

SAFETY DATA SHEET

according to applicable EC directive



Ident-No: Restor 22 Resin

Version 2

Revision Date 12.01.2014

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

Product information

Trade name: Restor 22 Resin
Use: Epoxy Paste
Company: Restoration UK Ltd
Unit 3, 18 Hanford Way
Loughborough LE11 1LS
Telephone: 01509 217750

For further Product EHS related questions concerning this document or its contents, please contact:
www.restorationuk.com

2. HAZARDS IDENTIFICATION

Irritating to eyes and skin.
May cause sensitization by skin contact.
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature
Formulated bisphenol A epoxy resin
preparation

Hazardous components

Chemical Name	CAS-No.	Symbol(s):	R-phrase(s)	Concentration [%]
reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight < 700)	25068-38- 6	Xi, N	R36/38 R43 R51/53	70.00 - 85.00
triarylphosphate, isopropylated EC-No.: 273-066-3	68937-41- 7	Xn	R62 R63	1.00 - 5.00

4. FIRST AID MEASURES

Inhalation: Move to fresh air.
If symptoms persist, call a physician.
Eye contact: Rinse immediately with plenty of water for at least 15 minutes.
If eye irritation persists, consult a specialist.

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Ident-No: Restor 22 Resin

Version 2

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- Skin contact: Wash off with soap and plenty of water.
If skin irritation persists, call a physician.
- Ingestion: Immediately give plenty of water (if possible charcoal slurry).
Obtain medical attention.
Do not induce vomiting.

5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media: Water spray.
Carbon dioxide (CO₂).
Foam.
Dry powder.
- Extinguishing media which must not be used for safety reasons: High volume water jet.
- Special protective equipment for fire-fighters: Wear self-contained breathing apparatus and protective suit.
- Further information: Burning produces obnoxious and toxic fumes. Carbon oxides.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions: Keep away from sources of ignition - No smoking.
Avoid contact with skin, eyes and clothing.
Do not breathe vapours/dust.
- Environmental precautions: Do not allow material to contaminate ground water system.
Prevent product from entering drains.
- Methods for cleaning up: Soak up with inert absorbent material and dispose of as hazardous waste.

7. HANDLING AND STORAGE

Handling

- Advice on safe handling: Provide sufficient air exchange and/or exhaust in work rooms.
Ensure adequate ventilation.
Handle and open container with care.

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Ident-No: Restor 22 Resin

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Revision Date 12.01.2014

Storage

Further information on: Keep away from food, drink and animal feeding stuffs.

storage conditions: Keep container tightly closed.
Keep at temperatures between 6 and 28°C.

Storage hazard class: Storage class 10, Environmentally hazardous liquids.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Control parameters	Update	Basis
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Personal protective equipment

Respiratory protection: In case of insufficient ventilation wear suitable respiratory equipment.
Filter type AX-P2 (organic vapours, particles)

Eye protection: Tightly fitting safety goggles.
Face-shield.

Hand protection: Material of gloves for long term application (BTT>480 min)
Butyl rubber
Ethyl Vinyl Alcohol Laminate (EVAL)
Material of gloves for short term/splash application (10 min<BTT<480 min)
Nitrile rubber
Neoprene rubber
Use gloves approved to relevant standards e.g. EN 374 (Europe), F739 (US).
Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material and dexterity. Always seek advice from glove suppliers.

Skin and body protection: Protective suit.
Safety shoes.

