



SAFETY DATA SHEET
Bellacide® 337

1. Identification

Product identifier

Product name Bellacide® 337

Recommended use of the chemical and restrictions on use

Application FOR RESEARCH AND DEVELOPMENT

RECOMMENDED USE:

Details of the supplier of the safety data sheet

Supplier BWA Water Additives UK Ltd
2 Brightgate Way
Manchester M32 0TB
United Kingdom
F: +44 (0)161 864 6666
(Technical/commercial enquiries)
T: +44 (0)161 864 6699
E: msds@wateradditives.com

Emergency telephone number

Emergency telephone +44(0) 208 762 8322

2. Hazard(s) identification

Classification of the substance or mixture

Physical hazards Not Classified

Health hazards Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318

Environmental hazards Aquatic Acute 1 - H400 Aquatic Chronic 3 - H412

Label elements

Hazard symbols



Signal word

Danger

Hazard statements

H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H400 Very toxic to aquatic life.
H412 Harmful to aquatic life with long lasting effects.

Bellacide® 337

Precautionary statements	<p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P270 Do not eat, drink or smoke when using this product.</p> <p>P273 Avoid release to the environment.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P301+P312 If swallowed: Call a poison center/ doctor if you feel unwell.</p> <p>P302+P352 If on skin: Wash with plenty of water.</p> <p>P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P310 Immediately call a poison center/ doctor.</p> <p>P321 Specific treatment (see medical advice on this label).</p> <p>P330 Rinse mouth.</p> <p>P332+P313 If skin irritation occurs: Get medical advice/ attention.</p> <p>P362+P364 Take off contaminated clothing and wash it before reuse.</p> <p>P391 Collect spillage.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>
---------------------------------	---

Contains DIDECYLDIMETHYLAMMONIUM CHLORIDE

3. Composition/information on ingredients

Mixtures

<p>BRONOPOL (INN)</p> <p>CAS number: 52-51-7</p> <p>M factor (Acute) = 10</p>	5-10%
<p>Classification</p> <p>Acute Tox. 4 - H302</p> <p>Acute Tox. 4 - H312</p> <p>Acute Tox. 3 - H331</p> <p>Skin Irrit. 2 - H315</p> <p>Eye Dam. 1 - H318</p> <p>STOT SE 3 - H335</p> <p>Aquatic Acute 1 - H400</p> <p>Aquatic Chronic 2 - H411</p>	
<p>DIDECYLDIMETHYLAMMONIUM CHLORIDE</p> <p>CAS number: 7173-51-5</p> <p>M factor (Acute) = 10</p>	1-5%
<p>Classification</p> <p>Acute Tox. 4 - H302</p> <p>Skin Corr. 1B - H314</p> <p>Eye Dam. 1 - H318</p> <p>Aquatic Acute 1 - H400</p> <p>Aquatic Chronic 2 - H411</p>	

The full text for all hazard statements is displayed in Section 16.

4. First-aid measures

Description of first aid measures

Inhalation Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention.

Bellacide® 337

Ingestion	Do not induce vomiting. Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention if symptoms are severe or persist. If in doubt, get medical attention promptly.
Skin Contact	Remove contaminated clothing. Rinse immediately with plenty of water. Get medical attention if symptoms are severe or persist after washing.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention.

Most important symptoms and effects, both acute and delayed

Inhalation	No specific symptoms known.
Ingestion	No specific symptoms known.
Skin contact	Causes skin irritation.
Eye contact	Risk of serious damage to eyes.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media Extinguish with the following media: Foam.

Advice for firefighters

Protective actions during firefighting Move containers from fire area if it can be done without risk. Control run-off water by containing and keeping it out of sewers and watercourses.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Follow precautions for safe handling described in this safety data sheet. For personal protection, see Section 8.

Environmental precautions

Environmental precautions Toxic to aquatic life with long lasting effects. To prevent release, place container with damaged side up. Do not discharge into drains or watercourses or onto the ground.

Methods and material for containment and cleaning up

Methods for cleaning up Contain spillage with sand, earth or other suitable non-combustible material. Avoid the spillage or runoff entering drains, sewers or watercourses. Collect spillage for reclamation or disposal in sealed containers via a licensed waste contractor. Containers with collected spillage must be properly labeled with correct contents and hazard symbol. Wash thoroughly after dealing with a spillage.

Reference to other sections For personal protection, see Section 8. For waste disposal, see section 13.

7. Handling and storage

Precautions for safe handling

Usage precautions Avoid spilling. Wear protective clothing as described in Section 8 of this safety data sheet. Do not get in eyes, on skin, or on clothing.

