

## MATERIAL SAFETY DATA SHEET

### 1) IDENTIFICATION OF PRODUCT AND COMPANY

Product: Monoprufe RX 600  
Intended use: Waterproofing Coatings  
Supplier: Ronacrete (Far East) Limited  
Telephone: +852 2865 5872  
Facsimile: +852 2865 5568

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### 2) COMPOSITION

A 2 pack system comprising Part A and Part B which are supplied in separate containers to be mixed together at the site of application.

	% by weight	CAS No
Composition of Part A:		
Polyaspartate Polyurea	80%	
Butyl	17%	123-86-4
Composition of Part B:		
Aliphatic isocyanate	87%	101-68-8
Dimethyl Benzene	< 13%	1330-20-7

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### 3) HAZARDS IDENTIFICATION

#### Health Hazards :

If swallow, it will cause nausea, abdominal pain, diarrhea and central nervous system damage, even causing severe problem such as coma, respiratory arrest and death. It also can cause liver and kidney damage. If inhalation, poisoning symptoms are the same as swallow. It has irritation to eyes, skin and respiratory tract.

Environment Hazards : Combustion and explosion Hazards

This product is combustible and irritant.

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### 4) FIRST AID MEASURES

Skin contact : Remove contaminated clothing, rinse with plenty of running water.

Eye contact : Promptly wash eyes with lots of running water or physiological saline thoroughly for at least 15 minutes and get medical attention.

Inhalation : Remove victim immediately from source of exposure to fresh air. Keep open airway. If breath becomes difficult, give oxygen. If stop breathing, give artificial respiration. Get medical attention.

Swallow : Drink enough warm water. Induce vomit. Lavage stomach. Induce catharsis. Get medical attention.

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### 5) FIRE FIGHTING MEASURES

Hazards property :

Flammable. When its vapor contacts with air, it can form explosive mixtures. When contact with fire, high-heat, it can cause combustion and explosion. When contact with oxidants, it can occur strong reaction. Its vapor is heavier than air, so it can spread to a considerable long distance at lower area. If contact with fire source, it can be on fire and re-burning.

Hazardous combustion product :

Carbon monoxide, Carbon dioxide

Fire fighting method :

Firefighters are required to wear respirator, overall firefighting suits to extinguish fire windward. Try to move containers from the site of fire to an empty place. Keep water spraying to cool down containers at the site of fire until fire fighting finishes. If containers at the fire site discolor or the safety pressure relief device produces sound, evacuate immediately. Fire extinguishing agent: water spray, foam, powder, CO<sub>2</sub>, sandy soil.

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### 6) ACCIDENTAL RELEASE MEASURES

Rapidly withdraw persons within leakage contaminated area to safety area for isolation and strictly restrict access. Cut off fire source. Recommend persons for emergency treatment wearing self-contained breathing apparatus, overalls for general operations. Do not direct contact with leaked material. Cut off the source of leakage as far as possible. Prevent flowing to confined space such as sewage, drainage ditch. For small leakage: absorb with sandy soil, vermiculite or other inert materials. For large leakage: build a cofferdam or dig a hole for collection. Use pump to transfer to tanker or exclusive collector, recycle or ship to the waste disposal site.

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### 7) HANDLING AND STORAGE

Handling:

Closed operation and local exhaust. Prevent vapor leakage into the workplace air. Operators must go through specialized training and strictly comply with operational regulations. Operators are recommended to wear self-contained filtrated respirators (half-mask), chemical safety protective goggles, protective overalls, rubber gloves. Away from fire, heat source. Stop smoking at workplace. Use explosion-proof ventilation system and equipment. Before removing liquid and vapor, it can not conduct welding, cutting and other operations. Avoid creating smoke. Avoid contact with oxidizing agents, acids, alkalis, reducing agents. Prepare relative type and quantity of fire-fighting equipment and leakage emergency disposal equipment. Empty containers may have harmful residues.

Storage:

Store in a cool, ventilated warehouse. Be away from fire and heat source. Prevent direct sunlight. Keep container tightly closed. It should be stored separately with oxidants, acids, alkalis, reducing agents and avoided mixing up. Prepare relative type and quantity of fire-fighting equipment. Prepare leakage emergency disposal equipment and suitable collecting material at storage area.

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### 8) EXPOSURE CONTROLS/PERSONAL PROTECTION

Project control :  
Closed operation and local exhaust.

Respiration system protection :

When concentration in the air is out of limited, self-contained filtrated respirators (half-mask) must be worn. When conduct emergency rescue or evacuation, air respirator should be worn.

Eyes protection :  
When necessary, wear chemical safety protective goggles.

Health protection :  
Wear overall.

Hand protection :  
When necessary, wear protective gloves.

Other protection :  
Stop smoking, eating and drinking at workplace. Wash hands before eating. After work, take a shower and change clothes. Keep good hygiene habits.

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### 9) PHYSICAL AND CHEMICAL PROPERTIES

Appearance and nature: from no color to light yellow color liquid.

Solubility: slightly dissolve with water and mixed with most organic solvent.

Viscosity mpa.s/25°C: 200-800

Solid content %:  $\geq 80$

Relative density (compare to water/25°C): 1.08

Flash point/°C: 32±2

Main purpose: polyurea paint (waterproofing layer paint, high weathering resistance, high wear resistance antiseptic coating paint)

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### 10) STABILITY AND REACTIVITY

Prohibited material :  
Strong oxidizing agent, strong acids, strong alkalis, strong reducing agents.

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### 11) TOXICOLOGICAL INFORMATION

Irritation: test with rabbit's eyes: 500mg, light irritation.

Acute toxicity: LD50: 6860 mg/kg (test with big rat's mouth); 8480mg/kg (test with rabbit's skin)

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### 12) ECOLOGICAL INFORMATION

Other harmful effect :

This substance is hazardous to the environment. It is recommended not to get into the environment.

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### 13) DISPOSAL CONSIDERATIONS

Discard disposal method :

It's recommended to use controlled incineration or secure landfill method for disposal. Reuse container at available area or bury it at a specified place.

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### 14) TRANSPORT INFORMATION

Dangerous goods code :

33535 32130

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Package method :

Small opening steel drums; helical opening glass bottle, metal cover pressure opening glass bottle, plastic bottle or metal drum (can) with normal wooden case outside; helical opening glass bottle , plastic bottle or tinsplate barrel (tank) with full pallet grid case, fibreboard case or plywood case outside.

Attention for transportation

When transport by railway, this product should be used tanker prepared by steel enterprise for transportation. It should be applied for relevant government's approval before shipment. During transportation, vehicles should be prepared appropriate variety and quantity of fire-fighting equipment and leakage emergency equipment. In summer, the best time for transportation is in the morning and evening. The tanker used for transportation should have grounding chain. Orifice plate can be installed inside the tank to reduce vibration which will create static electricity. Strictly prohibit mixed loading and mixed transport with oxidants, food chemicals. It should be insulation-proof, rain-proof, heat-proof in transit. Be away from fire source, heat source, high temperature area when stop over. Exhaust pipe of this vehicle must be prepared fire retardant device. Stop using mechanical equipment and tools which can produce sparks for loading and unloading. For road transportation, it should be complied with the prescribed route. Do not stopped in residential area and dense populated area. For railway transportation, stop releasing. Stop using wooden boat, cement boat for bulk transport.

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### 15) REGULATORY INFORMATION

Type of Regulated Paint under the Air Pollution Control (Volatile Organic Compounds)  
Regulation of Hong Kong: Roof Coatings (Exposed)

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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. Further information may be obtained from Ronacrete (Far East) Ltd.