

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF PRODUCT AND COMPANY

Product: Monoprufe WS - Liquid
Company: Ronacrete (Far East) Ltd., 16/F, No. 3 Lockhart Rd,
Wanchai, Hong Kong SAR
Tel/Fax: +852 2865 5872 / +852 2865 5568

2. COMPOSITION

Approximately 20% aqueous dispersion of a copolymer based on n-butyl acrylate styrene.
To be used with Monoprufe WS – Powder.

3. HAZARDS IDENTIFICATION

Advice on critical hazard to man and the environment: none.

4. FIRST AID MEASURES

General advice: Remove contaminated clothing.
Inhaled: Keep patient calm, remove to fresh air, summon medical help.
Skin Contact: Wash thoroughly with soap and water.
Eye Contact: Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.
Ingestion: Immediately rinse mouth and then drink plenty of water, summon physician.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media.
Water spray, dry extinguishing media, foam, Carbon Dioxide (CO₂).

6. ACCIDENTAL RELEASE MEASURES

After spillage/leakage/gas leakage:
Large spillages should be pumped into containers; soak up remainder with absorbent material (e.g. Kieselgur). Small spillages can be swilled away with water. Waste water must be disposed of correctly.

7. HANDLING AND STORAGE

Handling: Advice on safe handling: No special measures necessary.
Storage: Store protected against freezing.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

N-butyl acrylate	CAS No: 141-32-2
Styrene	CAS No: 100-42-5
Ethylbenzene	CAS No: 100-41-4
Acrylamide	CAS No: 79-06-1
Formaldehyde	CAS No: 50-00-0
n-butanol	CAS No: 71-36-3

Refer to the current edition of HSE Guidance Note EH 40 on Occupational Exposure Limits (United Kingdom).

This product should be considered when making any assessment under the UK Control of Substances Hazardous to Health Regulations (COSHH) and amendments (United Kingdom).

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Personal protective equipment

Eye protection:

Goggles

General safety and hygiene measures:

Hands and/or face should be washed before breaks and at the end of the shift. Avoid contact with eyes and prolonged skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Liquid

Colour: White

Odour: Faint

Change in physical state

Solidification temperature: Approximately 0°C (water)

Boiling point: Approximately 100°C (water)

Flash point: Not applicable

Explosion limits:

- lower none

- upper none

Ignition temperature: Not applicable

Vapour pressure: (20°C) 23mbar (water)

Density: (20°C) approximately 1.04g/cm³ DIN 53 217

Solubility in water: miscible

pH value: (23°C) approximately 7.0-8.5 DIN 53 785

Viscosity: (23°C) approximately 140-200mPa.s (250 s E-1) DIN 53 019

VOC: < 250 grams per litre

10. STABILITY AND REACTIVITY

Thermal decomposition: No decomposition if used correctly.

Hazardous reactions: None.

11. TOXICOLOGICAL INFORMATION

In our experience and according to information available to us the products is not harmful to health provided it is correctly handled and processed according to the given recommendations.

12. ECOLOGICAL INFORMATION

Elimination information

The product can be virtually eliminated from water and abiotic processes e.g. adsorption onto Activated sludge. Do not discharge product into natural waters without pretreatment (biological treatment plant).

Behaviour and environmental fate

Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

Ecotoxic effects

Further ecological information

Local effluent treatment regulations should be complied with.

13. DISPOSAL CONSIDERATIONS

Must be disposed of by special means, e.g. suitable incineration, in accordance with local regulations. The UK Environmental Protection (Duty of Care) Regulations (EP) and amendments should be noted (United Kingdom).

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14. TRANSPORT INFORMATION

Not classified as hazardous under transport regulations.

15. REGULATORY INFORMATION

Not subject to labelling in accordance with EEC Directives.

Handle in accordance with good industrial hygiene and safety practice.

National legislation/regulations:

Type of Regulated Paint under the Air Pollution Control (Volatile Organic Compounds) Regulation of Hong Kong: Waterproofing sealers

16. OTHER INFORMATION

The information given here is to the best of our knowledge true and accurate and is provided solely for making safety assessments. It is not a sales specification or an indication of suitability for a particular use.

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1. IDENTIFICATION OF PRODUCT AND COMPANY

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2. COMPOSITION

Composition: Portland cement based waterproofing slurry used with Monoprufe WS - Liquid.

Hazardous Ingredients	Symbol	Risk Phrases	CAS No	%
Portland cement	Xi	R36/37/38	65997-15-1	>20 <50

3. HAZARDS IDENTIFICATION

Irritant to eyes, respiratory system and skin.

