

# TRADE GRADE PRODUCTS LTD

## MATERIAL SAFETY DATA SHEET

### 1. Identification of the substance / preparation and company.

Product name	TradePUR RC30M
Supplier	Trade Grade Products Limited
Address	2 Thorne Way Woolsbridge Industrial Park Three Legged Cross Wimborne Dorset BH21 6FB
Emergency telephone number	01202 820177

### 2. Composition / Information on Ingredients.

<u>Material description</u>	<u>CAS No.</u>	<u>EINECS No.</u>	<u>% Content</u>	<u>Health (class)</u>	<u>Risk (R No.)</u>
Mixture of Diphenylmethane-4,4'-Diisocyanate (MDI) with polymeric constituents, MDI content.	101-68-8	202-966-0	8 - 12	Xn	R20 R36/37/38 R42

### 3. Hazards Identification.

Main hazards	Irritating to skin and mucous membranes. May cause sensitisation by inhalation and skin contact.
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### 4. First Aid Measures (Symptoms).

Skin contact	There may be irritation and redness around the area of contact.
Eye contact	There may be irritation and redness.
Ingestion	Nausea and stomach pain may occur. There may be vomiting. Convulsions may occur. There may be a loss of consciousness.
Inhalation	Exposure may cause coughing or wheezing. There may be congestion of the lungs causing severe shortness of breath. Convulsions may occur. There may be a loss of consciousness.

### 4. First Aid Measures (Action).

Skin contact	Remove all contaminated clothing and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.
Eye contact	Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.
Ingestion	<b>DO NOT induce vomiting.</b> If conscious give 1 pint of water to drink immediately. If the casualty is unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital immediately.
Inhalation	Remove casualty from exposure ensuring your own safety whilst doing so. If the casualty is unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. If conscious, ensure the casualty sits or lies down. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital immediately.

**5. Fire-fighting Measures.**

Extinguishing media	Carbon dioxide, alcohol or polymer foam, dry chemical powder.
Exposure hazard	In combustion emits toxic fumes.
Personal protection	Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

**6. Accidental Release Measures.**

Personal precautions	Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers 'leak-side up' to prevent the escape of liquid.
Environmental precautions	Prevent the liquid entering drains, sewers or waterways. If the substance enters drains, sewers, etc inform the police or fire service. Contain the spillage using bunding.
Clean up of spillages	Absorb into dry earth, sand, sawdust, etc. Wash the spillage site with large amounts of clean water.

**7. Handling and Storage.**

Handling	Ensure that there is sufficient ventilation in the work place, especially if the material is being heated or sprayed. Avoid direct contact with the substance.
Storage	Store in a cool, dry, well ventilated place. Keep containers tightly closed. Avoid temperatures below 10°C and above 50°C.
Packaging materials	Must only be stored and used in original packaging.

**8. Exposure Controls / Personal Protection.**

Exposure limits							
Diphenylmethane-4,4'-Diisocyanate	<table> <tr> <td><u>STD</u></td> <td></td> </tr> <tr> <td>TWA (8 Hours)</td> <td>0.02 mg/m<sup>3</sup></td> </tr> <tr> <td>STEL (15 min)</td> <td>0.07 mg/m<sup>3</sup></td> </tr> </table>	<u>STD</u>		TWA (8 Hours)	0.02 mg/m <sup>3</sup>	STEL (15 min)	0.07 mg/m <sup>3</sup>
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STEL (15 min)	0.07 mg/m <sup>3</sup>						
Ventilation	Ensure good ventilation by means of local extraction at point of use.						
Respiratory protection	Wear respiratory protection where there is a risk of exposure to concentrations above OEL (occupational exposure limit). Self-contained breathing apparatus must be available for emergencies.						
Hand protection	Wear plastic or rubber gloves.						
Eye protection	Wear chemical resistant goggles.						
Skin protection	Wear protective clothing with elasticised cuffs and closed neck. Boots made of PVC. Ensure safety shower is available for emergencies.						
Personal hygiene	Apply skin protection crème before handling. Remove contaminated clothing. Wash hands before breaks and at the end of work.						
Protective equipment							



**9. Physical and Chemical Properties.**

Appearance	Green liquid
Odour	Earthy / Musty odour
Flash point	Above 200°C
Percentage non-volatiles	Above 99%
Specific gravity	1.13 @ 20°C (approx)
Solubility	Immiscible with water.
Viscosity	5500 cps @ 20°C

**10. Stability and Reactivity.**

Stability	Stable and un-reactive at normal temperatures and conditions.
Conditions to avoid	Heat. Closed containers may rupture owing to increase in pressure.
Materials to avoid	Exothermic reaction with amines, alcohols, acids and alkalis. Reacts with water forming carbon dioxide (CO <sup>2</sup> ).
Hazardous decomposition products	No hazardous decomposition products when stored and handled correctly.

**11. Toxicological Information.**

LD50 Oral (rat)	> 500 mg/kg
Effect on eyes	Strong irritation, lacrymation, burning.
Effect on skin	Dehydration and possible sensitisation.
Routes of exposure	Refer to section 4 for routes of exposure and corresponding symptoms.

**12. Ecological Information.**

Ecotoxicity	Components may be harmful to aquatic organisms.
Bioaccumulation	Bioaccumulation potential of some components should be considered to be high due to low biodegradation rates.
Adverse effects	Harmful to aquatic organisms. Isocyanates, when in contact with water, evolve CO <sup>2</sup> and form an insoluble solid. Do not allow to enter soil drains, sewers or water courses.

**13. Disposal Consideration.**

Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.

Disposal of the wet adhesive is governed by the Control of Pollution (Special Wastes) Regulations 1980.

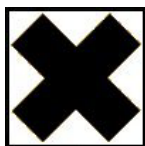
Any wet remaining product on the walls of the drum should be neutralised with aqueous ammonia and left with the bungs removed for 48 hours. This ensures that no free isocyanate is left in the drum. The ammonia solution can then be disposed of in accordance with local regulations.

**14. Transport Information.**

Not classed as hazardous for carriage under current legislation.

**15. Regulatory Information.**

CHIP Label for supply



HARMFUL

Contains: Isocyanates, see information supplied by manufacturer.

CHIP Risk phrases

R20	Harmful by inhalation.
R36/37/38	Irritating to eyes, respiratory system and skin.
R42	May cause sensitisation by inhalation.

CHIP Safety phrases

S23	Do not breathe fumes.
S24	Avoid contact with skin.
S36/37	Wear suitable protective clothing and gloves.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label if possible).
S63	In case of accident by inhalation, remove casualty to fresh air and keep at rest.

Regulatory references

CHIP Regulations 1996  
 Health and Safety at Work Act 1974  
 COSHH Regulations 1994

**16. Other Information.**

Other information

This adhesive should be used in accordance with the supplier's recommendations.

The information provided in this data sheet is based on our current knowledge of the product and is intended to describe it for the purpose of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

Information sources

CHIP Approved supply list.  
 CHIP Approved guide to the classification and labelling of substances and preparations dangerous for supply.  
 CHIP Approved carriage list.  
 Raw materials suppliers literature.  
 Occupational exposure limits 1994 (EH40).