

# TRADE GRADE PRODUCTS LTD

## MATERIAL SAFETY DATA SHEET

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

Product name	TradePUR Rapid – D4
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.**

Preparation description	Description
-------------------------	-------------

Dangerous components / constituents

<u>CAS / Registry no.</u>	<u>Material description</u>	<u>% Content</u>	<u>Health (class)</u>	<u>Risk (R No.)</u>
1330-20-7	XYLENE, Mixture of Isomers.	< 12.5	Xn	R10 R20/21 R38
9016-87-9	POLYMETHYLENE- POLYPHENYLISOCYANATE	> 25	Xn	R20 R36/37/38 R42/43

### **3. Hazards Identification.**

Human health hazards	Harmful by inhalation. Irritating to eyes, respiratory system and skin. May cause sensitisation by inhalation and skin contact.
Environmental hazards	Flammable.

### **4. First Aid Measures.**

Inhalation	Remove the victim into fresh air. Unconscious - maintain adequate airway and respiration. Consult a doctor/medical service if breathing problems develop.
Skin	Wash immediately with lots of water and soap for 15 minutes. Consult a doctor / medical service if irritation persists.
Eye	Rinse immediately with plenty of water for 15 minutes. Do not apply neutralising agents. Consult a doctor/medical service if irritation persists.
Ingestion	Never give water to an unconscious person. Consult a doctor/medical service if feeling unwell.

**5. Fire-fighting Measures.**

Specific hazards	Gas / vapour flammable with air within explosion limits. On heating / burning - release of toxic and corrosive gases/vapours, nitrous vapours, carbon monoxide and carbon dioxide. Cool tanks / drums with water spray, then remove them to safety. Dilute toxic gases with water supply.
Extinguishing media	Polyvalent foam, powder and carbon dioxide.
Protective equipment	Compressed air/oxygen apparatus. Gas-tight suit.

**6. Accidental Release Measures.**

Personal precautions	See section 8.
Environmental precautions	Substance must not be discharged into the sewer.
Clean up method	Absorb liquid spill in non-combustible material, such as, sand, earth or vermiculite. Place absorbed substance into closing containers. Carefully collect the spill / leftovers. Damaged / cooled tanks must be emptied. Do not use compressed air for pumping over spills. Take collected spill to manufacturer / competent authority. Clean contaminated surfaces with a soap solution.

**7. Handling and Storage.**

Handling	Observe very strict hygiene - avoid contact. Use spark / explosion proof appliances and lighting system. Do not discharge the waste into the drain. Remove contaminated clothing immediately. Clean contaminated clothing.
Storage	Keep container tightly closed. Store in a cool area, ventilate at floor level. Keep away from heat and ignition sources.

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

Occupational exposure standards	<p>Sampling Methods:</p> <p>Isocyanates (NIOSH 5521), (NIOSH 5522) Xylene (Hydrocarbons, aromatic) (NIOSH 1501) Xylene (o-, m-, &amp; p-isomers) (OSHA 7)</p> <p>Exposure Limits:</p> <p>XYLENE, MIXTURE OF ISOMERS:</p> <table> <tr> <td>TLV-TWA</td> <td></td> <td>mg/m<sup>3</sup></td> <td>100</td> <td>ppm</td> </tr> <tr> <td>TLV-STEL</td> <td></td> <td>mg/m<sup>3</sup></td> <td>150</td> <td>ppm</td> </tr> <tr> <td>TLV-Ceiling</td> <td></td> <td>mg/m<sup>3</sup></td> <td></td> <td>ppm</td> </tr> <tr> <td>OES-LTEL</td> <td>441</td> <td>mg/m<sup>3</sup></td> <td>100</td> <td>ppm</td> </tr> <tr> <td>OES-STEL</td> <td>662</td> <td>mg/m<sup>3</sup></td> <td>150</td> <td>ppm</td> </tr> <tr> <td>MEL-LTEL</td> <td></td> <td>mg/m<sup>3</sup></td> <td></td> <td>ppm</td> </tr> <tr> <td>MEL-STEL</td> <td></td> <td>mg/m<sup>3</sup></td> <td></td> <td>ppm</td> </tr> </table>	TLV-TWA		mg/m <sup>3</sup>	100	ppm	TLV-STEL		mg/m <sup>3</sup>	150	ppm	TLV-Ceiling		mg/m <sup>3</sup>		ppm	OES-LTEL	441	mg/m <sup>3</sup>	100	ppm	OES-STEL	662	mg/m <sup>3</sup>	150	ppm	MEL-LTEL		mg/m <sup>3</sup>		ppm	MEL-STEL		mg/m <sup>3</sup>		ppm
TLV-TWA		mg/m <sup>3</sup>	100	ppm																																
TLV-STEL		mg/m <sup>3</sup>	150	ppm																																
TLV-Ceiling		mg/m <sup>3</sup>		ppm																																
OES-LTEL	441	mg/m <sup>3</sup>	100	ppm																																
OES-STEL	662	mg/m <sup>3</sup>	150	ppm																																
MEL-LTEL		mg/m <sup>3</sup>		ppm																																
MEL-STEL		mg/m <sup>3</sup>		ppm																																
Respiratory protection	High vapour concentration - gas mask.																																			
Hand protection	Gloves.																																			
Eye protection	Face shield.																																			
Body protection	Protective clothing.																																			

