

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

Product identifier ROTAFIX RM20 LW (Light Weigth) MORTAR (BASE) PART A
Product Name ROTAFIX RM20 LW (Light Weight) MORTAR (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

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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

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



GHS07

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 (average molecular weight <700)

REACTION PRODUCT BISPHENOL - A



HAZARD STATEMENTS H315 Causes skin irritation

H317 May cause an allergic skin reaction

H319 Causes serious eye irritation

H411 Toxic to aquatic life with long lasting effects

PRECAUTIONARY STATEMENTS P273 Avoid release to the environment

P280 Wear protective gloves/protective clothing/eye protection/face protection

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

Contact lenses, if present and easy to do. Continue rinsing.

P313 Get medical advice/attention

P501a Dispose of contents / container in accordance

with local/regional/national / international regulations

SUPPLEMENTARY PRECAUTIONARY STATEMENTS

P272 Contaminated work clothing should not be allowed out of the workplace

P261 Avoid breathing vapour/spray

P264 Wash contaminated skin thoroughly after handling
P321 Specific treatment (see medical advice on this label)
P302+352 IF ON SKIN: Wash with plenty of soap and water
P332+313 If skin irritation occurs: Get medical advice/attention

P333+313 If skin irritation or rash occurs: Get medical advice/attention

P337 If eye irritation persists: Get medical advice/attention
P362 Take off contaminated clothing and wash before reuse

P363 Wash contaminated clothing before reuse

P391 Collect spillage.

(OTHER HAZARDS) This product does not contain any PBT or v PvB

3 COMPOSITION/INFORMATION ON INGREDIENTS

BISPHENAL F EPOXY RESIN 10 – 30%

CAS-No.: 9003-36-5

OXIRANE,MONO (C12-14 ALKYLOXY)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



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, NOx) 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 (COx, NOx,). Not known

PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS

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



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 EOUIPMENT

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.



10 STABILITY AND REACTIVITY

APPEARANCE COLOUR ODOUR SOLUBILITY Liquid Amber, Characteristic Immiscible with water

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 (C02).

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

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

APPEARANCE Liquid
COLOUR Amber,
ODOUR Characteristic

SOLUBILITY Immiscible with water



14 TRANSPORT INFORMATION



PROPER SHIPPING NAME ENVIROMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (EPOXY RESIN (Number

average MW <=700), epoxy resin)

ENVIROMETNALLY No

HAZARDOUS

SUBSTANCE/MARINE

POLLUTANT

UN NO. ROAD 3082 ADR CLASS NO. 9

ADR CLASS Class 9: Miscellaneous dangerous substances and articles

ADR PACK GROUP Ш HAZARD No. (ADR) 90 ADR LABEL NO. 9 HAZCHEM CODE 3Z UN NO. SEA 3082 IMDG CLASS 9 IMDG PACK GR. Ш **EMS** F-A, S-F UN NO. AIR 3082 AIR CLASS q AIR PACK GR. Ш 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



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.

MSDSJUNE2015/3370/3375/3378/A



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

PRODUCT NAME ROTAFIX RM20 LW (Light Weight) MORTAR PART B

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2. HAZARDS IDENTIFICATION

CLASSIFICATION (1999/45) CLASSIFICATION (EC 1272/2008) Xn;R21/22.C: R34. R43. R52/53

Physical and Chemical Hazards Not classified.

Human health Acute Tox. 4 -H302; Acute Tox. 4 -H332; Skin Corr. 1 B -H314; Skin

Sens.1 - H 317

Environment Aquatic Chronic 3 – H412

LABEL I N ACCORDANCE WITH (EC) NO. 127212008





GHS08

GHS05

GHS07

SIGNAL WORD Danger

CONTAINS Blend : Aliphatic Amine, Isophorondiamine

HAZARD STATEMENTS H302 Harmful if swallowed

H302 Harmful in contact with skin

H314 Causes severe skin burns and eye damage

H317 May cause an allergic reaction

H412 Harmful to aquatic life with long lasting effects

PRECAUTIONARY STATEMENTS 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....



. 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 soup 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

BENZYL ALCOHOL 30-50% CAS-No: 100-51-6

M-PHENYLENEBIS(METHYLAMINE) 10-30% CAS-No: 1477-55-0

3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE 30-50% CAS-No: 2855-13-2

SALICYLIC ACID 1-10% CAS-No: 69-72-7

Classification (EC 1272/2008) Classification (67/548/EEC)

Skin Irrit. 2 – H315 Xi:r36/37/38.

Eye Irrit. 2 – H319 N:R51/53.

STOT SE 3 - H335 Aquatic Chronic 2 - H411

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



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 SYMTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

General information

Seek medical attention in cause 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



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 (°Ć) 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, C02, NOx) may be formed.

11 TOXICOLOGICAL INFORMATION

INHALATION

May cause sensitisation by inhalation. May cause respiratory allergy.

INGESTION

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



SKIN CONTACT

Causes burns. May cause allergic contact eczema. Acts as a defatting agent on skin. May cause cracking of skin, and eczema. May cause sensitisation by skin contact

EYE CONTACT

Causes burns. Extreme irritation of eyes and mucous membranes, including burning and tearing.

ROUTE OF ENTRY

Inhalation. Ingestion. Skin and or Eye contact

12 ECOLOGICAL INFORMATION

ECOTOXICITY

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

LC 50, 96 Hrs, FISH m9/1 10
EC 50, 48 Hrs, DAPHNIA, mg/I 100
IC 50, 72 Hrs, ALGAE, mg/I 79

WATER HAZARD CLASSIFICATION

WGK2

13 DISPOSAL CONSIDERATIONS

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

14 TRANSPORT INFORMATION



PROPER SHIPPING NAME AMINES, LIQUID, CORROSIVE , N.O.S. (m-PHENYLENEBIS (METHYLAMINE), ISOPHORONEDIAMINE)

ENVIRONMENTALLY No

HAZARDOUS

SUBSTANCE/MARINE

POLLUTANT

UN NO. ROAD 2735 ADR CLASS NO. 8

ADR CLASS Class 8: Corrosive substances

ADR PACK GROUP Ш TUNNEL RESTRICTION CODE (E) HAZARD No. (ADR) 80 ADR LABEL NO. 8 **HAZCHEM CODE** 2X UN NO.SEA 2735 **IMDG CLASS** 8 IMDG PACK GR Ш **EMS** F-A, S-B UN NO. AIR 2735 AIR CLASS 8 AIR PACKGR Ш

15 REGULATORY INFORMATION

EU DIRECTIVES Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

STATUTORY INSTRUMENTS The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716). Control of Substances Hazardous to Health.



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 bums 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.