

MATERIAL SAFETY DATA SHEET

Product Name: Tilewash Version: 1.1

Issued: 01/07/2006

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1. IDENTIFICATION OF THE MATERIAL AND THE COMPANY

Product name: Tilewash
Other names: -
Recommended Use: Mould and Lichen Killer
Supplier: Flexitech Pty. Ltd.
A.B.N. 84 060 559 846
Street Address: 67 Boundary Road
Carole Park, Queensland, 4300
Telephone: 61 7 38793877
Facsimile: 61 7 3879 4299
Emergency telephone number: 1 800 657165 or 0418 560 223 after hours

2. HAZARDS IDENTIFICATION

This material is classified as hazardous according to health criteria of NOHSC Australia.
Hazard Classification: Hazardous Substance - Corrosive (C). Dangerous Goods - Class 8
Risk Phrases: R34 – Causes burns.
R31 – Contact with acids liberates toxic gas
Safety Phrases: S26 – In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or Poisons Information Centre.
S37/39 – Wear suitable gloves and eye/face protection.
S45 – In case of accident or if you feel unwell, contact a doctor or Poisons Information Centre 131 126 immediately (show label where possible).

Classified as HAZARDOUS according to criteria of NOHSC.

Classified as DANDEROUS GOODS according to the Australian Dangerous Goods Code.

3. COMPOSITION / INFORMATION ON INGREDIENTS

| Chemical Name | CAS Number | Proportion |
|---------------------|------------|------------|
| Sodium Hypochlorite | 7681-52-9 | 10-30% |
| Sodium Hydroxide | 1310-73-2 | <1% |

Other ingredients classified as not hazardous according to the criteria of NOHSC

4. FIRST AID MEASURES

Swallowed: For advice, contact a Poisons Information Centre (Phone 131126) or a doctor at once.
Rinse mouth with water. Give water to drink. Do NOT induce vomiting.

Eye: If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Seek medical assistance.

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Skin: If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If irritation occurs, seek medical advice. Wash contaminated clothing before re-use.

Inhalation: Remove from contaminated area immediately to fresh air; avoid becoming a casualty. If breathing is difficult give oxygen. If not breathing apply artificial resuscitation. Seek medical advice.

First Aid Facilities: Use should be made of an on-site approved first aid kit if required in the instance until medical assistance is forthcoming.

Advice to Doctor: Treat symptomatically. Show this M.S.D.S. to the medical practitioner.

5. FIRE FIGHTING MEASURES

Extinguishing media: Use extinguishing agents appropriate for surrounding fire. Water spray may be used to cool containers.

Specific hazards: This material is non-flammable and non-combustible. Heat and acid contamination will produce irritating and toxic fumes. May decompose, generating irritating chlorine gas. Fumes may be highly toxic and irritating.

Special protective equipment: Fire fighters to wear full body protective clothing and breathing apparatus. Deluge with water to cool containers. Evacuate area move upwind of fire.

Hazchem Code: 2X

6. ACCIDENTAL RELEASE MEASURES

Personal Protection: Ensure and eye bath and safety shower is available. Operators are recommended to wear full protective clothing, glasses/ goggles, chemical resistant gloves, apron, etc. including footwear.

Spills: Ventilate the area of the spill or leak. For large spills, evacuate the hazard area of unprotected personnel. Wear appropriate protective clothing. Contain with an absorbent such as clay, sand or other suitable material; place in containers for proper disposal. Flush area with water to remove trace residue: dispose of flush solutions as above. For small spills, take up with an absorbent material and place in non-leaking containers; seal tightly for proper disposal. This material is alkaline and may raise the pH of surface waters with low buffering capacity. Remove in accordance with local waste management authority.

Environmental precautions: Prevent spills from entering drains and waterways.

7. HANDLING AND STORAGE

Handling: Handle according to good manufacturing and industrial hygiene practices. Do not drink, eat or smoke while handling. Respect good personal hygiene.

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Storage: Store in original container. Keep container upright in cool dry area. Keep lid of container closed when not in use. If containers become heated decomposition products (mainly oxygen) should be carefully vented.

Materials to avoid: Store away from class 8 acids. Do not mix or contaminate with ammonia, hydrocarbons, acids, alcohols or ethers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National exposure standards: Worksafe Australia assigns no value for Sodium Hypochlorite. However, TWA for chlorine (decomposition product) = 1.0 ppm.

Sodium Hydroxide: TWA – 2mg/ m³

Biological limit values: No Biological Limit values available

Engineering controls: Use in a well-ventilated area. If ventilation is insufficient use a corrosive – resistant ventilation system separate from other exhaust systems. Engineering control methods to reduce hazards are preferred.

