

SAFETY DATA SHEET

BARTOLINE FUNGICIDAL WASH

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name BARTOLINE FUNGICIDAL WASH
 Product No. TBC
 REACH Registration number NOT APPLICABLE THIS IS A MIXTURE

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

Identified uses A ready to use biocidal product to kill and inhibit the growth of mould, algae, lichen and mildew.
 Uses advised against Any other use than described above.

1.3. Details of the supplier of the safety data sheet

Supplier Bartoline limited
 Barmston Close
 Beverley
 East Yorkshire
 HU17 0LW
 01482 678710
 01482 872606
 HSE MANAGER
 www.bartoline.co.uk

1.4. Emergency telephone number

01482 678727 0800-1700 Monday to Friday NHS Direct (General Public & Workers) 0845 4647

National Emergency Telephone Number

National Poisons Information Service (24hours) 0844 892 0111

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (1999/45/EEC) Not classified.

2.2. Label elements

Risk Phrases
 NC Not classified.
 Safety Phrases
 NC Not classified.

2.3. Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

QUATERNARY AMMONIUM COMPOUNDS		1-5%
CAS-No.: 63449-41-2	EC No.: 264-151-6	
Classification (EC 1272/2008)	Classification (67/548/EEC)	
Acute Tox. 4 - H302	C;R34	
Acute Tox. 4 - H312	Xn;R21/22	
Skin Corr. 1B - H314	N;R50	
Aquatic Acute 1 - H400		

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

REACH Registration number NOT APPLICABLE THIS IS A MIXTURE

BARTOLINE FUNGICIDAL WASH

Ingredient notes

Contains: Benzalkonium Chloride 1.5%w/w (1.5g/l).

Composition Comments

This is a ready to use water based mixture containing an active ingredient.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information

When breathing is difficult, properly trained personnel may assist affected person by administering 100% oxygen.

Inhalation

Move the exposed person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.

Ingestion

NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Rinse mouth thoroughly. Get medical attention if any discomfort continues.

Skin contact

Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

Eye contact

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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

General information

The severity of the symptoms described will vary dependant of the concentration and the length of exposure.

Inhalation.

may cause irritation of the mucous membranes and respiratory tract.

Ingestion

May cause chemical burns in mouth and throat.

Skin contact

Prolonged contact may cause redness, irritation and dry skin.

Eye contact

Irritation of eyes and mucous membranes.

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

If swallowed, the following treatment is recommended: Gastric irrigation with activated carbon.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media

None

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

In case of fire, toxic gases (CO, CO₂, NO_x) may be formed.

Unusual Fire & Explosion Hazards

No unusual fire or explosion hazards noted.

Specific hazards

Fire water contaminated with this product must be contained and prevented from being discharged to any waterway, sewer or drain.

5.3. Advice for firefighters

Special Fire Fighting Procedures

Keep run-off water out of sewers and water sources. Dike for water control.

Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Eye contact MUST be prevented by means of suitable personal protection equipment. Avoid inhalation of spray mist and contact with skin and eyes. In case of spills, beware of slippery floors and surfaces.

6.2. Environmental precautions

Do not discharge onto the ground or into water courses. As this product is supplied in packagings of 500ml there is a low risk of any environmental damage. If however there is a large accidental release the following advice is given: To prevent release, place container with damaged side up. Contain spillages with sand, earth or any suitable adsorbent material.

6.3. Methods and material for containment and cleaning up

Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Flush with plenty of water to clean spillage area. Do not contaminate water sources or sewer.

6.4. Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet. The product contains a substance which is hazardous to aquatic organisms and which may cause long term adverse effects in the aquatic environment. See section 12 as well. See section 11 for additional information on health hazards. Collect and dispose of spillage as indicated in section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid spilling, skin and eye contact. Do not handle broken packages without protective equipment. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. Do not eat, drink or smoke when using the product. Avoid inhalation of vapours and spray mists. USE ONLY AS A SURFACE BIOCIDES. TO AVOID RISK TO MAN AND THE ENVIRONMENT, COMPLY WITH THE INSTRUCTIONS FOR USE.

7.2. Conditions for safe storage, including any incompatibilities

Keep in original container. Keep away from food, drink and animal feeding stuffs. Keep above the chemical's freezing point to avoid rupturing the container. Store in closed original container at temperatures between 5°C and 30°C.

Storage Class

Miscellaneous hazardous material storage.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

Usage Description

Keep out of reach of children. Apply "common sense" measures when using this product. Avoid all contact with skin and eyes. USE ONLY AS A SURFACE BIOCIDES IN ACCORDANCE WITH THE ON PACK INSTRUCTIONS.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
QUATERNARY AMMONIUM COMPOUNDS	WEL	No std.	No std.	No std.	No std.	