**9. Physical and Chemical Properties.**

Physical state	Liquid
Colour	Brown
Odour	Solvent
pH	N.D.
Flash point	35°C
Explosive limit	- Upper 7.0 - Lower 1.0
Specific gravity @ 20°C	1.1
Vapour pressure @ 20°C	8 hpa
Solubility in	Organic solvents
Viscosity	6 PA.s

**10. Stability and Reactivity.**

Stability	Stable when stored and handled in accordance with the manufacturers recommendations.
Conditions to avoid	Heat and ignition sources.
Hazardous decomposition products	On heating and burning expect the release of toxic and corrosive gases / vapours, nitrous vapours, carbon monoxide, carbon dioxide.

**11. Toxicological Information.**

Acute toxicity	XYLENE, MIXTURE OF ISOMERS	
	LD50 oral rat	> 4300 mg/kg
	LD50 dermal rat	> 2000 mg/kg
	LD50 dermal rabbit	> 1700 mg/kg
	LC50 inhalation rat	22 mg/¼ h
	POLYMETHYLENEPOLYPHENYLISOCYANATE	
	LD50 oral rat	> 10000 mg/kg
	LD50 dermal rat	N.D. mg/kg
	LD50 dermal rabbit	> 5000 mg/kg
	LC50 inhalation rat	N.D. mg/¼ h
Chronic toxicity	EC carcinogen cat.	Not listed
	EC mutagen cat.	Not listed
	EC reproductive cat.	Not listed
	MAK-reproductive.	D (xylene)
	MAK-carcinogen.	3 (polymethylenepolyphenylisocyanate)
	TVL-carcinogen.	A4 (xylene)
	IARC classification	3 (xylene) (polymethylenepolyphenylisocyanate)
	Obligatory medical control (ARAB-RGPT Art. 124) (Belgium)	
	group V	number 5.2 (polymethylenepolyphenylisocyanate)
	group I	number 26.1 (xylene)
High concentrations	Risk of pneumonia. Respiratory difficulties. Symptoms may appear later - risk of lung oedema.	
Inhalation	Harmful by inhalation. Dry/sore throat. Coughing. Runny nose. Irritation of the respiratory tract. Irritation of the nasal mucous membrane. Possible inflammation of the respiratory tract.	

Skin irritation	Tingling / irritation of the skin.
Ingestion	Irritation of the gastric / intestinal mucous.
Eye contact	Irritation of the eye tissue.
Chronic effects	May cause sensitisation by skin contact. May cause sensitisation by inhalation. Contains substance with uncertain carcinogenic properties (xylene, polymethylenepolyphenylisocyanate).
Repeated / prolonged exposure	Itching. Skin rash / inflammation. May stain skin. Feeling of weakness. Coughing. Possible inflammation of the respiratory tract. Respiratory difficulties.

## **12. Ecological Information.**

Mobility	Volatile organic compounds (VOC) > 47.1%		
Persistence / Degradability	SOIL	T ½	N.D. days
		BOD <sub>5</sub>	N.D. 0 <sub>2</sub> /g substance
		COD	N.D. 0 <sub>2</sub> /g substance
Bioaccumulation	N.D.		
Eco-toxicity	XYLENE, MIXTURE OF ISOMERS		
	LC50 (96 h)	3.77 mg/1 (SALMO GAIRDNERI/ONCORHYNCHUS MYKISS)	
	LC50 (48 h)	3.82 mg/1 (DAPHNIA MAGNA)	
	EC50 (366 h)	72 mg/1 (SELENESTRUM CAPRICORNUTUM)	

## **13. Disposal Consideration.**

Product disposal	Waste Code (Germany) 55905 Waste Code (EC) 08 04 02 Hazardous Waste (91/689/EEC) Contains black list candidate(s) (List I of 76/464/EEC) (xylene)
Local legislation	Landfill or incinerate at an approved site in accordance with national and local regulations. Incinerate under surveillance. Do not discharge into drains, sewers or waterways.

## **14. Transport Information.**

### **ADR / RID**

UN Number	1133	ADR Class	3, 3.1
Packing group	III	Labelling	3

### **IMDG / IMO**

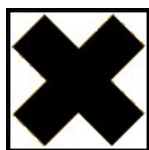
UN Number	1133	Class	3.3 p3302
Packing group	III	EmS	3.05
Marine pollutant	.	MFAG	330

### **IATA / ICAO**

UN Number	1133	Class	3
Packing group	III	Instructions (passenger)	309/Y309
Quantity	---	Instructions (cargo)	310

**15. Regulatory Information.**

CHIP Label for supply



HARMFUL

EC directives 67/548/EEC &amp; 1999/45/EEC

Contains

Xylene, Polymethylenepolyphenylisocyanate

CHIP Risk phrases

R10	Flammable.
R20	Harmful by inhalation.
R36/37/38	Irritating to eyes, respiratory system and skin.
R42/43	May cause sensitisation by inhalation and skin contact.

Safety Phrases

S02	Keep out of reach of children.
S23	Do not breathe vapour.
S36/37	Wear suitable protective clothing and gloves.
S45	In case of accident or if you feel unwell, seek medical advice (show the label where possible).

Contains isocyanates. See information supplied by the manufacturer.

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).