

MATERIAL: TECHSIL EP21480 BLACK RESIN

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1	Product Name:	TECHSIL EP21480 BLACK RESIN
1.2	Product Use:	
1.3	Supplier:	Techsil Ltd 34 Bidavon Industrial Estate Waterloo Road Bidford on Avon Warwickshire B50 4JN Tel: +44(0)1789 773232 Fax: +44(0)1789 774239 Email: sales@techsil.co.uk
1.4	Emergency Telephone:	+44(0)7971 228794

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture:

Classification under CLP: Aquatic Chronic 3: H412; 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. Harmful to aquatic life with long lasting effects.

2.2 Label Elements:

Hazard statements:

H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.
H412: Harmful to aquatic life with long lasting effects.

Signal words:

Warning

Hazard pictograms: GHS07: Exclamation mark



Precautionary statements:

P261: Avoid breathing dust/fumes/gas/mist/vapours/spray.
P264: Wash hands thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye protection.
P302+352: IF ON SKIN: Wash with plenty of water/.
P305+351+338: 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).

Contact Details

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QF21 Rev 2 (June 2016)

Other Hazards:

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

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances:

3.2 Mixtures:

Hazardous ingredients:

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

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	10 – 30%

BISPHENOL A F EPOXY RESIN

EINECS	CAS	PBT/WEL	CLP Classification	Percent
-	28064-14-4	-	-	1 – 10%

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

EINECS	CAS	PBT/WEL	CLP Classification	Percent
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 – 10%

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.

Contact Details

4.3 Indication of any Immediate Medical Attention and Special Treatment Needed:

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

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing Media:

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 Firefighters:

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 and 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.

7.3 Specific End Use(s):

Specific end use(s): No data available.

Contact Details

SECTION 8: HANDLING AND STORAGE

8.1 Control Parameters:

Workplace exposure limits: No data available.

DNEL / PNEC No data available.

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: Black

Odour: Characteristic odour

Evaporation rate: Negligible

Oxidising: Non-oxidising (by EC criteria)

Solubility in water: Not miscible

Also soluble in: Most organic solvents.

Viscosity: Viscous

Boiling point/range°C: >35

Flash point°C: >150

Relative density: 1.82

9.2 Other Information:

Other information: No data available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

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.

Contact Details

10.5 Incompatible Materials:

Materials to avoid: Strong oxidising agents. Strong acids.

10.6 Hazardous Decomposition Products:

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

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

BISPHENOL A F EPOXY RESIN

ORL	RAT	LD50	>2000	mg/kg
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1,4-BIS(2,3-EPOXYPROPOXY) BUTANE

ORL	MUS	LD50	1100	µl/kg
ORL	RAT	LD50	1134	mg/kg

Relevant hazards for substance:

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:

Ecotoxicity values: No data available.

12.2 Persistence and Degradability:

Persistence and degradability: Not biodegradable.

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12.3 Bioaccumulative Potential:

Bioaccumulative potential: Bioaccumulation potential.

12.4 Mobility in Soil:

Mobility: Readily absorbed into soil.

12.5 Results of PBT and vPvB Assessment:

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

12.6 Other Adverse Effects:

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.

Waste code number: 08-04-09

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

SECTION 14: TRANSPORT INFORMATION

Transport class: This product does not require a classification for transport.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, Health & Environmental Regulations/Legislation Specific for the Substance or Mixture:

15.2 Chemical Safety Assessment:

Contact Details

SECTION 16: OTHER INFORMATION

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

* 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.

H412: Harmful to aquatic life with long lasting effects.

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 other process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy themselves as to the suitability of such information for their particular use.

Contact Details

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QF21 Rev 2 (June 2016)

MATERIAL: TECHSIL EP21480 BLACK HARDENER

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Product Name: TECHSIL EP21480 BLACK HARDENER

1.2 Product Use:

1.3 Supplier: Techsil Ltd
34 Bidavon Industrial Estate
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Email: sales@techsil.co.uk

1.4 Emergency Telephone: +44(0)7971 228794

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture:

Classification under CLP: Acute Tox. 4: H302+312+332; Repr. 2: H361fd; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Skin Corr. 1B: H314; Skin Sens. 1: H317

Most important adverse effects: Harmful if swallowed, in contact with skin or if inhaled. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Suspected of damaging fertility. Suspected of damaging the unborn child. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

Classification under CLP:

Most important adverse effects.

2.2 Label Elements:

Hazard statements:

H302+312+332: Harmful if swallowed, in contact with skin or if inhaled.
H314: Causes severe skin burns and eye damage.
H317: May cause an allergic skin reaction.
H361fd: Suspected of damaging fertility. Suspected of damaging the unborn child.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.

Signal words: Danger

Hazard pictograms:

GHS05: Corrosion
GHS07: Exclamation mark
GHS08: Health hazard
GHS09: Environmental



Contact Details

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Precautionary statements:

P260: Do not breathe fumes.
 P280: Wear protective gloves/protective clothing/eye protection.
 P304+340: IF INHALED: Remove person to fresh air and keep 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.
 P308+313: IF exposed or concerned: Get medical advice/attention.

