

MATERIAL SAFETY DATA SHEET

ACCORDING TO 93/112/EC

AQUACHEM

page 1 of 2

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY PRODUCT NAME AND CODE: AQUACHEM - 3001-40 - EMERGENCY NUMBER (OFFICE HOURS) 01639 730481 COMPANY-UNDERTAKING IDENTIFICATION - ROTAFIX HOUSE, ABERCRAF, SWANSEA, SA9 1UR. TEL: 01639 730481 FAX: 01639 730858	BASE component 1 of 2																				
2. COMPOSITION/INFORMATION ON INGREDIENTS NATURE & COMPOSITION: Liquid DGEB A/F epoxy resin containing mono functional higher isomer diluent . Mixture consisting of the following components <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th style="text-align: left;">CAS No</th> <th style="text-align: left;">Designation</th> <th style="text-align: left;">%</th> <th style="text-align: left;">Index</th> <th style="text-align: left;">R- Phases</th> </tr> </thead> <tbody> <tr> <td>55492-52-9</td> <td>BPF-epoxy resin; MW < 700</td> <td>50-100</td> <td>Xi</td> <td>36/38-43</td> </tr> <tr> <td>25068-38-6</td> <td>BPA-epoxy resin; MW < 700</td> <td>10-24,9</td> <td>Xi</td> <td>36/38-43</td> </tr> <tr> <td>68081-84-5</td> <td>C13/C15 - Alkylglycidylether</td> <td>10-24,9</td> <td>Xi</td> <td>36/38-43</td> </tr> </tbody> </table>		CAS No	Designation	%	Index	R- Phases	55492-52-9	BPF-epoxy resin; MW < 700	50-100	Xi	36/38-43	25068-38-6	BPA-epoxy resin; MW < 700	10-24,9	Xi	36/38-43	68081-84-5	C13/C15 - Alkylglycidylether	10-24,9	Xi	36/38-43
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3. HAZARDS IDENTIFICATION Hazard designation: Xi irritant N dangerous for the environment																					
4. FIRST-AID MEASURES INHALATION: Remove victim to ventilated area - seek medical attention SKIN: Wash with warm soapy water immediately, remove contaminated clothing, do not use solvents to remove from skin. EYES: Rinse with copious amounts of water, seek medical attention. INGESTION: Seek medical attention.																					
5. FIRE-FIGHTING MEASURES AUTOIGNITION TEMPERATURE: >100°C SPECIAL HAZARDS: Formation of toxic gases is possible. EXTINGUISHANTS LARGE FIRE/SMALL FIRE: Dry powder CO ₂ , water jet, foam.																					
6. ACCIDENTAL RELEASE MEASURES Methods for cleaning up: Absorb in earth or sand and place into containers for disposal. Disposal of containers according to local regulations. Wash spill site thoroughly after material pick-up is complete. Prevent liquid from entering sewers.																					
7. HANDLING AND STORAGE STORAGE PRECAUTIONS: Store in original containers between + 5°C and + 35°C. Keep container tightly sealed. HANDLING: Ensure good ventilation at work place.																					
8. EXPOSURE CONTROLS/PERSONAL PROTECTION RECOMMENDED PROTECTIVE CLOTHING: Goggles/glasses, rubber gloves, overalls, barrier cream. 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 AND CHEMICAL PROPERTIES PHYSICAL STATE: Liquid DENSITY @ 20°C: 1.1 g/cm ³ VAPOUR DENSITY (AIR = 1): N/A VAPOUR PRESSURE @ 25°C: <0.1 MBar SOLUBLE IN WATER: Insoluble APPEARANCE: Mobile ODOUR: Slight sweet smell. pH: N/A VISCOSITY @ 25°C: 1300 mPa.s																					
10. STABILITY AND REACTIVITY THERMAL DECOMPOSITION/CONDITIONS TO BE AVOIDED: to avoid thermal decomposition do not overheat. DANGEROUS REACTIONS: reacts with amines, reacts with catalysts DANGEROUS PRODUCTS OF DECOMPOSITION: no dangerous decomposition products known.																					
11. TOXICOLOGICAL INFORMATION ACUTE TOXICITY: PRIMARY IRRITANT EFFECT: ON THE SKIN: irritant for skin and mucous membranes ON THE EYE: irritant effect SENSITIZATION: sensitization possible by skin contact																					
12. ECOLOGICAL INFORMATION: GENERAL NOTES: Should not be allowed to enter sewers and water courses. Water hazard class 2.																					
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:3082 ADR/RID - GGVS-E Class: 9 various dangerous materials and objects label: 9 Number-letter: 11c Kemler number: 90 designation of goods: environment hazardous substance, liquid, N.O.S.(epoxy resin)																					
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 INFORMATION Customers are urged to ensure that the product is entirely suitable for there own purpose. It is the customers 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.																					

