SAFETY DATA SHEET

Rizistal flexible jointing mastic base

HISTORIC

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name

Rizistal flexible jointing mastic base

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

Relevant identified uses of the substance or mixture

Flooring mixture, part A
Restricted to professional users.

Uses advised against

None known.

1.3. Details of the supplier of the safety data sheet

Company and address

John L. Lord & Son (Rizistal) Ltd.
Unit 4, Park 66
BL9 8RZ Bury
England
+44 (0) 161 764 4617
www.john-lord.co.uk

Contact person

Sam Norris

E-mail

samnorris@john-lord.co.uk

Revision

14/10/2024

SDS Version

3.0

Date of previous version

14/10/2024 (3.0)

1.4. Emergency telephone number

Healthcare professionals: Dial 0344 892 0111 to reach The National Poisons Information Service (NPIS) (24 hour service)
General public:
England - Dial 111 to reach NHS 111 (24 hour service)
Scotland - Dial 112 to reach NHS 24 (24 hour service)
Wales - Dial 111 or 0845 4647 to reach NHS Direct (24 hour service)
See section 4 “First aid measures”.

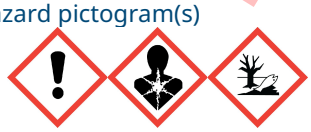
SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Skin Irrit. 2; H315, Causes skin irritation.
Skin Sens. 1; H317, May cause an allergic skin reaction.
Eye Irrit. 2; H319, Causes serious eye irritation.
Repr. 1B; H360F, May damage fertility.
Aquatic Chronic 2; H411, Toxic to aquatic life with long lasting effects.

2.2. Label elements

Hazard pictogram(s)



Signal word
Danger

Hazard statement(s)
Causes skin irritation. (H315)
May cause an allergic skin reaction. (H317)
Causes serious eye irritation. (H319)
May damage fertility. (H360F)
Toxic to aquatic life with long lasting effects. (H411)

Precautionary statement(s)

General
-

Prevention
Obtain special instructions before use. (P201)
Avoid breathing mist/vapour. (P261)
Wear eye protection/protective gloves/protective clothing. (P280)

Response
IF exposed or concerned: Get medical advice/attention. (P308+P313)
If skin irritation or rash occurs: Get medical advice/attention. (P333+P313)

Storage
-

Disposal
Dispose of contents/container in accordance with local regulation (P501)

Hazardous substances
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[1,6-hexanediylbis(oxymethylene)]bis[oxirane]
bis-[4-(2,3-epoxipropoxi)phenyl]propane
1,6-bis(2,3-epoxypropoxy)hexane
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol
Cashew, nutshell liq.

Additional labelling
EUH204, Contains isocyanates. May produce an allergic reaction.
Restricted to professional users.

2.3. Other hazards

Additional warnings
Contains epoxy constituents. May produce an allergic reaction.
This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.
This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2023/707.

SECTION 3: Composition/information on ingredients

3.1. Substances
Not applicable. This product is a mixture.

3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[1,6-hexanediylbis(oxymethylene)]bis[oxirane]	CAS No.: 356761-34-7 EC No.: 609-160-1 UK-REACH: Index No.:	25-40%	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Aquatic Chronic 3, H412	
bis-[4-(2,3-epoxipropoxi)phenyl]propane	CAS No.: 1675-54-3 EC No.: 216-823-5 UK-REACH: Index No.: 603-073-00-2	25-40%	Skin Irrit. 2, H315 (SCL: 5.00 %) Skin Sens. 1, H317 Eye Irrit. 2, H319 (SCL: 5.00 %) Aquatic Chronic 2, H411	
1,6-bis(2,3-epoxypropoxy)hexane	CAS No.: 16096-31-4 EC No.: 240-260-4 UK-REACH:	5-10%	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319	

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	Index No.:		Aquatic Chronic 3, H412	
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	CAS No.: 68609-97-2 EC No.: 271-846-8 UK-REACH: Index No.: 603-103-00-4	5-10%	Skin Irrit. 2, H315 Skin Sens. 1, H317 Repr. 1B, H360F	[19]
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	CAS No.: 9003-36-5 EC No.: 500-006-8 UK-REACH: Index No.:	5-10%	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411	
Cashew, nutshell liq.	CAS No.: 8007-24-7 EC No.: 232-355-4 UK-REACH: Index No.:	<1%	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Irrit. 2, H315 Skin Sens. 1A, H317 Eye Dam. 1, H318	[19]

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

[19] UVCB = Unknown or variable composition, complex reaction products or of biological materials

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.
If skin irritation occurs: Get medical advice/attention.

