


**MATERIAL: TECHSIL® TOUGHENED CYAN 80**

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

- 1.1 Product Name:** TECHSIL® TOUGHENED CYAN 80  
**1.2 Product Use:** Adhesives, Sealants  
**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](mailto: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 CHIP:** Xi: R36/37/38  
**Classification under CLP:** STOT SE 3: H335; Eye Irrit. 2: H319; Skin Irrit. 2: H315; - : EUH202  
**Most important adverse effects:** Irritating to eyes, respiratory system and skin.
- 2.2 Label Elements:**  
**Label elements under CLP:**  
**Hazard statements:** H315: Causes skin irritation.  
H319: Causes serious eye irritation.  
H335: May cause respiratory irritation.  
EUH202: Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.
- Signal words:** Warning  
**Hazard pictograms:** GHS07: Exclamation mark
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- Precautionary statements:** P261: Avoid breathing dust/fumes/gas/mist/vapours/spray.  
P271: Use only outdoors or in a well-ventilated area.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position 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.  
P312: Call a POISON CENTER or doctor if you feel unwell.

**Contact Details**

**Label elements under CHIP:**

**Hazard symbols:**

Irritant.



**Risk phrases:**

R36/37/38: Irritating to eyes, respiratory system and skin.

**Safety phrases:**

S2: Keep out of the reach of children.

S46: If swallowed, seek medical advice immediately and show this container or label.

**Precautionary phrases:**

Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.

**2.3 Other Hazards:**

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

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1 Substances:**

ETHYL-2-CYANOACRYLATE

EINECS	CAS	CHIP Classification	CLP Classification	Percent
230-391-5	7085-85-0	Xi: R36/37/38	Eye Irrit. 2: H319; STOT SE 3: H335; Skin Irrit. 2: H315	70-90%

**3.2 Mixtures:**

N/A

**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:**

Eye bathing equipment should be available on the premises.

**SECTION 5: FIREFIGHTING MEASURES**

**5.1 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:**

In combustion emits toxic fumes.

**5.3 Advice for Fire-fighters:**

Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

**Contact Details**

Techsil Ltd

Unit 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 Web: www.techsil.co.uk

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**6.1 Personal Precautions, Protective Equipment and Emergency Procedures:**

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:**

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

**6.3 Methods and Material for Containment and Cleaning-Up:**

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:**

Refer to section 8 of SDS.

**SECTION 7: HANDLING AND STORAGE**

**7.1 Precautions for Safe Handling:**

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:**

Store in cool, well ventilated area. Keep container tightly closed.

**7.3 Specific End Use(s):**

No data available.

**SECTION 8: HANDLING AND STORAGE**

**8.1 Control Parameters:**

Hazardous ingredients:  
ETHYL-2-CYANOACRYLATE

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	-	1.5 mg/m <sup>3</sup>	-	-

**8.2 Exposure Controls:**

**Engineering measures:** Ensure there is sufficient ventilation of the area.  
**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:** No data available.  
**Oxidising:** No data available.  
**Solubility in water:** Reacts with water.  
**Also soluble in:** Acetone.  
**Viscosity:** Viscous  
**Kinematic viscosity:** ~700  
**Viscosity test method:** Cone and Plate @ 25°C (CPs)  
**Boiling point/range°C:** 214  
**Flammability limits %: lower:** No data available. **Melting point/range°C:** -31  
**Flash point°C:** 85 **upper:** No data available.  
**Autoflammability°C:** 450 **Part.coeff. n-octanol/water:** No data available.  
**Relative density:** 1.05 **Vapour pressure:** 21 Pa  
**VOC g/l:** <20

**9.2 Other Information:**

No data available.

**Contact Details**

**SECTION 10: STABILITY AND REACTIVITY**

**10.1 Reactivity:**

Stable under recommended transport or storage conditions.

**10.2 Chemical Stability:**

Stable under normal conditions.

**10.3 Possibility of 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:**

Heat.

**10.5 Incompatible Materials:**

Strong oxidising agents. Strong acids.

**10.6 Hazardous Decomposition Products:**

In combustion emits toxic fumes.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1 Information on Toxicological Effects:**

**Hazardous ingredients:**

ETHYL-2-CYANOACRYLATE

ORL	RAT	LD50	>5	ml/kg
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**Relevant effects for mixture:**

Effect	Route	Basis
Irritation	OPT INH DRM	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

**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:**

No data available.

**12.2 Persistence and Degradability:**

Biodegradable.

**12.3 Bioaccumulative Potential:**

No bioaccumulation potential.

**12.4 Mobility in Soil:**

Readily absorbed into soil.

**12.5 Results of PBT and vPvB Assessment:**

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

**12.6 Other Adverse Effects:**

Negligible ecotoxicity.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**13.1 Waste Treatment Methods:**

**Disposal operations:** Transfer to a suitable container and 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.

**Contact Details**

**SECTION 14: TRANSPORT INFORMATION**

- 14.1 UN Number:**  
UN3334
- 14.2 UN Proper Shipping Name:**  
AVIATION REGULATED LIQUID, N.O.S.  
(ETHYL-2-CYANOACRYLATE)
- 14.3 Transport Hazard Class(es):**  
9
- 14.4 Packing Group:**  
III
- 14.5 Environmental Hazards:**  
Environmentally hazardous: No Marine pollutant: No
- 14.6 Special Precautions for User:**  
No special precautions.
- 14.7 Transport in Bulk According to Annex II of MARPOL73/78 and the IBC Code:**  
N/A

**SECTION 15: REGULATORY INFORMATION**

- 15.1 Safety, Health & Environmental Regulations/Legislation Specific for the Substance or Mixture:**  
N/A
- 15.2 Chemical Safety Assessment:**  
N/A

**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:** EUH202: Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.  
H315: Causes skin irritation.  
H319: Causes serious eye irritation.  
H335: May cause respiratory irritation.  
R36/37/38: Irritating to eyes, respiratory system and skin.

**Legend to abbreviations:** PNEC = predicted no effect level  
DNEL = derived no effect level  
LD50 = median lethal dose  
LC50 = median lethal concentration  
EC50 = median effective concentration  
IC50 = median inhibitory concentration  
dw = dry weight  
bw = body weight  
cc = closed cup  
oc = open cup  
MUS = mouse  
GPG = guinea pig  
RBT = rabbit  
HAM = hamster  
HMN = human  
MAM = mammal  
PGN = pigeon  
IVN = intravenous  
SCU = subcutaneous  
SKN = skin  
DRM = dermal  
OCC = ocular/corneal

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PCP = physico-chemical properties

**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.

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