

SAFETY DATA SHEET ROTAFIX AQUACHEM 3008/3040 BASE PART A

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier **ROTAFIX AQUACHEM (BASE) PART A**
 Product Name **ROTAFIX AQUACHEM (BASE) PART A**

Relevant identified uses of the substance or mixture and uses advised against

Identified uses Refer to technical data sheet
 Uses advised against Specific uses are identified above and in the technical data sheet. No other uses have been identified and are advised against.

Details of the supplier of the safety data sheet

Manufacturer / Supplier

Rotafix (Northern) Ltd
 Rotafix House
 Hennoyadd Road
 Abercraf, Swansea
 SA9 1UR
 sales@rotafix.co.uk

EMAIL

EMERGENCY TELEPHONE OFFICE HOURS - +44(0)1639 730481

2. HAZARDS IDENTIFICATION

CLASSIFICATION *of the substance or mixture*

CLASSIFICATION according to regulation (EC 1272/2008)



GHS09 environment



GHS08



GHS07

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects

Skin Irrit. 2	H315 Causes skin irritation
Eye Irrit. 2	H319 Causes serious eye irritation
Skin Sens. 1	H317 May cause an allergic skin reaction

Label In Accordance With (EC) No 1272/2008

SIGNAL WORD Warning

CONTAINS Epoxy resin Epoxy resin (average molecular weight <700)

REACTION PRODUCT BISPHENOL - A

SAFETY DATA SHEET ROTAFIX AQUACHEM 3008/3040 BASE PART A

HAZARD STATEMENTS	H315 H317 H319 H411	Causes skin irritation May cause an allergic skin reaction Causes serious eye irritation Toxic to aquatic life with long lasting effects
PRECAUTIONARY STATEMENTS	P273 P280 P305+351+338 IF IN EYES: P313 P501a	Avoid release to the environment Wear protective gloves/protective clothing/eye protection/face protection Rinse cautiously with water for several minutes. Remove Contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention Dispose of contents / container in accordance with local/regional/national / international regulations
SUPPLEMENTARY PRECAUTIONARY STATEMENTS	P272 P261 P264 P321 P302+352 P332+313 P333+313 P337 P362 P363 P391	Contaminated work clothing should not be allowed out of the workplace Avoid breathing vapour/spray Wash contaminated skin thoroughly after handling Specific treatment (see medical advice on this label) IF ON SKIN: Wash with plenty of soap and water If skin irritation occurs: Get medical advice/attention If skin irritation or rash occurs: Get medical advice/attention If eye irritation persists: Get medical advice/attention Take off contaminated clothing and wash before reuse Wash contaminated clothing before reuse Collect spillage.
OTHER HAZARDS)		This product does not contain any PBT or vPvB

3 COMPOSITION/INFORMATION ON INGREDIENTS

BISPHENAL F EPOXY RESIN	10 – 30%
CAS-No.: 9003-36-5	
LOW BOILING POINT NAPHTHA – UNSPECIFED – STODDARD SOLVENT	1 – 10%
CAS-No.: 8052-41-3	
OXIRANE, MONO (C12-14 ALKYL OXY)METHYL]DERIVATIVES	10 – 30%
CAS-No.: 68609-97-2	
BISPHENAL A EPOXY RESIN NUMBER AVERAGE MW <700	50 – 70%
CAS-No.: 25068-38-6	
Classification (EC 1272/2008)	Classification (67/548/EEC)
Skin Irrit. 2 - H315	R43
Eye Irrit. 2 - H319	Xi;R36/38
Skin Sens. 1 H317	N;R51/53
Aquatic Chronic 2 - H411	

SAFETY DATA SHEET ROTAFIX AQUACHEM 3008/3040 BASE PART A

4 FIRST AID MEASURES

GENERAL INFORMATION

Get medical attention immediately. If in doubt, get medical attention promptly. Keep affected person under observation. Never Give anything by mouth to an unconscious person. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen
Move affected person to fresh air at once. Remove affected person from source of contamination. Show this Safety Data Sheet to the medical personnel.

INHALATION

Move the exposed person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.

INGESTION

NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Rinse mouth thoroughly. Get medical attention if any discomfort continues.

SKIN CONTACT:

Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

EYE CONTACT

Remove victim immediately from source of exposure. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

MOST IMPORTANT SYMPTOMS AND EFFECTS BOTH ACUTE AND DELAYED

Seek medical attention in case of contact with Skin, Eyes or IF Inhaled. If adverse develop seek medical attention. Treat symptomatically. The severity of the symptoms described will vary dependant on the concentration and the length of exposure. The product contains a sensitising substance.