Eye contact

If in eyes: Flush eyes immediately with plenty of water or isotonic water (20-30 °C) for at least 5 minutes and continue until irritation stops. Remove contact lenses. Make sure to flush under upper and lower eyelids. If irritation continues, contact a doctor. Continue flushing during transport.

Ingestion

If the person is conscious, rinse the mouth with water and stay with the person. Never give the person anything to drink.
In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the person lean forward with head down to avoid inhalation of or choking on vomited material.

Burns

Not applicable.

4.2. Most important symptoms and effects, both acute and delayed

Sensitisation: This product contains substances, which may trigger allergic reaction upon dermal contact.
Manifestation of allergic reactions typically takes place within 12-72 hours after exposure.

4.3. Indication of any immediate medical attention and special treatment needed

IF exposed or concerned:
Get immediate medical advice/attention.
If skin irritation or rash occurs: Get medical advice/attention.

Information to medics

Bring this safety data sheet or the label from this product.

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SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.
Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

5.2. Special hazards arising from the substance or mixture
Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.
If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:
Carbon oxides (CO / CO2)

5.3. Advice for firefighters
Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Avoid direct contact with spilled substances.
Ensure adequate ventilation, especially in confined areas.
Contaminated areas may be slippery.

6.2. Environmental precautions
Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities.

6.3. Methods and material for containment and cleaning up
Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.
Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections
See section 13 “Disposal considerations” on handling of waste.
See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
It is recommended to install waste collection trays in order to prevent emissions to the waste water system and surrounding environment.
Avoid direct contact with the product.
Avoid contact during pregnancy and while nursing.
Smoking, drinking and consumption of food is not allowed in the work area.
See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities
Store locked up. A sign warning of toxic materials shall be affixed the room and cupboard containing the product(s).
Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage material
Keep only in original packaging.

Storage conditions
Dry, cool and well ventilated

Incompatible materials
Keep only in original packaging.

7.3. Specific end use(s)
This product should only be used for applications quoted in section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
2,6-dimethylheptan-4-one;di-isobutyl ketone

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Long term exposure limit (8 hours) (ppm): 25
Long term exposure limit (8 hours) (mg/m³): 148

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002. EH40/2005 Workplace exposure limits (Fourth Edition 2020).

DNEL

2,6-dimethylheptan-4-one;di-isobutyl ketone

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - Workers	Dermal	7.7 mg/kg bw/day
Long term – Systemic effects - Workers	Inhalation	53 mg/m³

bis-[4-(2,3-epoxipropoxi)phenyl]propane

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - Workers	Dermal	750 µg/kg bw/day
Long term – Systemic effects - Workers	Inhalation	4.93 mg/m³

oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - Workers	Dermal	1 mg/kg bw/day
Long term – Systemic effects - Workers	Inhalation	3.6 mg/m³

PNEC

2,6-dimethylheptan-4-one;di-isobutyl ketone

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		30 µg/L
Freshwater sediment		460 µg/kg
Intermittent release (freshwater)		300 µg/L
Marine water		3 µg/L
Marine water sediment		46 µg/kg
Sewage treatment plant		2.55 mg/L
Soil		74.6 µg/kg

bis-[4-(2,3-epoxipropoxi)phenyl]propane

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		6 µg/L
Freshwater sediment		341 µg/kg
Intermittent release (freshwater)		18 µg/L
Intermittent release (marine water)		1.8 µg/L
Marine water		600 ng/L
Marine water sediment		34.1 µg/kg
Predators		11 mg/kg
Sewage treatment plant		10 mg/L
Soil		64.7 µg/kg

Cashew, nutshell liq.

