

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

1.1. Product identifier

Product name: RC78 RESIN

Product code: 33

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

Use of substance / mixture: PC1: Adhesives, sealants. PC9a: Coatings and paints, thinners, paint removers. PC9b: Fillers, putties, plasters, modelling clay. PC32: Polymer preparations and compounds. PROC1: Use in closed process, no likelihood of exposure PROC2: Use in closed, continuous process with occasional controlled exposure PROC3: Use in closed batch process (synthesis or formulation) PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises PROC5: Mixing or blending in batch processes for formulation of preparations* and articles (multistage and/or significant contact) PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing) PROC10: Roller application or brushing PROC13: Treatment of articles by dipping and pouring PROC19: Hand-mixing with intimate contact and only PPE available ERC2: Formulation of preparations* ERC3: Formulation in materials ERC5: Industrial use resulting in inclusion into or onto a matrix ERC6d: Industrial use of process regulators for polymerisation processes in production of resins, rubbers, polymers

1.3. Details of the supplier of the safety data sheet

Company name: DIY COMPOSITES LTD
Unit B3 Roundhouse Close
Fengate
Peterborough
PE1 5TA
United Kingdom

Tel: +44 (0) 1733 512 232 (office hours only)

Email: info@diycomposites.co.uk

1.4. Emergency telephone number

Emergency tel: +44 (0) 1733 512 232

Emergency Action: In the event of a medical enquiry involving this product, please contact your doctor or local hospital accident and emergency department.

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Aquatic Chronic 2: H411; Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317

Most important adverse effects: Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.
Toxic to aquatic life with long lasting effects.

2.2. Label elements

Label elements:

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.

Hazard pictograms: GHS07: Exclamation mark

GHS09: Environmental



Signal words: Warning

Precautionary statements: P261: Avoid breathing dust/fumes/gas/mist/vapours/spray.

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

P302+P352: IF ON SKIN: Wash with plenty of water.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P321: Specific treatment (see instructions on this label)

P362+P364: Take off contaminated clothing and wash it before reuse.

2.3. Other hazards

Section 3: Composition/information on ingredients

3.2. Mixtures

PBT: This product is not identified as a PBT/vPvB substance.

Hazardous ingredients:

BIS [4-(2,3-EPOXYPROPOXY) PHENYL] PROPANE - REACH registered number(s): 01-2119456619-26

EINECS	CAS	PBT / WEL	CLP Classification	Percent
216-823-5	1675-54-3	-	Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317; Aquatic Chronic 2: H411	>50%

1,3-PROPANEDIOL, 2,2-BIS(HYDROXYMETHYL)-, POLYMER WITH 2-(CHLOROMETHYL)OXRIANE

Polymer	30973-88-7	-	Skin Irrit. 2: H315; Eye Irrit. 2: H319; Skin Sens. 1: H317	1-25%
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1,4-BIS(2,3-EPOXYPROPOXY) BUTANE - REACH registered number(s): 01-2119494060-45

219-371-7	2425-79-8	-	Acute Tox. 4: H332; Acute Tox. 4: H312; Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317	1-25%
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PROPYLENE CARBONATE

203-572-1	108-32-7	-	Eye Irrit. 2: H319	1-25%
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Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Wash out mouth with water. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

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

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

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

Section 5: Fire-fighting measures

5.1. Extinguishing media

Immediate / special treatment: Eye bathing equipment should be available on the premises.

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed. The floor of the storage room must be impermeable to prevent the escape of liquids.

Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

Section 8: Exposure controls/personal protection

8.1. Control parameters

Specific end use(s): No data available.

Workplace exposure limits: No data available.

DNEL/PNEC Values

Hazardous ingredients:

BIS [4-(2,3-EPOXYPROPOXY) PHENYL] PROPANE

Type	Exposure	Value	Population	Effect
DNEL	Dermal	8.33 mg/kg/day	Workers	Systemic
DNEL	Inhalation	12.25 mg/kg/day	Workers	Systemic
DNEL	Dermal	3.571 mg/kg/day	Consumers	Systemic
DNEL	Oral	0.75 mg/kg/day	Consumers	Systemic
PNEC	Fresh water	0.006 mg/l	-	-
PNEC	Marine water	0.0006 mg/l	-	-
PNEC	Microorganisms in sewage treatment	10 mg/l	-	-
PNEC	Fresh water sediments	0.996 mg/kg	-	-
PNEC	Marine sediments	0.0996 mg/kg	-	-
PNEC	Soil (agricultural)	0.196 mg/kg/day	-	-

1,4-BIS(2,3-EPOXYPROPOXY) BUTANE

Type	Exposure	Value	Population	Effect
DNEL	Oral (repeated dose)	0.56 mg/kg bw/day	General Population	Systemic
DNEL	Dermal (repeated dose)	5.56 mg/kg bw/day	General Population	Systemic
DNEL	Dermal (repeated dose)	9.26 mg/kg bw/day	Workers	Systemic
DNEL	Inhalation (repeated dose)	0.48 mg/m ³	General Population	Systemic
DNEL	Inhalation (repeated dose)	1.63 mg/m ³	Workers	Systemic
PNEC	Fresh water	0.024 mg/l	-	-
PNEC	Marine water	0.0024 mg/l	-	-
PNEC	Fresh water sediments	0.084 mg/l	-	-
PNEC	Marine sediments	0.0084 mg/l	-	-
PNEC	Microorganisms in sewage treatment	100 mg/l	-	-
PNEC	Soil (agricultural)	0.0027 mg/kg doil dw	-	-