WEL = Workplace Exposure Limit.

Ingredient Comments

No exposure limits noted for ingredient(s).

8.2. Exposure controls

Protective equipment



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Engineering measures

No specific ventilation requirements noted, except this product must not be used in a confined space without good ventilation.

Respiratory equipment

No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

Hand protection

Use suitable protective gloves if risk of skin contact. Nitrile gloves are recommended.

Eye protection

Where there is a risk of splashes to the eyes it is recommended that safety glasses/goggles approved to EN166 standard are worn.

Other Protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures

DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

Environmental Exposure Controls

Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Colourless.
Odour	Almost odourless.
Solubility	Soluble in water.
Initial boiling point and boiling range	100
Melting point (°C)	0
Relative density	0.989 - 1.009
Vapour density (air=1)	Not relevant
Vapour pressure	23 mbar 20
Evaporation rate	Not relevant
Evaporation Factor	Not relevant
pH-Value, Conc. Solution	7.0 - 7.5
Viscosity	30 - 35 cSt
Decomposition temperature (°C)	Not relevant
Odour Threshold, Lower	Not relevant
Flash point	>100 CC (Closed cup).
Auto Ignition Temperature (°C)	Not Explosive
Partition Coefficient (N-Octanol/Water)	Not known.
Explosive properties	Not explosive (EC A 9, closed cup)
Oxidising properties	Does not meet the criteria for oxidising.
Comments	Information declared as "Not available, Not relevant or Not applicable" is not considered justified for enabling proper control measures to be taken.

9.2. Other information

BARTOLINE FUNGICIDAL WASH**Volatile Organic Compound (VOC)**

Not applicable.

SECTION 10: STABILITY AND REACTIVITY**10.1. Reactivity**

No specific reactivity hazards associated with this product.

10.2. Chemical stability

Stable under normal temperature conditions.

10.3. Possibility of hazardous reactions

None under normal processing.

Hazardous Polymerisation

Will not polymerise.

10.4. Conditions to avoid

Avoid excessive heat for prolonged periods of time. Avoid frost.

10.5. Incompatible materials**Materials To Avoid**

No specific, or groups of materials are likely to react to produce a hazardous situation.

10.6. Hazardous decomposition productsIn case of fire, toxic gases (CO, CO₂, NO_x) may be formed.**SECTION 11: TOXICOLOGICAL INFORMATION****11.1. Information on toxicological effects****Aspiration hazard:****Viscosity**Kinematic viscosity <= 20.5 mm²/s.

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

Inhalation

In high concentrations, vapours may irritate throat and respiratory system and cause coughing.

Ingestion

May cause discomfort if swallowed.

Skin contact

Liquid may irritate skin.

Eye contact

Spray and vapour in the eyes may cause irritation and smarting.

Route of entry

Inhalation. Skin and/or eye contact. Ingestion.

Medical Considerations

Skin disorders and allergies. Pre-existing eye problems. Splash in eye requires examination by eye specialist.

Specific effects

Prolonged or repeated contact with used oil may cause serious skin diseases, such as dermatitis.

Toxicological information on ingredients.

BARTOLINE FUNGICIDAL WASH
QUATERNARY AMMONIUM COMPOUNDS (CAS: 63449-41-2)

Acute toxicity:**Acute Toxicity (Oral LD50)**

~ 795 mg/kg Rat

Acute Toxicity (Dermal LD50)

~ 1560 mg/kg Rat

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Not regarded as dangerous for the environment. The product contains substances which are toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

12.1. Toxicity**Ecological information on ingredients.**

QUATERNARY AMMONIUM COMPOUNDS (CAS: 63449-41-2)

Acute Toxicity - FishLC50 96 hours ~ 1.7 mg/l *Onchorhynchus mykiss* (Rainbow trout)**EC 50, 48 Hrs, Daphnia, mg/l**

0.03

Acute Toxicity - Aquatic PlantsEC50 96 hours ~ 0.06 mg/l *Selenastrum capricornutum***12.2. Persistence and degradability****Degradability**

This surfactant complies with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer. The product ingredients can be readily eliminated in the sewage system. Degree of biological degradability >60%.

Ecological information on ingredients.

QUATERNARY AMMONIUM COMPOUNDS (CAS: 63449-41-2)

Degradability

The product ingredients can be readily eliminated in the sewage system.

12.3. Bioaccumulative potential**Bioaccumulative potential**

The product is not bioaccumulating.

Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected. log Kow 0.5 - 1.58 BAC

Partition coefficient

Not known.

12.4. Mobility in soil**Mobility:**

The product is soluble in water.