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PRODUCT NAME AND CODE: AQUACHEM - 3001-40 - 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				
Description: Polyamine Epoxy Adduct Solution				
CAS NO.	Description	%	Index	R-phrases
11	Polyamine - epoxy resin adduct	70	Xn	22, 41
3. HAZARDS IDENTIFICATION				
Harmful if swallowed (R22). Risk of serious damage to eyes(R41).				
Signs and symptoms of exposure (Acute effects) - Material is readily absorbed through the eye. Contact of undiluted product with the eyes causes severe irritation and pain and may cause burns, necrosis and permanent injury. Burns of the eye may cause blindness.				
Signs and symptoms of exposure (possible longer term effects) - Repeated and/or prolonged exposures may result in: adverse eye effects (such as conjunctivitis or corneal damage).				
4. FIRST-AID MEASURES				
INHALATION: Remove victim to ventilated area - seek medical attention.				
SKIN: Rinse with copious amounts of water for at least 15 minutes, seek medical attention .				
EYES: Rinse opened eye with plenty of water for at least 15 minutes, seek medical advice immediately.				
INGESTION: Seek medical advice immediately.				
5. FIRE-FIGHTING MEASURES				
EXTINGUISHANTS LARGE FIRE/SMALL FIRE: Water spray, Carbon Dioxide (CO ₂), Dry Chemical, Alcohol Foam.				
SPECIAL EXPOSURE HAZARDS: May generate toxic nitrogen oxide gases. May generate toxic or irritating combustion products.				
6. ACCIDENTAL RELEASE MEASURES:				
Precautions: Wear goggles and face shield, shut off or remove all ignition sources. Construct a dike to prevent spreading. Collect run-off water and transfer to drums or tanks for later disposal. Do not flush to drains.				
Methods for cleaning up: Wear goggles and face shield. Transfer to containers by suction, preparatory for later disposal. Absorb residual material on vermiculite and scoop up for disposal. Remove from the spill location. Flush area with water spray.				
7. HANDLING AND STORAGE				
HANDLING: Wear goggles and face shield. DO NOT get into eyes.				
STORAGE PRECAUTIONS: Keep in cool, dry, ventilated storage and in closed containers. Avoid freezing temperatures during storage.				
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: Golden yellow		
DENSITY @ 20°C: 1.1 g/cc		ODOUR: Ammoniacal		
VAPOUR DENSITY (AIR = 1): 15-20 mm Hg		pH: 11		
VAPOUR PRESSURE @ 25°C: 2000 - 2700 mPa.s		VISCOSITY @ 25°C: 15-20 mPa.s		
SOLUBLE IN WATER: 100%				
10. STABILITY AND REACTIVITY				
Materials to avoid:Oxidizing agents (i.e. perchlorates, nitrates etc.) Cleaning solution, such as chromarge (sulphuric acid/dichromate) and aqua regis. A reaction accompanied by large heat release occurs when the product is mixed with acids. Heat generated may be sufficient to cause vigorous boiling creating a hazard due to splashing or splattering of hot material. CAUTION! N-Nitrosamines, many of which are known to be potent carcinogens, may be formed when the product comes in contact with nitrous acid, nitrites or atmospheres with high nitrous oxide concentrations.				
Hazardous decomposition products: Carbon monoxide in a fire: Carbon Dioxide in a fire: Ammonia when heated; Nitrogen Oxides in a fire. Irritating and toxic fumes at elevated temperatures.				
11. TOXICOLOGICAL INFORMATION				
ACUTE TOXICITY EFFECTS DATA				
ON THE SKIN: Harmful in contact with skin, can cause a rash, may act as a sensitiser.				
ON THE EYE: Severe irritant to eyes. Corrosive.				
12. ECOLOGICAL INFORMATION:				
Hazardous for water. Should not be allowed to enter sewers and water courses. Waste from this product may present long term environmental hazards, thus disposal must be considered less acceptable than incineration.				
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				
ADR/RID SHIPPING DATA				
not regulated				
15. REGULATORY INFORMATION				
EEC SYMBOL - Harmful (Xn)				
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 there own purpose. It is the customers 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.				