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

No specific antidote is known. No specific treatment is known. Treat symptomatically

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.

UNSUITABLE EXTINGUISHING MEDIA

Do not use water jet as an extinguisher, as this may spread the fire.

HAZARDS COMBUSTION PRODUCTS

None under normal conditions. In case of fire, toxic gases (CO, CO₂, NO_x) may be formed

UNUSAL FIRE & EXPLOSION HAZARDS

No unusual fire or explosion hazards noted.

SPECIFIC HAZARDS

In case of fire, toxic gases may be formed (CO_x, NO_x,). Not known

PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS

Wear SCBA breathing apparatus and chemical resistant suits to EN 469 standard

SAFETY DATA SHEET ROTAFIX AQUACHEM 3008/3040 BASE PART A

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Do not handle broken packages without protective equipment, Avoid contact with contaminated tools and objects. Avoid contact with eyes and prolonged skin contact. Avoid inhalation of vapours and contact with skin and eyes. Wash thoroughly after dealing with a spillage. Wear protective clothing as described in Section 8 of this safety data sheet.

ENVIRONMENTAL PRECAUTIONS

Avoid discharge into drains, water courses or onto the ground.

SPILL CLEAN UP METHODS

Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Flush with plenty of water to clean spillage area. Do not contaminate water sources or sewer.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Avoid spilling, skin and eye contact.

STORAGE PRECAUTIONS

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container.

STORAGE CLASS

Chemical storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

WEL = Workplace Exposure Limit.

INGREDIENT COMMENTS

WEL = Workplace Exposure Limit

PROTECTIVE EQUIPMENT



PROCESS CONDITIONS

Provide eyewash station.

ENGINEERING MEASURES

Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours.

RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists. HAND

PROTECTION

Use protective gloves made of: Nitrile. Viton rubber (fluor rubber). Barrier cream applied before work may make it easier to clean the skin after exposure, but does not prevent absorption through the skin.

EYE PROTECTION

Wear tight-fitting goggles or face shield.

OTHER PROTECTION

Wear appropriate clothing to prevent any possibility of skin contact.

HYGIENE MEASURES

DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

SAFETY DATA SHEET ROTAFIX AQUACHEM 3008/3040 BASE PART A

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Liquid – paint like
COLOUR	Amber, Grey, White
ODOUR	Characteristic
SOLUBILITY	Immiscible with water

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions.

CONDITIONS TO AVOID

Avoid excessive heat for prolonged periods of time.

HAZARDOUS POLYMERISATION

Will not polymerise.

MATERIALS TO AVOID

Strong oxidising substances.

HAZARDOUS DECOMPOSITION PRODUCTS

Fire creates: Carbon monoxide (CO). Carbon dioxide (CO₂).

11 TOXICOLOGICAL INFORMATION

INHALATION

Irritating to respiratory system.

INGESTION

May cause stomach pain or vomiting.

SKIN CONTACT

May cause sensitisation by skin contact. Irritating to skin.

EYE CONTACT

Irritating to eyes.

12 ECOLOGICAL INFORMATION

ECOTOXICITY

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

APPEARANCE	Liquid – paint like
COLOUR	Amber, Grey, white
ODOUR	Characteristic
SOLUBILITY	Immiscible with water

Dispose of waste and residues in accordance with local authority requirements.

SAFETY DATA SHEET ROTAFIX AQUACHEM 3008/3040 BASE PART A

14 TRANSPORT INFORMATION



PROPER SHIPPING NAME	ENVIROMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (EPOXY RESIN (Number average MW <=700), epoxy resin)
ENVIROMETNALLY HAZARDOUS SUBSTANCE/MARINE POLLUTANT	No
UN NO. ROAD	3082
ADR CLASS NO.	9
ADR CLASS	Class 9: Miscellaneous dangerous substances and articles
ADR PACK GROUP	III
HAZARD No. (ADR)	90
ADR LABEL NO.	9
HAZCHEM CODE	3Z
UN NO. SEA	3082
IMDG CLASS	9
IMDG PACK GR.	III
EMS	F-A, S-F
UN NO. AIR	3082
AIR CLASS	9
AIR PACK GR.	III
TUNNEL RESTRICTION CODE	(E)

15 REGULATORY INFORMATION

STATUTORY INSTRUMENTS

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (5.1 2009 No. 716).

APPROVED CODE OF PRACTICE

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

GUIDANCE NOTES

Workplace Exposure Limits EH40.

