

1. IDENTIFICATION OF THE SUBSTRATE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name/designation: Caltech Fungicidal Wash.

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

Relevant identified uses: Intended for use as a fungicidal wash.

1.3 Manufacturer/Supplier

Supplier:
Alumasc Building Products Ltd
White House Works, Bold Road, Sutton, St Helens, Merseyside, United Kingdom, WA9 4JG
Tel: +44 (0)1744 648400
e-mail: technical@alumascroofing.com

1.4 Manufacturer/Supplier

Emergency telephone: 01744 648 400 - (Mon-Thurs – 08.30-17.00 Fri – 08.30-16.00)

2. HAZARDS IDENTIFICATION

Hazards:

Irritating to eyes and skin.

Classification (1999/45):

Xi;R36/38.

Environment:

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.

Human health:

Prolonged contact may cause redness, irritation and dry skin. Prolonged and repeated contact with solvents over a long period of time may lead to permanent health problems.

3. COMPOSITION AND INFORMATION ABOUT THE COMPONENTS

Substances:

Biocidal solution.

Mixture:

Name	EC No.	CAS-No.	Content %	Classification (67/548/EEC)
Quaternary Ammonium Compounds	264-151-6	63449-41-2	1.0-2.5%	C;R34 Xn;R21/22 N;R50
Propan-2-Ol	200-661-7	67-63-0	< 1%	F;R11 Xi;R36 R67
2-Phenylphenol (Iso)	201-993-5	90-43-7	< 1%	Xi;R36/37/38 N;R50

The Full Text for all R-Phrases is Displayed in Section 16.

4. FIRST AID MEASURES

General information: General first aid, rest, warmth and fresh air. Do not give victim anything to drink if they are unconscious. Get medical attention if any discomfort continues.

Inhalation: Place unconscious person on the side in the recovery position and ensure breathing can take place. If respiratory problems, artificial respiration/oxygen. Get medical attention if any discomfort continues.

Ingestion: Immediately rinse mouth and drink plenty of water or milk. Keep person under observation. Do not induce vomiting. If vomiting occurs, keep head low. Transport immediately to hospital and bring along these instructions.

Skin contact: Use appropriate hand lotion to prevent defatting and cracking of skin. Immediately remove contaminated clothing. Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water.

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. Get medical attention promptly if symptoms occur after washing.

5. FIRE-FIGHTING MEASURES

Extinguishing media:

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

Special fire-fighting procedures:

Use pressurised air mask if product is involved in a fire. Cool containers exposed to flames with water until well after the fire is out. Keep run-off water out of sewers and water sources. Dike for water control.

Unusual fire & explosion hazards:

Fire causes formation of toxic gases.

Protective measures in fire:

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Wear protective clothing as described in Section 8 of this safety data sheet.

Environmental precautions:

Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

Spill clean-up methods:

Absorb in vermiculite, dry sand or earth and place into containers. Wash thoroughly after dealing with a spillage.

7. HANDLING AND STORAGE

Usage precautions:

Avoid spilling, skin and eye contact. Observe good chemical hygiene practices.

Storage precautions:

Store in tightly closed original container in a dry, cool and well-ventilated place. Protect from freezing and direct sunlight. Keep in original container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
Propan-2-Ol	WEL	400 ppm	999 mg/m ³	500 ppm	1250 mg/m ³	

WEL: Workplace Exposure Limit.

Ingredient comments:

WEL: Workplace Exposure Limits.

Protective equipment:



Process conditions:

Provide eye wash station.

Engineering measures:

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded. All handling to take place in well-ventilated area.

Respiratory equipment:

Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours.

Hand protection:

Protective gloves should be used if there is a risk of direct contact or splash.

Eye protection:

Wear splash-proof eye goggles to prevent any possibility of eye contact.

Other protection:

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures:

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquid.
Colour:	Clear.
Odour	Mild.
Solubility:	Miscible with water.
Relative density:	1.00 Approx. @20°C.
Vapour density (air=1):	Heavier than air.
Ph value, conc. Solution:	7-8.

10. STABILITY AND REACTIVITY

Stability:

No particular stability concerns.

Hazardous decomposition products:

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

11. TOXICOLOGICAL INFORMATION

Skin contact:

Prolonged or repeated exposure may cause severe irritation.

Eye contact:

Irritating and may cause redness and pain.

Propan-2-OL:

Toxic dose 1 - LD 50: 4700 – 5500 mg/kg (oral rate).
Toxic conc. - LC 50: 47 -73 mg/l/4h (inh-rat).

2-Phenylphenol (ISO):

Toxic dose 1 - LD 50: 2700 mg/kg (oral rat).
Toxic conc. - LC 50: >36 mg/l/4h (inh-rat).

Quaternary Ammonium compounds:

Toxic dose 1 - LD 50: 600 mg/kg (oral rat).

12. ECOLOGICAL INFORMATION

Ecotoxicity:

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

Propan-2-OL:

LC 50, 96 Hrs, Fish mg/l: 9600.
EC 50, 48 Hrs, Daphnia, mg/l: 4600.

2-Phenylphenol (ISO):

LC 50, 96 Hrs, Fish mg/l: 4.
EC 50, 48 Hrs, Daphnia, mg/l: 1.5.
IC 50, 72 Hrs, Algae, mg/l: 0.98.

Quaternary Ammonium compounds:

LC 50, 96 Hrs, Fish mg/l: 0.85.
EC 50, 48 Hrs, Daphnia, mg/l: 0.016.
IC 50, 72 Hrs, Algae, mg/l: 0.03.

13. DISPOSAL CONSIDERATIONS

General information:

Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.

Disposal methods:

Dispose of waste and residues in accordance with local authority requirements. Absorb in vermiculite or dry sand and dispose of at a licenced hazardous waste collection point.

14. TRANSPORT INFORMATION

General:

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID). No transport warning sign required.

Environmentally hazardous substance/marine pollutant:

No.

15. REGULATORY INFORMATION

Labelling:



Irritant.

Risk phases:

R36/38: Irritating to eyes and skin.

Safety phases:

S2: Keep out of the reach of children.
S24/25: Avoid contact with skin and eyes.
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S35: This material and its container must be disposed of in a safe way.
S37: Wear suitable gloves.
S39: Wear eye/face protection.
S46: If swallowed, seek medical advice immediately and show this container or label.

16. OTHER INFORMATION

EU Directives:

System of specific information relating to Dangerous Preparations. 2001/58/EC. Dangerous Preparations Directive 99/45/EC.

Approved Code of Practice:

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

National Regulations:

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. No. 1689. Workplace Exposure Limits 2005 (EH40)

Risk phases in full:

R34:	Causes burns.
R21/22:	Harmful in contact with skin and if swallowed.
R11:	Highly flammable.
R36/37/38:	Irritating to eyes, respiratory system and skin.
R67:	Vapours may cause drowsiness and dizziness.
R50:	Very toxic to aquatic organisms.

This information is provided in accordance with the current status of our knowledge and experience. The Safety Data Sheet describes products with a view to relevant safety requirements. This information does not constitute a warranty of properties, features or qualities.

DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

