

MATERIAL SAFETY DATA SHEET**1. IDENTIFICATION OF PRODUCT AND COMPANY**

Product: RONAFLEX 1 PU Joint Sealant
General Purpose Construction and Trafficable Grade Polyurethane
Elastomeric Joint Sealant
Company: Ronacrete (Far East) Ltd, 16/F, 3 Lockhart Road, Wanchai, Hong Kong
Tel/Fax: +852 2865 5872 Fax: +852 2865 5568

2. COMPOSITION/INFORMATION ON INGREDIENTS

Composition: Toluene diisocyanate, polyurethane resins, fillers.
Hazardous Ingredients - Risk Phrases - CAS No - %
Toluene diisocyanate - R26/38/41/45 - 584-84-9 - <0.5%
Non-hazardous ingredients - Balance

3. HAZARDS IDENTIFICATION

Xn – Harmful, Risks R20 / R42
Irritant to eyes, respiratory system and skin.

4. FIRST AID MEASURES

Inhalation: Remove victim from exposure and remove any contaminated clothing. Seek immediate medical advice.
Skin contact: Remove contaminated clothing and flush with running water. Seek medical assistance if necessary.
Eye contact: Wash out immediately with water and seek medical advice.
Ingestion: Rinse mouth with water, do NOT induce vomiting. Give a glass of water to drink.
Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.
Notes to physician: Treat symptomatically. Effects may be delayed.

5. FIRE FIGHTING MEASURES

Will support combustion.
Suitable Extinguishing Media: use water spray, foam, dry agent (carbon dioxide, dry chemical powder).

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: Clean up promptly. Work up wind or increase ventilation. Prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. If contamination of sewers or waterways has occurred then advise local emergency services.

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7. HANDLING AND STORAGE

Handling: Avoid skin, eye contact and inhalation. In case of insufficient ventilation, wear suitable respiratory equipment.
Storage: Store in dry frost free conditions below 35°C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupation Exposure Limits:-
Time Weighted Average / Short Term Exposure Limit / Carcinogen Notices for Toluene Di Isocyanate (as -NCO)
0.02 / 0.07 / Sen
TWA - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.
STEL - the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.
'Sen' notice - sensitiser. The substance can cause a specific immune response in some people. An affected individual may subsequently react to exposure to minute levels of that substance. (Medical supervision of all employees who handle or come in contact with respiratory sensitisers is recommended. Personnel with a history of asthma-type conditions, bronchitis or skin sensitization conditions should not work with TDI based products)

9. PHYSICAL AND CHEMICAL PROPERTIES

Form / Colour / Odour: Grey, White or Black paste with solvent odour.
Specific Gravity (20 °C): 1.35
Flash Point (°C): 43 (solids)

10. STABILITY AND REACTIVITY

Chemical stability: This material is stable when stored and used as directed.
Conditions to avoid: Avoid high temperatures
Incompatible Materials: Water, alcohols, amines, strong acids and bases
Hazardous decomposition products: Oxides of carbon and nitrogen, smoke and other toxic fumes which may include isocyanates.
Hazardous reactions: Will react exothermically with water and all organic compounds containing active hydrogen groups.

11. TOXICOLOGICAL INFORMATION

Potential or likely effects if proper handling and storage conditions are not met.
Inhalation: Vapours are harmful if inhaled. A respiratory sensitiser. Can cause possible allergic reactions.
Skin contact: Contact with skin may result in irritation.
Eye contact: Likely harmful.
Ingestion: Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.

12. ECOLOGICAL INFORMATION

Product should not be disposed off into rivers or other water courses without pre-treatment.

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13. DISPOSAL CONSIDERATIONS

Refer to local (national) regulations. Do not allow into water courses or dispose of where ground of surface waters may be affected.

14. TRANSPORT INFORMATION

The product is not classified as dangerous for Transport.

15. REGULATORY INFORMATION

Hazard Label Data:-

Names Ingredients: TDI, Toluene Di-Isocyanate

Symbol: Xn

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

Safety Phrases: Do not breath vapour. 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.

16. OTHER INFORMATION

Training Advice: The user should be trained to handle the products to avoid the release of vapour and be fully aware of the reactions and hazards. The normal precautions relating to handling chemicals must be observed.

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