16 OTHER INFORMATION

HAZARD STATEMENTS IN FULL

H319	Causes serious eye irritation
H315	Causes skin irritation
H226	Flammable liquid and vapour
H304	May be fatal if swallowed and enters airways
H317	May cause an allergic skin reaction
H336	May cause drowsiness or dizziness
H335	May cause respiratory irritation
EUH066	Repeated exposure may cause skin dryness or cracking
H411	Toxic to aquatic life with long lasting effects

SAFETY DATA SHEET ROTAFIX AQUACHEM 3008/3040 BASE PART A

RISK PHRASES IN FULL

R10	Flammable.
R65	Harmful: may cause lung damage if swallowed.
R36/38	Irritating to eyes and skin.
R37	Irritating to respiratory system.
R38	Irritating to skin.
R43	May cause sensitisation by skin contact.
R66	Repeated exposure may cause skin dryness or cracking.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R67	Vapours may cause drowsiness and dizziness.

DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warrant) guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

MSDSJUNE2015/3008/3040/A

SAFETY DATA SHEET ROTAFIX AQUACHEM 3008/3040 HARDENER PART B

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME SUPPLIER	ROTAFIX AQUACHEM PART B Rotafix (Northern) Ltd Rotafix House Hennoyadd Road Abercraf, Swansea SA9 1UR
EMAIL	sales@rotafix.co.uk
EMERGENCY TELEPHONE	OFFICE HOURS - +44(0)1639 730481

2. HAZARDS IDENTIFICATION

CLASSIFICATION (1999/45)	Xi;R20/22. Repr. Cat. 3;R62. C;R34. R43	
CLASSIFICATION (EC 1272/2008)	Physical and Chemical Hazards	Not classified.
	Human health	Acute Tox. 4 -H302;Acute Tox. 4 -H332;Skin Corr. 1 B -H314;Skin Sens. 1- H317;Repr. 2 -H361f . H318 Eye serious damage
	Environment	Aquatic Chronic 3 – H412

LABEL I N ACCORDANCE WITH (EC) NO. 1272/2008



SIGNAL WORD	Danger
CONTAINS	isolated amine adduct Epoxid-Polyoxyalkylenamin-Addukt

HAZARD STATEMENTS	H302	Harmful if swallowed
	H314	Causes severe skin burns and eye damage
	H317	May cause an allergic reaction
	H332	Harmful if inhaled
	H361f	Suspected of damaging fertility
	H318	Eye serious damage
PRECAUTIONARY STATEMENTS	P271	Use only outdoors or in a well-ventilated area
	P280	Wear protective gloves/protective clothing/eye protection/face protection
	P281	Use personal protective equipment as required.
	P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P308+313	Get medical advice/attention
	P310	Immediately call a POISON CENTER or doctor/physician
	P501	Dispose of contents/container to....

SAFETY DATA SHEET ROTAFIX AQUACHEM 3008/3040 HARDENER PART B

SUPPLEMENTARY PRECAUTIONARY STATEMENTS

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P270	Do not eat, drink or smoke when using this product
P272	Contaminated work clothing should not be allowed out of the understood
P260	Do not breathe vapour/spray
P261	Avoid breathing vapour/spray
P264	Wash contaminated skin thoroughly after handling
P321	Specific treatment (see medical advice on this label)
P301+312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
P301+330+331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P302+352	IF ON SKIN: Wash with plenty of soap and water
P303+361+353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing Rinse skin with water/shower
P304+340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER or doctor/physician if you feel unwell
P330	Rinse mouth
P333+313	If skin irritation or rash occurs: Get medical advice/attention
P363	wash contaminated clothing before reuse
P405	Store locked up

3 COMPOSITION/INFORMATION ON INGREDIENTS

MIXTURES – EPOXID-POLYOXYALENAMIN – ADDUKT

50-75%

Classification (EC 1272/2008)

Classification (67/548/EEC)

Flam. Liq 3 - H226

R10

Acute Tox. 4 - H302

C;R34

Classification (EC 1272/2008)

Classification (67/548/EEC)

Eye Dam. 1 - H318

Repr. Cat. 3;R62

Skin Sens. 1 - H317

R43

Repr. 2 - H361f

Xi;R37,R41

STOT SE 3 - H335

The Full Text for all R-Phrases and Hazard Statements is Displayed in section 16

SAFETY DATA SHEET ROTAFIX AQUACHEM 3008/3040 HARDENER PART B

4 FIRST-AID MEASURES

DESCRIPTION OF FIRST AID MEASURES

INHALATION

Move the exposed person to fresh air at once. Rinse nose and mouth with water. NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Keep the affected person warm and at rest. Get prompt medical attention.

INGESTION

DO NOT INDUCE VOMITING! NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Rinse mouth thoroughly.