Personal protective equipment: Ensure an eye bath and safety shower is available. Operators are recommended to wear full protective clothing, glasses/goggles, chemical resistant gloves, apron etc, including footwear.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, pale yellow, mobile liquid.

Odour: Characteristic, Bleach odour

pH: 12.5 – 13.5

Boiling Point (°C): ca. 100

Melting range (°C): Not relevant

Flash Point > 100

Specific Gravity 1.17 – 1.19

Solubility Totally miscible in water

10. STABILITY AND REACTIVITY

Reactivity Reacts vigorously with acids producing dangerous levels of gaseous chlorine. Incompatible with amines, ammonium salts, aziridine, methanol and phenylacetonitrile.

Conditions to avoid Stability decreases with heat, light exposure, decrease in pH and contamination with heavy metals, such as nickel, cobalt, copper and iron. Use only as directed. Store in accordance with directions given in Section 7 of this MSDS.

Incompatible materials Strong acids, oxidizable materials, reducing agents, ammonia solutions, ether, peroxides, reducing agents and many organic and inorganic chemicals such as paint, kerosene, paint thinners, shellac, grease and oils

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Hazardous decomposition products Chlorine. Additional decomposition products that depend upon pH, temperature and time are sodium chloride, sodium chlorate and oxygen.

11. TOXICOLOGICAL INFORMATION

Health effects from likely routes of exposure.

Swallowed: This material is severely irritating to the gastrointestinal tract. Ingestion can cause nausea and vomiting.

Eye: This material is corrosive to the eyes and can cause permanent damage if not properly treated. High concentrations of vapours will cause irritation.

Skin: Corrosive to the skin.

Inhale: Inhalation of vapours or spray mists at high concentrations and may cause irritation to the mucous membrane and upper respiratory tract.

Chronic Repeated or prolonged skin contact can cause chemical burns

Toxicity data: By ingestion, Grade 1: oral rat LD₅₀ = 8.91 g/kg.

12. ECOLOGICAL INFORMATION

Avoid contaminating waterways. This material may be harmful to aquatic life in low concentrations.

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with all Local, State and Federal regulations at an approved waste disposal facility.

14. TRANSPORT INFORMATION

| | UN Number | Proper Shipping Name | Class | Sub-class | Hazchem | Pack Grp |
|------------|--|----------------------|-------|-----------|---------|----------|
| Road (ADR) | 1791 | Hypochlorite Soln | 8 | - | 2X | III |
| AIR (IATA) | Consult Flexitech Pty Ltd. if shipping by air | | | | | |
| SEA (IMDG) | Consult Flexitech Pty. Ltd. is shipping by sea | | | | | |

Special precautions for user: Store away from class 8 acids.

15. REGULATORY INFORMATION

This material is classified as hazardous according to health criteria of NOHSC Australia.

MSDS version 1

Flexitech Pty. Ltd, 67 Boundary Road
Carole Park, Qld 4300
Web: www.roofreviver.com.au

Date of Revision: 01 July 2006

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Hazard Classification: Corrosive (C)
Risk Phrases: R34 – Causes burns.
R31 Contact with acids liberates toxic gas.
Safety-phrases S(1/2) – 28-45-50 Keep blocked and out of reach of children. After contact with skin wash immediately with plenty of water. In case of an accident, or if you feel unwell, contact a doctor or Poisons Information Centre 131 126. Do not mix with other chemicals without prior approval from the manufacturer.
Contains: Sodium Hypochlorite.
Poisons schedule S5

16. OTHER INFORMATION

DO NOT MIX WITH OTHER CHEMICALS WITHOUT PRIOR CONSULTATION WITH THE MANUFACTURER. Always use product as directed. Never use product as directed. Never return any unused material to original drum.

CONTACT POINT

Name: Mr. Timothy Rundle
Title: Chief Executive Officer
Flexitech Pty. Ltd
Telephone (Working Hours): (07) 3879 3877
Telephone (Working Hours): 1 800 675 165
Telephone (Mobile): 0418 560 223
Email timr@flexitechpl.com.au
Web site www.roofreviver.com.au
Review Date: 30 June 2007

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This Material Safety Data Sheet summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and how to safely handle and use the product. Since Flexitech Pty. Ltd. cannot anticipate or control the conditions under which the product may be used, prior to use, all users should satisfy themselves that they have all current data relevant to their particular use. If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

-END of MSDS