions
Avoid contact with skin, eyes and clothing. Do not breathe dust. Avoid prolonged or repeated exposure.

Advice on general occupational hygiene
Persons with impaired lung function should not handle this product. Do not eat, drink or smoke when using this product. Provide eyewash station and safety shower. Change work clothing daily before leaving workplace. Wash skin thoroughly after handling. Use appropriate skin cream to prevent drying of skin.

7.2. Conditions for safe storage, including any incompatibilities
Azasure

Storage precautions
Store in tightly-closed, original container in a dry and cool place. Keep locked up and out of the reach of children. Use appropriate containment to avoid environmental contamination.

7.3. Specific end use(s)
Specific end use(s)
The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

Azamethiphos
No Occupational Exposure Limits available.

Naphthalenesulfonic acids, polymers with formaldehyde and sulfonated phenol, sodium salts
No Occupational Exposure Limits available.

Azamethiphos (CAS: 35575-96-3)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>PNEC</td>
<td>Marine water; 3 hour after release within mixing zone 250 ng/l</td>
</tr>
<tr>
<td></td>
<td>Marine water; 72 hour after final release within mixing zone 100 ng/l</td>
</tr>
<tr>
<td></td>
<td>Marine water; 72 hour after final release outside mixing zone 40 ng/l</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Protective equipment
Use mechanical ventilation if there is a risk of handling causing formation of airborne dust.

Personal protection
Wear suitable protective clothing (waterproof coveralls).

Eye/face protection
The following protection should be worn: Full face visor or shield. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Hand protection
It is recommended that chemical-resistant, impervious gloves are worn. Wear protective gauntlets made of the following material: Nitrile rubber. To protect hands from chemicals, gloves should comply with European Standard EN374.

Other skin and body protection
Renew protective clothing and gloves regularly. Replace protective clothing and gloves immediately if cracked or damaged. Provide eyewash station and safety shower.

Hygiene measures
Wash hands thoroughly after handling. Wash skin thoroughly after handling.

Respiratory protection
Respiratory protection may be required if excessive airborne contamination occurs. Wear a full facepiece respirator fitted with the following cartridge: Particulate filter, type P1. Particulate filters should comply with European Standard EN143.

Environmental exposure controls
Keep container tightly sealed when not in use.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance
Powder.
colour: Beige.

Odour: Foul

pH: pH (diluted solution): 5-7 1%

Melting point: 88.54°C (active substance)

Relative density: 1.60 g/cm³ (active substance)

Solubility(ies): 1.38 g/l water @ 20°C (active substance)

Partition coefficient: log Pow: 1.07 (active substance)

SECTION 10: Stability and reactivity

10.1. Reactivity
There are no known reactivity hazards associated with this product.

10.2. Chemical stability
Stability: Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions
None known.

10.4. Conditions to avoid
None known.

10.5. Incompatible materials
Materials to avoid: Oxidising agents.

10.6. Hazardous decomposition products

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral
ATE oral (mg/kg) 2,360.0

Serious eye damage/irritation
Irritation of eyes is assumed.

Inhalation
May be harmful if inhaled. May be irritating to mucous membranes and upper respiratory tract.

Ingestion
May cause discomfort if swallowed.

Skin contact
May cause skin irritation.
Azasure

Eye contact
Causes eye irritation.

SECTION 12: Ecological Information

Ecotoxicity
Very toxic to aquatic life.

Zinc Oxide

12.1. Toxicity

Acute toxicity - fish
LC₅₀, 96 hour: 0.1 mg/l, Gasterosteus aculeatus (Three-spined stickleback)

Acute toxicity - aquatic invertebrates
LC₅₀, 96 hour: 0.00052 mg/l, Homarus gammarus (Marine invertebrate)

Acute toxicity - aquatic plants
EC₅₀, 72 hour: >1 mg/l, Phaeodactylum tricornutum (Marine algae)

12.2. Persistence and degradability

Persistence and degradability
The product is biodegradable.

Biodegradation
Water - DT₅₀: ≤ 4.56 days

12.3. Bioaccumulative potential

Partition coefficient
log Pow: 1.07 (active substance)

12.4. Mobility in soil

Mobility
Mobile.

12.5. Results of PBT and vPvB assessment

This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods
Dispose of waste via a licensed waste disposal contractor. Waste is suitable for incineration.

SECTION 14: Transport information

14.1. UN number

UN 3077

14.2. UN proper shipping name

Environmentally hazardous substance, solid, N.O.S (azamethiphos)

14.3. Transport hazard class(es)

ADR/RID class 9
ADR/RID classification code T7
IMDG class 9
ICAO class/division 9

Transport labels
Azasure

14.4. Packing group

III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

Yes.

14.6. Special precautions for user

EmS F-A, S-F

ADR transport category 3

Hazard Identification Number 60

(ADR/RID)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

SECTION 15: Regulatory information

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

Water hazard classification

WGK 3

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

Inventories

EU - EINECS/ELINCS

EINECS

SECTION 16: Other information

Revision date 27/01/2015

SDS number 4514

Risk phrases in full

R22 Harmful if swallowed.
R36 Irritating to eyes.
R50 Very toxic to aquatic organisms.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Hazard statements in full

H302 Harmful if swallowed.
H319 Causes serious eye irritation.
H400 Very toxic to aquatic life.
H412 Harmful to aquatic life with long lasting effects.