

**MATERIAL SAFETY DATA SHEET**

## 1) IDENTIFICATION OF PRODUCT AND COMPANY

Product: Monoprufe RTU 201  
Single Component Liquid Applied Polyurethane Waterproofing Membrane

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

Common chemical name / General name	CAS number	Concentration / Concentration range
Heavy Calcium carbonate (CaCO <sub>3</sub> )	471-34-1	51%
Polyether polyol	25214-63-5	20%
1,2,4,5-Tetramethylbenzene	95-93-2	12%
Chlorinated paraffin	61788-76-9	10%
Tolyene-2, 4-diisocyanate (TPI)	584-84-9	3%
Amine adduct with epoxy resin	134091-76-2	1.8%
Iron oxide red	1309-37-1	0.6%
Organotin catalyst (Dibutyltin dilaurate)	77-58-7	0.008%
Water absorbent (Acrylic Acid, Polymers, Sodium Salt)	9033-79-8	0.003%

## 3) HAZARDS IDENTIFICATION

**DANGER:** Contains small quantity of Toluene Diisocyanate which is harmful if inhaled. Inhalation OF Toluene Diisocyanate vapors causes severe irritation to lungs. Pulmonary edema may occur. Pulmonary sensitization can occur in some individuals, leading to asthma-like spasms of the bronchial tubes and difficulty breathing. Individuals with a history of respiratory illness, asthmatic conditions, eye damage or tdi sensitization should not be exposed to this product. Tdi is included in the ntp annual report on carcinogens. Preliminary results from a tdi health study to a respiratory irritant (chlorine or phosgene for example), resulting in lower respiratory tract symptoms could increase the risks of developing asthma-like reactions from subsequent tdi exposure.

**Ways:** Ingestion, skin contact, eye contact, Inhalation

**Health Hazard:** Causing irritation on respiratory system

**Body Hazard:**

**Skin contact:** Liquid may be irritating to the skin and may be capable of causing allergic

**Skin reactions:** Repeated or prolonged contact may lead to dermatitis effects and may cause sensitization in some individuals

**Eye contact:** A severe eye irritant. Long-time eye contact may cause eyes red and tears. Contamination of the eyes can result in permanent injury.

**Ingestion:** Can result in irritation of the gastrointestinal tract, nausea, vomiting, and pain. Considered as an unlikely route of entry in commercial/industrial environments.

**Environmental:**

Prior to application and curing the liquid is potentially toxic to aquatic life with long lasting effect.

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### 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.

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### 5) FIRE FIGHTING MEASURES

**Extinguishing Media foam:**

Carbon dioxide, dry chemical powder.

**Fire Fighting:**

Toxic fumes will be evolved when this material is involved in a fire.

Fire fighters must wear full protective clothing and self-contained breathing apparatus.

**Injurant:**

CO, CO<sub>2</sub>, NOX.

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### 6) ACCIDENTAL RELEASE MEASURES

Use sand or soil to stop it and prevent it from going down into sewer.

Clean leaking area with water and make it solidify fast.

**Minor spill:**

Absorb into waste cloth or other suitable absorbent. Avoid contact with skin or eyes.

**Major spill:**

Contain with sand or earth, absorb with suitable absorbent, collect and seal in properly labeled drums for disposal.

Prevent run-off into drains or waterways.

Disposal suitable for incineration by approved agent or bury in approved landfill according to local regulations.

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### 7) HANDLING AND STORAGE

**Precautions:**

Handle in well ventilated area.

Always observe conditions of good industrial hygiene and safe working practice.

Wear suitable protective clothing.

If spraying the product avoid contact with overspray mists.

Wear full personal coveralls, a mask or respirator, and ensure good extractive ventilation to maintain air concentrations of components below quoted exposure standards.

If you feel unwell, seek medical attention and show the label when possible.

Avoid contact with skin and eyes.

Keep away from incompatibles such as organic materials, acids.

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**Storage:**

Keep container tightly closed.

Keep container in a cool, well-ventilated area.

Do not store above 24°C (75.2°F), not below -10°C (14°F).

**Storage Procedures:**

Containers will develop pressure at high temperatures. Store at room temperature under cover.

## 8) EXPOSURE CONTROLS/PERSONAL PROTECTION

**General Suggestion:**

We advise to use limbic protect glass and clothing which can protect hand and leg.

