



Guest Medical

SAFETY DATA SHEET

Aquasan

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

1.1. Product identifier

Product name Aquasan, Code H8500

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

Identified uses Laboratory Water Bath Bacteriostat.

1.3. Details of the supplier of the safety data sheet

Supplier Guest Medical Limited
Unit A6, Larkfield Trading Estate, New Hythe Lane, Aylesford. Kent. ME20 6SW
T: +44(0) 1622 791895, (Hours 09:00- 17:00 Mon to Fri)
F: +44(0) 1622 716309
enquiries@guest-medical.co.uk

Emergency telephone number: +44 (0) 1622 791 895 (English language service only.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Physical hazards: Not Classified
Health hazards: Acute Tox. 4 - H302; Skin Irrit. 2 - H315; Eye Dam. 1 - H318; STOT SE 3 - H335
Environmental hazards Aquatic Acute 1 - H400 Aquatic Chronic 2 - H411
Classification (67/548EEC or 1999/45/EC): Xn; R21/22. Xi; R37/38, R41. N; R50.

2.2. Label elements

Pictogram



Signal Word: **Danger**

Hazard statements:

H302 Harmful if swallowed.
H315 Causes skin irritation
H335 May cause respiratory irritation.
H318 Causes serious eye damage.
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

P261 Avoid breathing vapour/spray.
P264 Wash contaminated skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P302+P352 IF ON SKIN: Wash with plenty of water.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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P305+P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 Call a POISON CENTER/doctor if you feel unwell.

P321 Specific treatment (see medical advice on this label).

P330 Rinse mouth.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container in accordance with national regulations.

Contains: 2-Bromo-2-nitro-1,3-propanediol

2.3. Other hazards none identified

SECTION 3: Composition/information on ingredients

3.2. Mixtures

| | | |
|--|-------------------------------------|--|
| 2-Bromo-2-nitro-1,3-propanediol | | 30 - 60% |
| CAS number: 52-51-7 EC number: 200-143-0 | | |
| M factor (Acute) = 1 | | |
| Classification: | Regulation (EC) No 1272/2008 | Classification (67/548/EEC or 1999/45/EC) |
| Acute Tox. 4 | - H302 | Xn; R21/22, Xi; R37/38, R41, N; R50 |
| Acute Tox. 4 | - H312 | |
| Skin Irrit. 2 | - H315 | |
| Eye Dam. 1 | - H318 | |
| STOT SE 3 | - H335 | |
| Aquatic Acute 1 | - H400 | |
| Aquatic Chronic 2 | - 411 | |
| Sodium chloride | | 30 - 60% |
| CAS number: 7647-14-5 EC number: 231-598-3 | | |
| Classification: | | Classification (67/548/EEC or 1999/45/EC) |
| Not classified | | - |
| Citric Acid anhydrous | | 1 - 5 % |
| CAS number: 77-92-9 EC number: 201-069-1 | | |
| Classification: | | Classification (67/548/EEC or 1999/45/EC) |
| Eye Irrit. 2 | - H319 | Xi; R36 |

The full text for all R-Phrases and Hazard Statements are Displayed in Section 16

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SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

Move affected person to fresh air, keep warm and at rest in a comfortable position for breathing. Keep affected person under observation. Get medical attention. Show this Safety Data Sheet to the medical personnel.

Ingestion

Rinse mouth thoroughly with water and give plenty of water to drink. Get medical attention.

Skin contact

Wash skin thoroughly with soap and water.

Eye contact

Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes and get medical attention.

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

Inhalation: Irritating to respiratory system.

Ingestion: Harmful if swallowed.

Skin contact: Harmful in contact with skin

Eye contact: Risk of serious damage to eyes

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

Get medical attention.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Foam, Dry powder.

Unsuitable extinguishing media: Carbon dioxide (CO₂)

5.2. Special hazards arising from the substance or mixture

Toxic gases or vapours. Dust may form explosive mixture with air.

5.3. Advice for firefighters

Protective actions during firefighting: If risk of water pollution occurs, notify appropriate authorities.

Special protective equipment: Wear self-contained breathing apparatus (SCBA) and appropriate protective clothing

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid generation and spreading of dust. For personal protection see section 8. Wear chemical protective suit.

6.2. Environmental precautions

Do not discharge into drains or water courses or into the ground.

6.3. Methods and material for containment and 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.

6.4. Reference to other sections

Wear protective clothing as described in section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid generation and spreading of dust. Use mechanical ventilation if there is a risk of handling causing airborne dust formation.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and animal feed. Store in a tightly closed, original container in a dry and cool place.

