

**PRODUCT SAFETY DATA SHEET  
ACCORDING TO 93/112/EC  
CHEMFLO CR**

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY		BASE component 1 of 2
PRODUCT NAME AND CODE: CHEMFLO CR - 3058      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: Liquid DGEB A/F epoxy resin containing mono functional higher isomer diluent .		
Mixture consisting of the following components		
CAS No	Designation	Index
55492-52-9	BPF-epoxy resin; MW < 700	Xi
25068-38-6	BPA-epoxy resin; MW < 700	Xi
68081-84-5	C13/C15 - Alkylglycidylether	Xi
%		R- Phases
50-100		36/38-43
10-24,9		36/38-43
10-24,9		36/38-43
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 <sub>2</sub> , 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	APPEARANCE: Off white liquid	
DENSITY @ 25°C:	ODOUR: Slight sweet smell	
VAPOUR DENSITY (AIR = 1): 1.4 g/cc	pH:	
VAPOUR PRESSURE @ 25°C: < 0.1 MBar	VISCOSITY @ 25°C: 30-40 mPa.s	
SOLUBLE IN WATER: Insoluble		
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.		

# PRODUCT SAFETY DATA SHEET

## ACCORDING TO 93/112/EC

### CHEMFLOR CR

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY		HARDENER component 2 of 2		
PRODUCT NAME AND CODE: CHEMFLOR CR - 3058		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: Mixture of the substances listed below with harmless additions				
Dangerous components:				
CAS NO.	Designation	%	Index	R-phrases
98-54-4	4-tert-butylphenol	25-<50	Xn	36/37/38-42/43
1477-55-0	m-phenylenebis (methylamine)	25-<50	C	22-34
25513-64-8	trimethyl hexamethylene diamine	3-<10	C	22-34-43
3. HAZARDS IDENTIFICATION				
Hazard designation: C				
Information pertaining to particular dangers for man and environment				
R42/43 May cause sensitization by inhalation and skin contact				
R22 Harmful if swallowed				
R34 Causes burns				
R37 Irritating to respiratory system				
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 organic solvents to remove from skin.				
EYES: Rinse opened eye with plenty of water for several minutes, seek medical advice.				
INGESTION: Drink large amounts of water. Do not induce vomiting. Seek medical advice.				
5. FIRE-FIGHTING MEASURES				
EXTINGUISHANTS LARGE FIRE/SMALL FIRE: Dry powder CO <sub>2</sub> , water jet, alcohol-resistant 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.				
7. HANDLING AND STORAGE				
HANDLING: Ensure good ventilation. Wear protective equipment.				
STORAGE PRECAUTIONS: Keep in sealed containers of origin between +5°C and +25°C				
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 liquid		
DENSITY @ 25°C: 1.086		ODOUR: Ammoniacal		
VAPOUR DENSITY (AIR = 1):		pH: 11		
VAPOUR PRESSURE @ 25°C:		VISCOSITY @ 25°C: 1000 mPa.s		
SOLUBLE IN WATER: Insoluble				
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:				
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: 1760		
ADR/RID - GGVS-E Class: 8 Corrosive materials		label: 8		
Number-letter: 66c				
Kemler number: 80				
designation of goods: CORROSIVE LIQUID, N.O.S., (TRIMETHYLHEXAMETHYLENEDIAMINE, BUTYLPHENOL)				
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.				