Conditions for safe storage, including any incompatibilities

Bellacide® 337

Storage precautions

Store in a tightly-closed, original container in a dry, cool, and well-ventilated place. Store at temperatures not exceeding 50°C /122°F. Protect from freezing and direct sunlight. If frozen: once thawed, agitate container vigorously to ensure the product is homogeneous. Store away from the following materials; alkalis, acids, cyanides, reducing agents, oxidizing materials and aluminum. Do not use containers made of Carbon steel. Keep separate from food, feeds, fertilizers, and other sensitive materials.

Specific end uses(s)

Specific end use(s)

The identified uses for this product are detailed in Section 1.

8. Exposure controls/Personal protection

Ingredient comments

No exposure limits known for ingredient(s).

Exposure controls

Protective equipment



Eye/face protection

Wear eye protection.

Hand protection

Wear protective gloves. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with OSHA 1910.138 and be demonstrated to be impervious to the chemical and resist degradation. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected.

Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures

Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash station. No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products. Contaminated clothing should be placed in a closed container for disposal or decontamination.

Respiratory protection

Wear a suitable dust mask.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Clear liquid.
Color	Colorless.
Odor	Slight.
Odor threshold	Not available.
pH	5.0-6.0
Melting point	-1.2°C
Initial boiling point and range	Not available.
Boiling Point:	Not available
Freezing Point:	
Flash point	Not available.

Bellacide® 337

Evaporation rate	Not available.
Evaporation factor	Not available.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	Not applicable.
Vapor pressure	No information available.
Vapor density	Not available.
Relative density	SG20/20: 1.0
Bulk density	No information available.
Auto-ignition temperature	Not available.
Decomposition Temperature	No information available.
Viscosity	Not available.
Explosive properties	Not considered to be explosive.
Oxidizing properties	Does not meet the criteria for classification as oxidizing.

10. Stability and reactivity

Reactivity	There are no known reactivity hazards associated with this product.
Stability	Stable at normal ambient temperatures.
Conditions to avoid	Avoid contact with the following materials: Oxidizing agents. Reducing agents. Alkalis.
Materials to avoid	Strong acids. Strong alkalis. Strong reducing agents.

11. Toxicological information

Information on toxicological effects

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 3,129.0

Species Rat

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

ATE dermal (mg/kg) 21,568.63

Acute toxicity - inhalation

ATE inhalation (dusts/mists mg/l) 9.8

Skin corrosion/irritation

Skin corrosion/irritation Irritating to skin.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye damage.

Respiratory sensitization

Respiratory sensitization No information available.

Bellacide® 337**Skin sensitization**

Skin sensitization Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro Does not contain any substances known to be mutagenic.

Carcinogenicity

Carcinogenicity Does not contain any substances known to be carcinogenic.

Reproductive toxicity

Reproductive toxicity - fertility Does not contain any substances known to be toxic to reproduction.

Aspiration hazard

Aspiration hazard Not anticipated to present an aspiration hazard, based on chemical structure.

12. Ecological information

Ecotoxicity The product contains a substance which is very toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

13. Disposal considerations**Waste treatment methods**

General information When handling waste, the safety precautions applying to handling of the product should be considered.

Disposal methods Absorb in vermiculite, dry sand or earth and place into containers. Dispose of waste via a licensed waste disposal contractor. Dispose of waste product or used containers in accordance with local regulations

14. Transport information

General No other information known.

UN Number

UN No. (International) 3082

UN No. (TDG) 3082

UN No. (IMDG) 3082

UN No. (ICAO) 3082

UN No. (DOT) 3082

UN proper shipping name

Proper shipping name (International) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains 2-BROMO-2-NITROPROPANE-1,3-DIOL) 9, PG III

Proper shipping name (TDG) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains 2-BROMO-2-NITROPROPANE-1,3-DIOL) 9, PG III

Proper shipping name (IMDG) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains 2-BROMO-2-NITROPROPANE-1,3-DIOL) 9, PG III

Proper shipping name (ICAO) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains 2-BROMO-2-NITROPROPANE-1,3-DIOL) 9, PG III

Proper shipping name (DOT) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains 2-BROMO-2-NITROPROPANE-1,3-DIOL) 9, PG III

Bellacide® 337**Transport hazard class(es)**

**Transport Labels
(International)** 9

Transport labels**Packing group**

Packing group (International) III

DOT packing group III

Environmental hazards

Environmentally Hazardous Substance

**15. Regulatory information****Inventories**

JAPAN- IHSL

Japan MITI

Taiwan -TCSI

16. Other information

Revision comments	Section 2_ Added Health Hazard: Acute Oral and in Section 9_ added Melting Point
Issued by	BWA Water Additives Regulatory Group, +44(0)1618646699
Revision date	5/31/2019
Revision	1
Supersedes date	4/10/2018
SDS No.	21747
Hazard statements in full	H302 Harmful if swallowed. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H318 Causes serious eye damage. H331 Toxic if inhaled. H335 May cause respiratory irritation. H400 Very toxic to aquatic life. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.