4. FIRST AID MEASURES

Eyes: Irrigate immediately with copious quantities of water for several minutes. Obtain medical attention immediately.

Skin: Remove contaminated clothing. After contact with skin wash immediately with plenty of clean water. Seek medical attention if irritation persists.

Inhalation: Remove from exposure, rest and keep warm and obtain medical attention immediately.

Ingestion: Wash out mouth with water. Do NOT induce vomiting. Obtain medical attention.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Will not support combustion. Compatible with all standard fire fighting equipment.

Special Exposure Hazards: None.

Special Protective Equipment: None.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear suitable protective clothing, gloves and eye/face protection.

Environmental Precautions: Prevent entry into drains, sewers and water courses.

Cleaning up Methods: Carefully sweep or vacuum up the product and transfer to marked containers to await disposal. Wash away any residue with plenty of water.

7. HANDLING AND STORAGE

Handling: Avoid creating dust. Avoid breathing dust. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid skin and eye contact.

Storage: Store in dry frost free conditions below 35^oC.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupation Exposure Limits:-

Substance	8 hour TWA	Source/Other Information
silica, amprohours:		EH40
total inhalable dust	6 mg/m ⁻³	
respirable dust	3 mg/m ⁻³	
Portland cement:		EH40
total inhalable dust	10 mg/m ⁻³	
respirable dust	5 mg/m ⁻³	
Activators	10mg/m ³ /5mg/m	EH40

Further information is given in guidance note EH44 - dust in the workplace.

RESPIRATORY: Normal conditions of ventilation are usually adequate. Wear a fine particle mask or use local ventilation as necessary when mixing in confined areas with inadequate ventilation or whenever there is a risk of the exposure limited being exceeded. This applies not only to the user, but all people who cannot be vacated from the work area.

HAND: Use heavy duty gloves. Barrier creams may help to protect exposed areas but are not suitable for full physical protection. They should not be applied once exposure has occurred.

EYE: Eye protection designed to protect against liquid splashes, conforming to BS2092 Chemical Grade, should be worn when handling to dry powder or when there is risk of mixed material entering the eye. Eye protection is essential when handling alkaline material.

SKIN: Wear suitable overalls. Remove grossly contaminated clothing and wash skin with plenty of clean water. Practice good personal hygiene.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Concrete grey powder
Odour:	Odourless
pH:	>12 when mixed with water
Bulk Density:	850 - 1200kg/m ³
Solubility in Water:	Insoluble
VOC:	< 250 grams per litre

10. STABILITY AND REACTIVITY

Stability:	Gives off Carbon Dioxide and heat on mixing with water.
Conditions to Avoid:	Exposures to air. Contamination with water.
Materials to Avoid:	Strong acids.
Hazardous Decomposition Product:	None.

11. TOXICOLOGICAL INFORMATION

Health Effects

On Eyes: Risk of serious damage to eyes.

On Skin: Irritation: See "chronic" effects.

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By Inhalation:	Dust nuisance. Prolonged exposure to dust may cause irritation to the respiratory system.
By Ingestion:	May cause irritation of mouth, throat and digestive tract.
Chronic:	Cement, cementitious grouts and mortars are known to cause both irritant and allergic contact dermatitis. Prolonged skin contact can result in chemical burns.

12. ECOLOGICAL INFORMATION

Product should not be disposed off into rivers or other water courses without pre-treatment. Measures should be taken to prevent the release of dust to the environment. Appropriate additions of low concentrations to biological water treatment plants are not expected to cause any disturbances. Attention must be paid to local water treatment regulations.

13. DISPOSAL CONSIDERATIONS

The product is not classified as hazardous waste and is suitable for controlled waste site disposal. Do not allow into water courses or dispose of where ground of surface waters may be affected.

DISPOSAL MUST BE IN ACCORDANCE WITH LOCAL AND NATIONAL LEGISLATION

14. TRANSPORT INFORMATION

The product is not classified as dangerous for Transport.

15. REGULATORY INFORMATION

Hazard Label Data:-

Names Ingredients: cement powders

Symbol: Xi

Risk Phrases: Irritating to eyes, respiratory system and skin.

Safety Phrases: Do not breath dust. Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection. Occupational exposure limits and standards are advised in Publication EH40 from the HSE for the purpose of regulations 7(1) of the COSHH regulations.

Type of Regulated Paint under the Air Pollution Control (Volatile Organic Compounds) Regulation of Hong Kong: Waterproofing sealers

16. OTHER INFORMATION

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