7.3. Specific end use(s)

Only to be used as specified in section 1.2

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SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational Exposure Limit: Sodium chloride – LTEL (8hr TWA): WEL 4 mg/M3 resp. dust

Ingredient comments: Due to the hazardous nature of the ingredients, exposure should be minimal.

Citric Acid anhydrous (CAS: 77-92-9)

Ingredient comments: No exposure limits known for ingredient

8.2 Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

Eye/face protection

Wear tight-fitting chemical splash goggles or face shield.

Skin protection

Handle with gloves such as Nitrile or PVC conforming to EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body protection

Wear suitable protective clothing as protection against splashing or contamination.

Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge:

Particulate filter type P2.

Hygiene measures

Provide eyewash station. Employ good industrial hygiene procedures including no eating/drinking or smoking whilst handling the material. Wash hands at the end of each work shift and before eating, smoking or using the toilet.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties.

| | |
|-------------------|------------------|
| Appearance | Tablet |
| Colour | Cream. |
| Odour | Characteristic |
| Solubility | Soluble in water |

9.2. Other information

No other relevant information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Avoid heat.

10.2. Chemical stability

Avoid the following conditions: Moisture, shocks and physical damage.

10.3. Possibility of hazardous reactions

Dust may form explosive mixture with air.

10.4. Conditions to avoid

Avoid heat.

10.5. Incompatible materials

Avoid contact with oxidising agents, Aluminium, Alkalis – inorganic.

10.6. Hazardous decomposition products

Oxides of Nitrogen, Hydrogen bromine (HBr).

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute Toxicity – oral ATE oral (mg/kg) 943.4

Acute Toxicity – dermal ATE dermal (mg/kg) 2,075.47

Toxicological information on ingredient: 2-Bromo-2-nitro-1,3-propandiol

Acute toxicity dermal (LD50 mg/kg) 2,000.0

Species: Rat

SECTION 12: Ecological Information

Ecotoxicity.

Ecological information on ingredient: 2-Bromo-2-nitro-1,3-propandiol

12.1. Toxicity

Very toxic to aquatic organisms.

Acute aquatic toxicity LE(C)50: $0.1 < L(E)C50 \leq 1$

M factor (Acute): 1

Acute toxicity – fish: LC50, 96 hours; - 41.2 mg/l, Onchorhynchus mykiss (Rainbow trout)

Acute toxicity – Aquatic invertebrates: EC50 48 hours; – 1.4 mg/l, Daphnia magna

Acute toxicity – Aquatic plants: EC50 72 hours; - 0.4 mg/l

Acute toxicity – terrestrial: LC50 14 days; > 500 mg/l Eisenia Fetida (Earthworm)

Chronic toxicity - Aquatic invertebrates: EC50 21 days; 1.7mg/l, Daphnia magna

12.2. Persistence and degradability

This product is degraded by abiotic reaction

12.3. Bioaccumulative potential

The product is not bioaccumulating..

12.4. Mobility in soil

The product is soluble in water.

12.5. Results of PBT and vPvB assessment

This product does not contain ny substances classified at PBT or vPvB.

12.6. Other adverse effects –

No specific information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods: Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

14.1. UN number:

UN no. (ADR/RID) 3241

UN no. (IMDG) 3241

UN no. (ICAO) 3241

Aquasan**14.2. UN proper shipping name:****Proper shipping name (ADR/RID)** 2-Bromo-2-nitropropne-1,3-diol**Proper shipping name (IMDG)** 2-Bromo-2-nitropropne-1,3-diol**Proper shipping name (ICAO)** 2-Bromo-2-nitropropne-1,3-diol**Proper shipping name (ADN)** 2-Bromo-2-nitropropne-1,3-diol**14.3. Transport hazard class(es):****ADR/RID class** 4.1**IMDG class** 4.1**ICAO class/division** 4.1**Transport labels****14.4. Packing group:****ADR/RID packing group** III**IMDG packing group** III**ICAO packing group** III**14.5. Environmental hazards:****Environmentally hazardous substance/marine pollutant****14.6. Special precautions for user:****Tunnel restriction code** (D)**14.7. Transport in bulk according Annex II of MARPOL 73/78 and the IBC code**

Not Applicable

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

EU legislation: Dangerous Substances Directive 67/548/EEC
Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information**General information****Revision date** 24. 07. 2015**Revision** 32**Supersedes date** 31. 03. 2004**SDS number** 12997

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Risk Phrases in full:

Not classified.
R21/22 Harmful in contact with skin and if swallowed.
R36 Irritating to eyes.
R37/38 Irritating to respiratory system and skin.
R41 Risk of serious damage to eyes.
R50 Very toxic to aquatic organisms.

Hazard Statements in full:

H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.

Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.