PROPYLENE CARBONATE

Type	Exposure	Value	Population	Effect
DNEL	Inhalation	70.53 mg/m ³	Workers	Systemic
DNEL	Inhalation	20 mg/m ³	Workers	Local
DNEL	Dermal	20 mg/kg bw/day	Workers	Systemic
DNEL	Inhalation	17.4 mg/m ³	Consumers	Systemic
DNEL	Inhalation	10 mg/m ³	Consumers	Local
DNEL	Dermal	10 mg/kg bw/day	Consumers	Systemic



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COMPOSITES

PNEC	Fresh water	0.9 mg/l	-	-
PNEC	Marine water	0.09 mg/l	-	-
PNEC	Microorganisms in sewage treatment	7400 mg/l	-	-
PNEC	Soil (agricultural)	0.81 mg/kg d.w.	-	-

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area. The floor of the storage room must be impermeable to prevent the escape of liquids.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.

Hand protection: Protective gloves.

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Protective clothing.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Pale yellow

Odour: Characteristic odour

Evaporation rate: No data available.

Oxidising: No data available. **Solubility**

in water: No data available. **Viscosity:**

1100 mPas (25°C)

Boiling point/range°C: No data available.

Melting point/range°C: No data available.

Flammability limits %: lower: No data available.

upper: No data available.

Flash point°C: No data available.

Part.coeff. n-octanol/water: No data available.

Autoflammability°C: No data available.

Vapour pressure: No data available.

Relative density: 1.16 - 1.21

pH: No data available.

VOC g/l: No data available.

9.2. Other information

Section 10: Stability and reactivity

10.1. Reactivity

Other information: No data available.

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.
Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Heat.

10.5. Incompatible materials

10.6. Hazardous decomposition products

Materials to avoid: Strong oxidising agents. Strong acids.

Haz. decomp. products: In combustion emits toxic fumes.

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

BIS [4-(2,3-EPOXYPROPOXY) PHENYL] PROPANE

DERMAL	RBT	LD50	23000	mg/kg
IPR	RAT	LD50	2200	mg/kg
ORL	MUS	LD50	15600	mg/kg
ORL	RAT	LD50	11300	µl/kg

1,4-BIS(2,3-EPOXYPROPOXY) BUTANE

DERMAL	RBT	LD50	> 2150	mg/kg
ORL	RAT	LD50	1163	mg/kg

PROPYLENE CARBONATE

DERMAL	RBT	LD50	>2000	mg/kg
ORL	RAT	LD50	33520	µl/kg

Relevant hazards for product:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated
Respiratory/skin sensitisation	DRM	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Section 12: Ecological information

12.1. Toxicity

Hazardous ingredients:

BIS [4-(2,3-EPOXYPROPOXY) PHENYL] PROPANE

Daphnia magna	48H EC50	1.8	mg/l
GREEN ALGA (Selenastrum capricornutum)	72H ErC50	11	mg/l
RAINBOW TROUT (Oncorhynchus mykiss)	96H LC50	2	mg/l

1,4-BIS(2,3-EPOXYPROPOXY) BUTANE

Daphnia magna	24H EC50	75	mg/l
FISH	96H LC50	19.8	mg/l

PROPYLENE CARBONATE

Daphnia magna	48H EC50	> 1000	mg/l
FISH (Cyprinus carpio)	96H LC0	> 1000	mg/l
GREEN ALGA (Selenastrum capricornutum)	72H EC50	> 900	mg/l

12.2. Persistence and degradability

Persistence and degradability: Not biodegradable.

12.3. Bioaccumulative potential

12.4. Mobility in soil

Bioaccumulative potential: Bioaccumulation potential.

Mobility: Readily absorbed into soil.

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

PBT identification: This product is not identified as a PBT/vPvB substance.

Other adverse effects: Toxic to aquatic organisms. Toxic to soil organisms.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

Disposal of packaging: Arrange for collection by specialised disposal company.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: UN3082

14.2. UN proper shipping name

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Epoxy Resin)

14.3. Transport hazard class(es)

14.4. Packing group

Transport class: 9

Packing group: III

14.5. Environmental hazards

14.6. Special precautions for user

Environmentally hazardous: Yes

Marine pollutant: Yes

Special precautions: No special precautions.

Tunnel code: E

Transport category: 3

Section 15: Regulatory information

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

15.2. Chemical Safety Assessment

Specific regulations: Not applicable.

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: H312: Harmful in contact with skin.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H332: Harmful if inhaled.

H411: Toxic to aquatic life with long lasting effects.

Legal disclaimer:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

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ALCHEMIX EP 504

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