Protective measures: Keep away from sources of ignition - No smoking.
Avoid contact with skin, eyes and clothing.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	paste
Colour:	brown
Odour:	slight
pH:	approx.10 at (20 °C) 1:1 in water
Boiling point:	> 200 °C
Thermal decomposition:	> 200 °C
Flash point:	> 200 °C
Method:	DIN 51758 (Pensky-Martens Closed Cup)
Vapour pressure:	< 0.01 Pa at 20 °C
Density:	0.6 g/cm ³ at 25 °C
Water solubility:	at 20 °C Note: insoluble
Miscibility with water:	immiscible at 20 °C

10. STABILITY AND REACTIVITY

Conditions to avoid:	Note: Take necessary action to avoid static electricity discharge.
Materials to avoid:	Strong acids and strong bases. Strong oxidizing agents.
Hazardous decomposition products:	Carbon oxides. Burning produces obnoxious and toxic fumes.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity:	LD50 rat Dose: > 5,000 mg/kg
Eye irritation:	irritating rabbit
Skin irritation:	irritating rabbit dermal
Sensitisation:	Causes sensitisation. guinea pig dermal

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Version 2

Revision Date 12.01.2014

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

Biodegradability: Result: Not readily biodegradable.

Ecotoxicity effects

Further information on ecology

Additional ecological information: Avoid subsoil penetration.
Prevent product from entering drains.
Do not contaminate surface water.

13. DISPOSAL CONSIDERATIONS

Container: Empty containers can be landfilled after cleaning, when in compliance with the Environmental Protection (Duty of Care) Regulations 1991.

Product: Waste Key Number: 070208
Must be incinerated, when in compliance with local regulations.

14. TRANSPORT INFORMATION

Land transport

ADR:
UN-No: 3082
Class: 9
Classification code: M6
Packaging group: III
Risk No: 90
ADR/RID-Labels: 9
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
contains: BISPHENOL A EPOXY RESIN

RID:
UN-No: 3082
Class: 9
Packaging group: III
Risk No: 90
ADR/RID-Labels: 9
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
contains: BISPHENOL A EPOXY RESIN

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Sea transport

IMDG:
UN-No: 3082
Class: 9
Packaging group: III
ADR/RID-Labels: 9
MFAG:
EmS: F-A S-F
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
contains: (BISPHENOL A EPOXY RESIN)

Air transport

IATA-DGR:
UN/ID No.: UN 3082
Class: 9
Packaging group: III
Packing instruction
(cargo aircraft): 914
Max. Qty/Pack.: 450.00 L
(999.00 = No limit)
Packing instruction
(passenger aircraft): 914
Max Qty/Pack: 450.00 L
(999.00 = No limit)
ADR/RID-Labels: 9
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
contains: (BISPHENOL A EPOXY RESIN)

15. REGULATORY INFORMATION

Labelling according to EEC Directive

Labelling required

Symbol(s):	Xi	Irritant
	N	Dangerous for the environment
R-phrase(s) :	R36/38	Irritating to eyes and skin.
	R43	May cause sensitization by skin contact.
	R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrase(s) :	S28	After contact with skin, wash immediately with plenty of soap and water.

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S37/39 Wear suitable gloves and eye/face protection.
S61 Avoid release to the environment. Refer to
 special instructions/safety data sheets.

Exceptional labelling of
special preparations:

Contains epoxy constituents. See information supplied
by the manufacturer.

Hazardous components
which must be listed
on the label:

reaction product: bisphenol A-(epichlorhydrin); epoxy resin
(number average molecular weight < 700)

National legislation

Notification status:

EINECS yes
TSCA yes
DSL yes
AICS yes
KECI (KR) yes
JEX (JP) no
INV (CN) yes
PICCS (PH) yes

16. OTHER INFORMATION

List of R-phrases (Section 3)

R36/38	Irritating to eyes and skin.
R43	May cause sensitization by skin contact.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R62	Possible risk of impaired fertility.
R63	Possible risk of harm to the unborn child.

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The provision of Safety Data Sheets comes under Regulation 6 of CHIP (CHIP is the recognised abbreviation for the Chemicals Hazard Information and Packaging Regulations). This is an addition to the Health and Safety at Work Act 1974.

Users of products supplied by Restoration UK Limited should take appropriate measures to ensure working practices are in accordance with the Control of Substances Hazardous to Health Regulations (COSHH).

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