12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

12.6. Other adverse effects

SECTION 13: DISPOSAL CONSIDERATIONS

BARTOLINE FUNGICIDAL WASH

General information

Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority. When handling waste, consideration should be made to the safety precautions applying to handling of the product. Where possible packaging should be collected for reuse or recycling.

13.1. Waste treatment methods

Residues and empty containers should be taken care of as hazardous waste according to local and national provisions. Recover and reclaim or recycle, if practical. Used containers can be cleaned with water and either reused or disposed of as non hazardous waste.

Waste Class

Empty plastic containers can be disposed of using EU Waste code 15 01 02 plastic packaging. When this product is in its liquid state as supplied and becomes waste it should be disposed off as organic wastes containing dangerous substances (waste code 16 03 05*). These codes have been assigned based on the actual composition of the product both as supplied and as dried residues. If mixed with other wastes, the waste codes quoted may not be applicable.

SECTION 14: TRANSPORT INFORMATION

General	The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).
Road Transport Notes	Not Classified
Rail Transport Notes	Not classified.
Sea Transport Notes	Not classified.
Air Transport Notes	Not classified.

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

14.6. Special precautions for user

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

SECTION 15: REGULATORY INFORMATION

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

Uk Regulatory References

Health and Safety at Work Act 1974. The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments. Chemicals (Hazard Information & Packaging) Regulations.

Environmental Listing

Control of Pollution Act 1974. The surfactants contained in this product comply with the biodegradability criteria laid down in EC No 648/2004 Articles 4 and 9 on detergents. Data to support this assertion is held at the disposal of the competent authorities of the Member States and will be made available to them on their request.

Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

Approved Code Of Practice

Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations.

Guidance Notes

Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

EU Legislation

Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

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National Regulations

Health and Safety at Work Act (As Amended) 1974 Control of Substances Hazardous to Health Regulations 2002 (as amended) Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. Users of this product are reminded of their duties under the current Control of Substances Hazardous to Health Regulations and a suitable and sufficient assessment of all the risk should be undertaken before using this product. The guidelines given in the HSE publication COSHH ESSENTIALS - Easy Steps To Control Chemicals gives sound advice for deciding safe working control measures.

Authorisations (Title VII Regulation 1907/2006)

No specific authorisations are noted for this product.

Restrictions (Title VIII Regulation 1907/2006)

No specific restrictions of use are noted for this product.

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

General information

This product has been authorised under the Control Of Pesticides Regulations. STATUTORY CONDITIONS OF APPROVAL RELATING TO USE. FOR USE ONLY AS A SURFACE BIOCIDES. APPLY AT A RATE OF 500ml OF PRODUCT PER 2.5 SQUARE METRES OF SURFACE by spray, cloth or sponge. Users must comply in full with all their legal responsibilities under the Control of Pesticides regulations 1986 (as amended), including complying with all Conditions of Approval. WEAR SUITABLE PROTECTIVE CLOTHING AND GLOVES. WHEN USING DO NOT EAT, DRINK OR SMOKE. ENSURE THERE IS A PHYSICAL BARRIER TO PREVENT CONTACT BY UNPROTECTED PERSONS AND ANIMALS UNTIL TREATED SURFACES ARE DRY. Do not contaminate ground or watercourses with chemicals or used container. Do not empty into drains. REMOVE OR COVER ALL FISH TANKS AND BOWLS before application. DO NOT USE NEAR DRAINS, PREVENT ANY SURFACE RUN OFF FROM ENTERING DRAINS. AVOID ALL CONTACT WITH PLANT LIFE. COVER WATER STORAGE TANKS before application. DO NOT CONTAMINATE FOODSTUFFS, EATING UTENSILS OR FOOD CONTACT SURFACES

Training Advice

The information on directions for use can be found on the product label. It is important to ensure that anyone using this product in the workplace has been adequately trained and in particular: The use of personal protective equipment. methods of cleaning up and disposal of waste. The basic first aid arrangements.

Risk Phrases In Full

R34	Causes burns.
R21/22	Harmful in contact with skin and if swallowed.
NC	Not classified.
R50	Very toxic to aquatic organisms.

Hazard Statements In Full

H314	Causes severe skin burns and eye damage.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H400	Very toxic to aquatic life.

Disclaimer

The information contained in this data sheet is provided in accordance with the requirements of the Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) The product should not be used for purposes other than those shown in Section 1.2. As the specific conditions of use are outside the suppliers control, the user is responsible for ensuring that the requirements of relevant legislation are complied with. The information contained in this safety data sheet is based on the present knowledge and the current EC and Uk Legislation. It provides guidance on health, safety and environmental aspects of the product and should not be taken as a product specification.