

# MATERIAL SAFETY DATA SHEET

## ACCORDING TO 93/112/EC

### ROTAFLEX HM PU SEALANT

<b>1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY</b>					
PRODUCT NAME AND CODE: Rotaflex HM PU Sealant - <b>3474</b> EMERGENCY NUMBER (OFFICE HOURS) 01639 730481					
COMPANY-UNDERTAKING IDENTIFICATION - ROTAFIX HOUSE, ABERCRAF, SWANSEA, SA9 1UR. TEL: 01639 730481    FAX: 01639 730858					
<b>2. COMPOSITION/INFORMATION ON INGREDIENTS</b>					
Dangerous ingredients	CAS Number	% - weight	symbols	R.phrases	
Calcium oxide	1305-78-8	1-2.5 %	xi	37/38-41	
Solvent naptha light aromatic	64742-95-6	2.5-10 %	xn;n	10-37-51/53-65-66-67	
Diphenylmethane 4.4' diisocyanate	101-68-8	<1%	xn	20-36-37-38-42/43	
<b>3. HAZARDS IDENTIFICATION</b>					
Hazards for health:		Xn; may cause sensitisation by inhalation.			
Hazard for environment:		Harmful to aquatic organisms, may cause long-term adverse affects in the aquatic environment.			
<b>4. FIRST-AID MEASURES</b>					
General: In case of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.					
Eye Contact: Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart and seek medical advice.					
Ingestion: If accidentally swallowed obtain immediate medical attention. Keep at rest. DO NOT induce vomiting.					
Inhalation: Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Give nothing by mouth. If unconscious place in recovery position and seek medical advice.					
Skin contact: Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognised skin cleaner. DO NOT use solvents or thinners.					
<b>5. FIRE-FIGHTING MEASURES</b>					
Recommended extinguishing media:		Water spray, CO2, powders, foam			
Not to be used:		Water jet			
Particularities:		Use an appropriate breathing apparatus. Cool closed containers exposed to fire with water.			
<b>6. ACCIDENTAL RELEASE MEASURES</b>					
Recommended extinguishing media:		Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers or sewage inform appropriate authorities in accordance with local regulations.			
Clean up procedure:		Collect mechanically the preparation and place in container. One possible decontaminant comprises : water / ethanol or IPA/Ammonia solution (45/50/5 by volume).			
Personal precautions:		Wear appropriate equipment as described in 8.8.			
<b>7. HANDLING AND STORAGE</b>					
Handling:		Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this preparation is used. Avoid skin and eye contact and inhalation of vapours. Comply with the health and safety at work laws.			
Storage:		Store in a dry, well ventilated area. Between +5 and +25°C and place away from sources of heat and direct sunlight. Keep away from any oxidising agent, from strongly acid materials as well as amines, alcohol and water. No smoking. Prevent unauthorised access.			
<b>8. EXPOSURE CONTROLS/PERSONAL PROTECTION</b>					
Exposure limits	Names	VME (8H/J)		VLE (15mm)	
		ppm	mg/m3	ppm	mg/m3
	Solvent naptha light aromatic	19	100		
	Diphenylmethane 4.4 diisocyanate	0.01	0.1	0.02	0.2
<b>9. PHYSICAL AND CHEMICAL PROPERTIES</b>					
Physical state:	paste	flash point:	>61 c		
Colour:	white, grey, black	Solubility in water:	No reaction		
Odour:		Solubility in organic solvents:	Partly		
Density:	1.15 a 1.19 g/ml	VOC contents:	7 to 8 % weight		
<b>10. STABILITY AND REACTIVITY</b>					
The preparation is stable under recommended storage and handling conditions					
Hazards decomposition products:		During polymerisation: CO2 which in closed containers can result in pressurisation. In case of fire isocyanates, carbon monoxide and dioxide, smoke, nitrogen oxides, hydrogen chloride, hydrogen cyanide, sulphur dioxide.			
<b>11. TOXICOLOGICAL INFORMATION</b>					
Information Product.					
Based on the properties of the isocyanate components, this preparation may cause acute irritation and sensitisation of the respiratory system leading to an asthmatic condition., wheeziness and tightness of the chest. Sensitised persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Repeated exposure may lead to permanent respiratory disability. Repeated or prolonged contact with the preparation may cause non allergic contact dermatitis and absorption through the skin. Contamination of the eye with the paste may cause irritation and irreversible damage.					
Diphenylmethane 4.4' diisocyanate					
Acute oral LD50 rat (mg/kg)					
Acute dermal LD50 rabbit (mg/kg)					
Acute inhalation LC50 rat (mg/l/4h)					
<b>12. ECOLOGICAL INFORMATION:</b>					
The preparation has been assessed following the conventional method of the dangerous preparations directive (1999/45/ec) and classified for ecotoxicological hazards accordingly. See chapters 2 and 15 for details. The product should not be allowed to enter drains or water courses.					
<b>13. DISPOSAL CONSIDERATIONS</b>					
In accordance with federal, national and local legislation.					
Disposal code:		080409			
<b>14. TRANSPORT INFORMATION</b>					
Transport only in accordance with ADR for road, RID for rail, IMDG for sea and LACO/LATA for air transport. Exempted of transport classification.					

#### 15. REGULATORY INFORMATION

In accordance with 67/548/cf et 99/45/ce

Danger classification:    xn harmful

Contains:                Diphenylmethane 4.4' diisocyanate

Phrase R    R42/43 : may cause sensitisation by inhalation

              R52/53: harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Phrase R S2: Keep out of reach of children

              S23: Do not breathe vapours.

              S45: in case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

              S46: If swallowed, seek medical advice immediately and show this container or label

              S63: In case of accident by inhalation remove casualty to fresh air and keep at rest.

Contains isocyanates – See information supplied by the manufacture. This information is supplied in the present safety data sheet.

#### 16. OTHER INFORMATION

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