

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

Product identifier	ROTAFIX LAMSET LIQUID (BASE) PART A
Product Name	ROTAFIX LAMSET LIQUID (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

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

	011017
Skin Irrit. 2	GHS07 H315 Causes skin irritation
Eye Irrit. 2	H319 Causes serious eye irritation
Skin Sens.1	H317 May cause an allergic skin reaction

SIGNAL WORD	Warning
CONTAINS	Epoxy resin 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 PRECAUTIONA	RY STATE	MENTS	
	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	



## 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 VOMITOR 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.



### 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE COLOUR ODOUR SOLUBILITY Liquid Amber, Characteristic Immiscible with water

### **10 STABILITY AND REACTIVITY**

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

APPEARANCE COLOUR ODOUR SOLUBILITY Liquid Amber, Characteristic Immiscible with water

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



### **14 TRANSPORT INFORMATION**



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

PROPER SHIPPING NAME

	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	III
HAZARD No. (ADR)	90
ADR LABEL NO.	9
HAZCHEM CODE	3Z
UN NO. SEA	3082
IMDG CLASS IMDG PACK GR.	9 
EMS	III 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



## **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.

MSDSJUNE2015/3992/3995/A



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

PRODUCT NAME SUPPLIER	ROTAFIX LAMSET LIQUID PA Rotafix (Northern) Ltd Rotafix House Hennoyadd Road Abercraf, Swansea SA9 1UR	ART B
EMAIL	sales@rotafix.co.uk	
EMERGENCY TELEPHONE	OFFICE HOURS - +44(0)1639	730481
2. HAZARDS IDENTIFICATION		
CLASSIFICATION (1999/45) CLASSIFICATION (EC 1272/2008)	Xn;R21/22.C: R34. R43. R52/5	53
	Physical and Chemical Hazards Human health	Not classified. 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) N	NO. 127212008	
	GHS05 GHS	507 GHS08
SIGNAL WORD CONTAINS	Danger Blend : m-PHENYLENEBIS(MI	ETHYLAMINE), TRIMETHYL HEXAMETHYLENE DIAMINE 4 tert-butylphenol
HAZARD STATEMENTS	H302 H302 H314 H317 H412	Harmful if swallowed Harmful in contact with skin Causes severe skin burns and eye damage May cause an allergic reaction Harmful to aquatic life with long lasting effects
PRECAUTIONARY STATEMENTS	P280 P281 P305+351+338 P308+313 P310 P501	Wear protective gloves/protective clothing/eye protection/face protection Use personal protective equipment as required. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention Immediately call a POISON CENTER or doctor/physician 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	I F 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		
Tert – BUTYL PHENOL	50-75%	CAS-No: 98-54-4
TRIMETHYL HEXAMETHYLENE DIAMINE	1-6%	CAS-No: 25513-64-8
M-PHENYLENEBIS(METHYLAMINE)	25-50%	CAS-No: 1477-55-0

Classification (EC 1272/2008)	Classification (67/548/EEC)	
Skin Irrit. 2 – H315	X i: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



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 CHEMICA	PHYSICAL AND CHEMICAL PROPERTIES	
APPEARANCE COLOUR ODOUR	Liquid . Clear / Yellowish Amine Like	
BOILING POINT (°C)	100	
VISCOSITY	n/a	

## **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 High temperatures generate : Vapours /Gases/Fumes (CO, C02,) 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 - Dangerous for the environment: may cause long-term adverse effects in the aquatic environment.

TOXICITY - No data available

PERSISTENCE and DEGRADABILITY - No data available

BIOACCUMULATIVE POTENTIAL - No data available on bioaccumulation

MOBILITY in SOIL – Readily absorbed into soil

RESULTS of PBT and vPvB assessment – This product does not contain any PBT or vPvB substances

WATER HAZARD CLASSIFICATION

#### **13 DISPOSAL CONSIDERATIONS**

#### DISPOSAL METHODS

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

### **14 TRANSPORT INFORMATION**



PROPER SHIPPING NAME	CORROSIVE LIQUID, N.O.S. (m-PHENYLENEBIS(METHYLAMINE),(ALIPHATIC AMINE)
ENVIRONMENTALLY HAZARDOUS SUBSTANCE/MARINE POLLUTANT UN NO. ROAD	No 2735
ADR CLASS NO.	8
ADR CLASS	Class 8: Corrosive substances
ADR PACK GROUP	III
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	III
EMS	F-A, S-B
UN NO. AIR	2735
AIR CLASS	8
AIR PACKGR	III

#### **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.

MSDSJUNE2015/33992/3995/B