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		5.82 µg/L
Marine water		580 ng/L
Sewage treatment plant		10 mg/L

oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

HISTORIC

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		105.8 µg/L
Freshwater sediment		307.16 mg/kg
Intermittent release (freshwater)		72 µg/L
Marine water		10.58 µg/L
Marine water sediment		30.72 mg/kg
Sewage treatment plant		10 mg/L
Soil		1.234 mg/kg

8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios

There are no exposure scenarios implemented for this product.

Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures

Do not recirculate outlet air that contain the substances.
The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.
Apply standard precautions during use of the product. Avoid inhalation of vapours.

Hygiene measures

Take off contaminated clothing and wash it before reuse.

Measures to avoid environmental exposure

Keep damming materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment

Generally

Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.
This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (e.g. type A1 according to standard EN 14387) is used.
Use only UKCA marked protective equipment.

Respiratory Equipment

Type	Class	Colour	Standards
Combination filter A2P3	Class 2/3	Brown/White	EN14387

Skin protection

Recommended	Type/Category	Standards
Dedicated work clothing should be worn.	-	-

Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards
Cotton/Nitril	-	> 240	EN374-2, EN374-3, EN388

Eye protection

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Type	Standards
Safety glasses	EN166

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state
Liquid

Colour
Turbid

Odour / Odour threshold
No relevant or available data due to the nature of the product.

pH
No relevant or available data due to the nature of the product.

Density (g/cm^3)
No relevant or available data due to the nature of the product.

Kinematic viscosity
No relevant or available data due to the nature of the product.

Particle characteristics
Does not apply to liquids.

Phase changes

Melting point/Freezing point (°C)
No relevant or available data due to the nature of the product.

Softening point/range (°C)
Does not apply to liquids.

Boiling point (°C)
No relevant or available data due to the nature of the product.

Vapour pressure
No relevant or available data due to the nature of the product.

Relative vapour density
No relevant or available data due to the nature of the product.

Decomposition temperature (°C)
No relevant or available data due to the nature of the product.

Data on fire and explosion hazards

Flash point (°C)
No relevant or available data due to the nature of the product.

Flammability (°C)
No relevant or available data due to the nature of the product.

Auto-ignition temperature (°C)
No relevant or available data due to the nature of the product.

Lower and upper explosion limit (% v/v)
No relevant or available data due to the nature of the product.

Solubility

Solubility in water
No relevant or available data due to the nature of the product.

n-octanol/water coefficient (LogKow)
No relevant or available data due to the nature of the product.

Solubility in fat (g/L)
No relevant or available data due to the nature of the product.

9.2. Other information

Oxidizing properties
No relevant or available data due to the nature of the product.

Other physical and chemical parameters
No data available.

HISTORIC

SECTION 10: Stability and reactivity

10.1. Reactivity
No data available.

10.2. Chemical stability
The product is stable under the conditions, noted in section 7 “Handling and storage”.

10.3. Possibility of hazardous reactions
None known.

10.4. Conditions to avoid
None known.

10.5. Incompatible materials
Keep only in original packaging.

10.6. Hazardous decomposition products
Under normal conditions of storage and use, hazardous decomposition products should not be produced

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 as retained and amended in UK law

Acute toxicity
Based on available data, the classification criteria are not met.

Skin corrosion/irritation
Causes skin irritation.

Serious eye damage/irritation
Causes serious eye irritation.

Respiratory sensitisation
Based on available data, the classification criteria are not met.

Skin sensitisation
May cause an allergic skin reaction.

Germ cell mutagenicity
Based on available data, the classification criteria are not met.

Carcinogenicity
Based on available data, the classification criteria are not met.

Reproductive toxicity
May damage fertility.

STOT-single exposure
Based on available data, the classification criteria are not met.

STOT-repeated exposure
Based on available data, the classification criteria are not met.

Aspiration hazard
Based on available data, the classification criteria are not met.

