

PRODUCT SAFETY DATA SHEET

ACCORDING TO 93/112/EC

RM20

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY		HARDENER component 2 of 3	
PRODUCT NAME AND CODE: RM20 - 3370-75		EMERGENCY NUMBER (OFFICE HOURS) 01639 730481	
COMPANY-UNDERTAKING IDENTIFICATION - ROTAFIX HOUSE, ABERCRAF, SWANSEA, SA9 1UR. TEL: 01639 730481 FAX: 01639 730858			
2. COMPOSITION/INFORMATION ON INGREDIENTS			
Chemical characterisation			
Description: Hardener for epoxy resins			
Dangerous components:			
CAS NO.	Designation	%	Index
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	50-100	C
100-51-6	benzyl alcohol	25-<50	Xn
69-72-7	salicylic acid	3-<10	Xn
			R-phrases
			21/22-34-43
			20/22
			22
3. HAZARDS IDENTIFICATION			
Hazard designation: Corrosive			
Information pertaining to particular dangers for man and environment			
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed			
R34 Causes burns			
R43 May cause sensitization by skin contact			
4. FIRST-AID MEASURES			
INHALATION: Remove victim to ventilated area - seek medical attention.			
SKIN: Wash with warm soapy water immediately, remove contaminated clothing.			
EYES: Rinse opened eye with plenty of water for several minutes, seek medical advice.			
INGESTION: Do not induce vomiting. Seek medical advice.			
5. FIRE-FIGHTING MEASURES			
EXTINGUISHANTS LARGE FIRE/SMALL FIRE: Dry powder CO ₂ , water jet, alcohol-resistant foam. Wear breathing apparatus.			
6. ACCIDENTAL RELEASE MEASURES			
Methods for cleaning up: Absorb liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust) and place into containers for disposal.			
Disposal of containers according to local regulations. Wash spill site thoroughly after material pick-up is complete.			
7. HANDLING AND STORAGE			
HANDLING: Ensure good ventilation. Wear protective equipment.			
STORAGE PRECAUTIONS: Keep in sealed containers of origin. Carbonates on exposure to air.			
8. EXPOSURE CONTROLS/PERSONAL PROTECTION			
RECOMMENDED PROTECTIVE CLOTHING: Safety goggles, overalls and rubber gloves.			
GENERAL PROTECTION AND HYGIENIC MEASURES: Keep away from foodstuffs, beverages and food. Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of work. Avoid contact with eyes and skin.			
9. PHYSICAL & CHEMICAL PROPERTIES:			
PHYSICAL STATE: Liquid		APPEARANCE: clear/light pink	
DENSITY @ 20°C: 1.01 g/cm ³		ODOUR: Ammoniacal	
VAPOUR DENSITY (AIR = 1):		pH: 11	
VAPOUR PRESSURE @ 25°C: 1 MBar		VISCOSITY @ 25°C: 50 mPa.s	
SOLUBLE IN WATER: Partial			
10. STABILITY AND REACTIVITY			
THERMAL DECOMPOSITION/CONDITIONS TO BE AVOIDED: No decomposition if used according to specification.			
DANGEROUS REACTIONS: No dangerous reaction known			
DANGEROUS PRODUCTS OF DECOMPOSITION: no dangerous decomposition products known.			
11. TOXICOLOGICAL INFORMATION			
ACUTE TOXICITY: LD/LC50 values that are relevant for classification:			
Components	Type	Value	Species
benzyl alcohol	oral	1300 mg/kg	rat
	dermal	2000 mg/kg	rbt
Harmful/corrosive: Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of oesophagus and stomach.			
PRIMARY IRRITANT EFFECT:			
ON THE SKIN: Caustic effect on skin and mucous membranes			
ON THE EYE: Strong caustic effect			
SENSITIZATION: sensitization possible by skin contact and inhalation			
12. ECOLOGICAL INFORMATION:			
Hazardous for water. Should not be allowed to enter sewers and water courses.			
13. DISPOSAL CONSIDERATIONS			
Do not allow into drains or water courses. Wastes including emptied containers, are controlled wastes and should be disposed of in accordance with Local and National regulations made under the Control of Pollution Act and the Environmental Protection Act. Using information provided in this data sheet, advice should be obtained from the Waste Regulation Authority whether the special waste regulations apply.			
14. TRANSPORT INFORMATION			
Land transport ADR/RID and GGVS-GGVE (cross-border - domestic)		UN-number: 2289	
ADR/RID - GGVS/E Class: 8 Corrosive materials		label: 8	
Number-letter: 53c			
Kemler number: 80			
designation of goods: ISOPHORONEDIAMINE 50%			
15. REGULATORY INFORMATION			
Designation according to EC guidelines: This product has been classified and labelled in accordance with EC directives. See paragraphs 2, 3, and 8			
16. OTHER			
Customers are urged to ensure that the product is entirely suitable for their own purpose. It is the customer's responsibility to ensure that a suitable and sufficient assessment of the risks created by a work activity using this product is undertaken before this product is used.			
This information contained herein is based on our present knowledge however, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.			