2.3 Other Hazards:

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

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances:

3.2 Mixtures:

Hazardous ingredients:

4-NONYLPHENOL, BRANCHED

EINECS	CAS	PBT/WEL	CLP Classification	Percent
284-325-5	84852-15-3	-	Repr. 2: H361fd; Acute Tox. 4: H302; Skin Corr. 1B: H314; Aquatic Chronic 1: H410; Aquatic Acute 1: H400	30 – 50%

3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE

220-666-8	2855-13-2	-	Acute Tox. 4: H312; Acute Tox. 4: H302; Skin Corr. 1B: H314; Skin Sens. 1: H317; Aquatic Chronic 3: H412	30 – 50%
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POLYOXYPROPYLENE TRIAMINE

500-105-6	39423-51-3	-	-	10 – 30%
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M-XYLYLENE DIAMINE

216-032-5	1477-55-0	-	-	10 – 30%
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Contact Details

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. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor.

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

Ingestion: Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. 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. Nausea and stomach pain may occur. There may be vomiting.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

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

4.3 Indication of any Immediate Medical Attention and Special Treatment Needed:

Immediate / special treatment: Not applicable.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing Media:

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 Firefighters:

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.

Contact Details

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 and 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.

7.3 Specific End Use(s):

Specific end use(s): No data available.

SECTION 8: HANDLING AND STORAGE

8.1 Control Parameters:

Workplace exposure limits: No data available.

DNEL / PNEC No data available.

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: Impermeable gloves.

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

Skin protection: Impermeable protective clothing.

Contact Details

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties:

State: Liquid
Colour: Colourless
Odour: Characteristic odour
Evaporation rate: Negligible
Oxidising: Non-oxidising (by EC criteria)
Solubility in water: Not miscible
Viscosity: Non-viscous
Boiling point/range °C: >200
Flash point °C: >120
Relative density: 0.96

9.2 Other Information:

Other information: No data available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

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:

Materials to avoid: Strong oxidising agents. Strong acids.

10.6 Hazardous Decomposition Products:

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

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:

4-NONYLPHENOL, BRANCHED

ORL	RAT	LD50	1300	mg/kg
SKN	RBT	LDLO	3160	mg/kg

3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE

ORAL	RAT	LD50	1030	mg/kg
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POLYOXYPROPYLENE TRIAMINE

DERMAL	RBT	LD50	562	mg/kg
ORAL	RAT	LD50	220	mg/kg

M-XYLYLENE DIAMINE

DERMAL	RBT	LD50	2000	mg/kg
GASES	RAT	1H LC50	700	ppmV
ORAL	RAT	LD50	930	mg/kg

Relevant hazards for substance:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	INH DRM ING	Hazardous: calculated
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated
Respiratory/skin sensitisation	DRM	Hazardous: calculated
Reproductive toxicity	-	Hazardous: calculated

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. Nausea and stomach pain may occur. There may be vomiting.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

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

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

Hazardous ingredients:

3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE

Daphnia magna	48H EC50	17.4	mg/l
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M-XYLYLENE DIAMINE

Daphnia magna	48H EC50	16	mg/l
RAINBOW TROUT (Oncorhynchus mykiss)	96H LC50	100	mg/l

12.2 Persistence and Degradability:

Persistence and degradability: Not biodegradable.

12.3 Bioaccumulative Potential:

Bioaccumulative potential: Bioaccumulation potential.

12.4 Mobility in Soil:

Mobility: Readily absorbed into soil.

12.5 Results of PBT and vPvB Assessment:

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

Contact Details

12.6 Other Adverse Effects:

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.

Waste code number: 08-04-09

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: UN2735

14.2 UN Proper Shipping Name:

Shipping name: AMINES, LIQUID, CORROSIVE, N.O.S.
(3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE;)

14.3 Transport Hazard Class(es):

Transport class: 8 (9)

14.4 Packing Group:

Packing group: III

14.5 Environmental Hazards:

Environmentally hazardous: Yes

Marine pollutant: No

14.6 Special Precautions for User:

Special precautions: No special precautions.

Tunnel code: E

Transport category: 3

14.7 Transport in Bulk According to Annex II of MARPOL73/78 and the IBC Code:

SECTION 15: REGULATORY INFORMATION

15.1 Safety, Health & Environmental Regulations/Legislation Specific for the Substance or Mixture:

15.2 Chemical Safety Assessment:

Contact Details

SECTION 16: OTHER INFORMATION

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

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

Phrases used in s.2 and s.3:

H302: Harmful if swallowed.

H302+312+332: Harmful if swallowed, in contact with skin or if inhaled.

H312: Harmful in contact with skin.

H314: Causes severe skin burns and eye damage.

H317: May cause an allergic skin reaction.

H361fd: Suspected of damaging fertility. Suspected of damaging the unborn child.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

H412: Harmful to aquatic life with long lasting effects.

DISCLAIMER

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