11.2. Information on other hazards

Long term effects
Reproductive toxicity: This product contains reprotoxic substances, which may harm the reproductive capacity. Adverse effects include: sterility, effects on the sexual function, lowered effective fertility and dysfunctional menstrual cycle.
Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

Endocrine disrupting properties
This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health.

Other information
bis-[4-(2,3-epoxipropoxi)phenyl]propane has been classified by IARC as a group 3 carcinogen.

SECTION 12: Ecological information

12.1. Toxicity
Toxic to aquatic life with long lasting effects.

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12.2. Persistence and degradability
Based on available data, the classification criteria are not met.

12.3. Bioaccumulative potential
Based on available data, the classification criteria are not met.

12.4. Mobility in soil
No data available.

12.5. Results of PBT and vPvB assessment
This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

12.6. Endocrine disrupting properties
This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

12.7. Other adverse effects
This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.
This product contains substances, which may cause adverse long-term effects to the aquatic environment.

SECTION 13: Disposal considerations

Waste treatment methods
Product is covered by the regulations on hazardous waste. (*)
HP 4 - Irritant (skin irritation and eye damage)
HP 10 – Toxic for reproduction
HP 13 – Sensitising
HP 14 – Ecotoxic
Dispose of contents/container to an approved waste disposal plant.
Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

EWC code
20 01 27* Paint, inks, adhesives and resins containing dangerous substances
08 05 01* Waste isocyanates

Specific labelling

Contaminated packing

EWC code
08 05 01* Waste isocyanates
15 01 10* Packaging containing residues of or contaminated by dangerous substances

SECTION 14: Transport information

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
ADR	-	-	-	-	-	-
IMDG	-	-	-	-	-	-
IATA	-	-	-	-	-	-

* Packing group
** Environmental hazards

Additional information
This product is within scope of the regulations of transport of dangerous goods.

14.6. Special precautions for user
Not applicable.

14.7. Maritime transport in bulk according to IMO instruments
No data available.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Restrictions for application
Restricted to professional users.

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People under the age of 18 shall not be exposed to this product.
Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

Demands for specific education

Use of this product requires dedicated training in work with polyurethane and epoxy products.

Control of Major Accident Hazards (COMAH) - Categories / dangerous substances

E2 - ENVIRONMENTAL HAZARDS, Qualifying quantity (lower-tier): 200 tonnes / (upper-tier): 500 tonnes

UK-REACH, Annex XVII

2,6-dimethylheptan-4-one;di-isobutyl ketone is subject to UK-REACH restrictions (entry 40).

Additional information

Not applicable.

Sources

The Management of Health and Safety at Work Regulations 1999.
The Health and Safety at Work etc. Act 1974 Regulations 2013.
Control of Major Accident Hazards (COMAH) Regulations 2015.
Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.
Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) as retained and amended in UK law.
Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as retained and amended in UK law.

15.2. Chemical safety assessment

No

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

H302, Harmful if swallowed.
H312, Harmful in contact with skin.
H315, Causes skin irritation.
H317, May cause an allergic skin reaction.
H318, Causes serious eye damage.
H319, Causes serious eye irritation.
H360F, May damage fertility.
H411, Toxic to aquatic life with long lasting effects.
H412, Harmful to aquatic life with long lasting effects.

Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
CAS = Chemical Abstracts Service
CE = Conformité Européenne (European conformity)
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
CSA = Chemical Safety Assessment
CSR = Chemical Safety Report
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EINECS = European Inventory of Existing Commercial chemical Substances
ES = Exposure Scenario
EUH statement = CLP-specific Hazard statement
EuPCS = European Product Categorisation System
EWC = European Waste Catalogue
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
GWP = Global warming potential
IARC = International Agency for Research on Cancer (IARC)
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
OECD = Organisation for Economic Co-operation and Development

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PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SCL = A specific concentration limit
SVHC = Substances of Very High Concern
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
TWA = Time weighted average
UN = United Nations
UVBC = Unknown or variable composition, complex reaction products or of biological materials
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.
The classification of the substance/mixture in regard of environmental hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

The safety data sheet is validated by

Samuel Norris

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.
The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.
It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.
Country-language: GB-en

HISTORIC