**Respiratory:**

Ensure adequate ventilation.

Wear organic vapour respirator or self contained breathing apparatus in enclosed areas.

**Hands/feet:**

Rubber gloves, full overalls, safety shoes.

**Eyes:**

Goggles or face shield.

## 9) PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	Liquid
<b>Appearance:</b>	Red liquid
<b>Colour:</b>	Red
<b>Smell:</b>	A little almond
<b>Ph (1% soln/water):</b>	Not applicable
<b>Boiling Point:</b>	No data
<b>Melting Point:</b>	No data
<b>Critical Temperature:</b>	Not applicable
<b>Autoignition Temperature:</b>	Not applicable
<b>Flash Point:</b>	146°C
<b>Density:</b>	1.3g/cm <sup>3</sup> (20°C)
<b>Solubility in water:</b>	Not dissolve with water, react with water
<b>Viscosity:</b>	8000~18000MPa.S (23°C)

## 10) STABILITY AND REACTIVITY

<b>Stability:</b>	Stable for minimum 1 years at room temperature if sealed. Excess heating over long periods will degrade ingredients.
<b>Flammability:</b>	Liquid products will not support combustion. Dry residues can burn if ignited.

## 11) TOXICOLOGICAL INFORMATION

**Eye Effects:**

A severe eye irritant.

**Skin Effects:**

Liquid may be irritating to the skin and may be capable of causing allergic skin reactions.

Repeated or prolonged contact may lead to dermatitis effects and may cause sensitisation in some individuals.

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**Inhalation:**

The vapour is mildly irritating to the mucous membranes and respiratory tract.

The vapour pressure from these products is very low at ambient temperatures and is unlikely to cause exposure from normal handling.

Frequent or prolonged exposure can cause respiratory irritation and may cause sensitisation in some individuals.

Overexposure symptoms include headache, swelling and congestion of the eyes and sinuses.

**Ingestion:**

Can result in irritation of the gastrointestinal tract, nausea, vomiting, and pain.

Considered as an unlikely route of entry in commercial / industrial environments.

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**12) ECOLOGICAL INFORMATION**

<b>Ecotoxicity:</b>	On burning will emit toxic fumes of oxides of nitrogen, carbon monoxide and carbon dioxide.
	Some minor components are toxic to aquatic organisms

Further ecological information

Local effluent treatment regulations should be complied with.

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**13) DISPOSAL CONSIDERATIONS**

Only fit appointed products, if mix with other materials, maybe follow another method, any question please contact us or relative department.

Regarding the castoff and old stock, do not treat with life water, do not discharge into drain and drainage system.

They empty barrel should be treated by the institution which have certificated.

Please be carefully and do under the national and local law.

The product can be not treated by deep-burying.

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**14) TRANSPORT INFORMATION**

Not defined as a dangerous good, not regulated for transport under UN and local regulations.

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**15) REGULATORY INFORMATION****Federal and State Regulations:**

Illinois toxic substances disclosure to employee act: Aluminium oxide Rhode Island RTK hazardous substances: Aluminium oxide Minnesota: Aluminium oxide Massachusetts RTK: Aluminium oxide New Jersey: Aluminium oxide New Jersey spill list: Aluminium oxide California Director's list of Hazardous Substances: Aluminium oxide TSCA 8(b) inventory: Aluminium oxide SARA 313 toxic chemical notification and release reporting: Aluminium oxide Law Information:

**Other Regulations: EINECS:**

This product is on the European Inventory of Existing Commercial Chemical Substances.

**Other Classifications:**

**WHMIS (Canada):** Not controlled under WHMIS (Canada).

**DSCL (EEC):**

R36/38- Irritation to eyes and skin. S2- Keep out of the reach of children. S46- If swallowed, seek medical advice immediately and show this container or label.

**MATERIAL SAFETY DATA SHEET****HMIS(U.S.A.):**

Health Hazard: 2

Fire Hazard: 0

Reactivity: 0

Personal Protection: E

**National Fire Protection Association (U.S.A.):**

Health: 2

Flammability: 0

Reactivity: 0

Specific hazard:

**Protective Equipment:**

Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Splash goggles.

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**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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Further information may be obtained from :

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