PRODUCT SAFETY DATA SHEET

ACCORDING TO 93/112/EC

RM20

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY		FILLER component 3 of 3
PRODUCT NAME AND CODE: RM20 - 3370-75		EMERGENCY NUMBER (OFFICE HOURS) 01639 730481
COMPANY-UNDERTAKING IDENTIFICATION - ROTAFIX HOUSE, ABERCRAF, SWANSEA, SA9 1UR. TEL: 01639 730481 FAX: 01639 730858		
2. COMPOSITION/INFORMATION ON INGREDIENTS		
NATURE & COMPOSITION: Silica sands, grades of cement and cement modifiers, plasticisers and other cementitious compounds. The lime, calcium silicates and alkalis within the cement are partially soluble and when mixed with water will give rise to a potentially hazardous alkaline solution.		
3. HAZARDS IDENTIFICATION All silica sands are washed in processing and contain little or no respirable silica, however, respirable silica may be produced when used. This constitutes a health hazard and great care should be exercised, particular attention being paid to the avoidance of inhaling dust produced. Wear dust masks or their equivalent to BS2901 type B. HEALTH EFFECTS: EYES: Irritant to eyes. Dust will cause transient irritation by abrasion. SKIN: Dust may cause irritation by abrasion. INGESTION: gastrointestinal irritation. INHALATION: Exposure to dust may have the following effects:- Severe irritation of nose, throat and respiratory tract. Due to respirable Silica. RISK PHRASES: Reacts with acids under heat SAFETY PHRASES: In fire toxic nitrous oxides formed		
4. FIRST-AID MEASURES		
EYES: Rinse with plenty of water for at least 15 minutes, seek medical advice. SKIN: Wash with plenty of soap and water or shower. In serious cases seek medical advice. INGESTION: Wash out mouth with water. Do not induce vomiting. Seek medical advice. INHALATION: Fresh air, rest, half upright position, loosen clothing, seek medical advice. Show practitioner this leaflet.		
5. FIRE-FIGHTING MEASURES		
Not combustible.		
6. ACCIDENTAL RELEASE MEASURES		
Transfer into suitable containers for recovery or disposal. Avoid creating a dust.		
7. HANDLING AND STORAGE		
HANDLING: Use in well ventilated area. Avoid inhaling dust. STORAGE: Storage area should be dry and well ventilated.		
8. EXPOSURE CONTROLS/PERSONAL PROTECTION		
Occupational Exposure Standards: Silica Sand : UK EH40: OES 0.4mg/m ³ 8h TWA, as SiO ₂ Dust, respirable: RECOMMENDED PROTECTIVE CLOTHING: Extra ventilation, safety goggles, overalls and gloves. INHALATION: If conditions are dusty, use dust respirator or mask to BS6016 type 3 and or BS2091. SKIN: Wear suitable protective gloves and face visor. EYES: Wear chemical goggles or face shield. INGESTION: Do not smoke, eat or drink when using this material.		
9. PHYSICAL & CHEMICAL PROPERTIES:		
PHYSICAL STATE: Free flowing blended powder	APPEARANCE: Grey	
DENSITY @ 25°C: 1.35-1.49 gms/cc	ODOUR: Nil	
VAPOUR DENSITY (AIR = 1): N/A	pH: Part alkaline	
VAPOUR PRESSURE @ 25°C: N/A	VISCOSITY @ 25°C: N/A	
SOLUBLE IN WATER: No		
10. STABILITY AND REACTIVITY		
Stability: Stable under normal conditions Conditions to Avoid: Exposure to water or moisture.		
11. TOXICOLOGICAL INFORMATION		
This product contains respirable Silica in the form of Quartz. Prolonged exposure can give rise to fibrosis of the lungs, commonly referred to as silicosis. The respirable percentage of SiO ₂ available to inhale will be dependant upon prevailing conditions.		
12. ECOLOGICAL INFORMATION:		
Mobility: The product is involatile and insoluble and will accumulate in the ground. Persistence/Degradability: The product is resistant to biodegradation.		
13. DISPOSAL CONSIDERATIONS		
Do not allow into drains or water courses. Wastes including emptied containers, are controlled wastes and should be disposed of in accordance with Local and National regulations made under the Control of Pollution Act and the Environmental Protection Act. Using information provided in this data sheet, advice should be obtained from the Waste Regulation Authority whether the special waste regulations apply.		
14. TRANSPORT INFORMATION		
ARD/RID - Description Not classified for Conveyance Purposes		
15. REGULATORY INFORMATION		
SAFETY PHRASES: Do not breathe dust. Take precautionary measures against static discharges.		
16. OTHER		
Customers are urged to ensure that the product is entirely suitable for their own purpose. It is the customer's responsibility to ensure that a suitable and sufficient assessment of the risks created by a work activity using this product is undertaken before this product is used. This information contained herein is based on our present knowledge however, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.		