Provide rest, warmth and fresh air. Get medical attention immediately!

SKIN CONTACT

Remove affected person from source of contamination. Rinse the skin immediately with lots of water. Get medical attention promptly if symptoms occur after washing.

EYE CONTACT

Remove victim immediately from source of exposure. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

General information

Seek medical attention in case of contact with skin and eyes or inhalation or ingestion. If adverse symptoms develop seek medical attention
Irritating effects on eyes, seek medical attention on contact with eyes

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Use fire-extinguishing media appropriate for surrounding materials.

UNUSUAL FIRE & EXPLOSION HAZARDS

No unusual fire or explosion hazards noted.

SPECIFIC HAZARDS

In case of fire, toxic gases may be formed (COx, NOx).

PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear protective clothing as described in Section 8 of this safety data sheet. Eye contact MUST be prevented by means of suitable personal protection equipment.

Use protective gloves, goggles and suitable protective clothing. Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation.

ENVIRONMENTAL PRECAUTIONS

Do not allow to enter drains, sewers or watercourses.

METHODS AND MATERIAL FOR CONTAINMENT AND SPILL /CLEAN UP METHODS

Wear necessary protective equipment. Stop leak if possible without risk. DO NOT touch spilled material!, Absorb in vermiculite, dry sand or earth and place into containers.

Do not let washing down water contaminate ponds or waterways.

7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Store in tightly closed original container in a dry, cool and well ventilated place. Keep in original container.

CONDITIONS FOR SAFE STORAGE

Store in tightly closed original container in a dry cool and well ventilated place – keep in original container /pack

SPECIFIC END USE(S)

Refer to product data sheet

SAFETY DATA SHEET ROTAFIX AQUACHEM 3008/3040 HARDENER PART B

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

INGREDIENT COMMENTS

WEL = Workplace Exposure Limits

PROTECTIVE EQUIPMENT



PROCESS CONDITIONS Provide eyewash station.

ENGINEERING MEASURES

Provide adequate general and local exhaust ventilation.

RESPIRATORY EQUIPMENT

If ventilation is insufficient, suitable respiratory protection must be provided. Use chemical cartridge protection with appropriate cartridge.

HAND PROTECTION Nitrile gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable. Barrier cream applied before work may make it easier to clean the skin after exposure, but does not prevent absorption through the skin.

EYE PROTECTION

Wear tight-fitting goggles or face shield.

OTHER PROTECTION

Wear appropriate clothing to prevent any possibility of skin contact.

HYGIENE MEASURES

Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap & water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Clear, yellowish liquid.
COLOUR	Yellowish
ODOUR	Amine.
SOLUBILITY	Immiscible with water
BOILING POINT (°C)	100
MELTING POINT (°C)	Not determined
RELATIVE DENSITY	1.08
VAPOUR PRESSURE	23,392 hPa
VISCOSITY	n/a
FLASH POINT (°C)	n/a
AUTO IGNITION	Not detected

10 STABILITY AND REACTIVITY

REACTIVITY

No specific reactivity hazards associated with this product

CHEMICAL STABILITY

Stable under normal temperature conditions.

CONDITIONS TO AVOID Reacts violently with strong oxidising substances. HAZARDOUS POLYMERISATION

Will not polymerise.

MATERIALS TO AVOID

Strong oxidising substances. Strong acids.

HAZARDOUS DECOMPOSITION PRODUCTS

In case of fire, toxic gases (CO, CO₂, NO_x) may be formed.

11 TOXICOLOGICAL INFORMATION

INHALATION

May cause sensitisation by inhalation. May cause respiratory allergy.

INGESTION

Harmful if swallowed. May cause chemical burns in mouth and throat.

SAFETY DATA SHEET ROTAFIX AQUACHEM 3008/3040 HARDENER PART B

APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply.

GUIDANCE NOTES

Workplace Exposure Limits EH40.

16 OTHER INFORMATION

RISK PHRASES IN FULL

R34	Causes burns.
R10	Flammable.
R20/22	Harmful by inhalation and if swallowed.
R22	Harmful if swallowed.
R21/22	Harmful in contact with skin and if swallowed.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R36/38	Irritating to eyes and skin.
R37	Irritating to respiratory system.
R43	May cause sensitisation by skin contact.
R62	Possible risk of impaired fertility.
R41	Risk of serious damage to eyes.

HAZARD STATEMENTS IN FULL

H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H226	Flammable liquid and vapour.
H332	Harmful if inhaled.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H412	Harmful to aquatic life with long lasting effects.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.
H361f	Suspected of damaging fertility.

DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warrant) guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

MSDSJUNE2015/3008/3040/B