TOPCOAT BR NON-SLIP CLEAR

Product Name:	**Topcoat BR Non-Slip Clear** **1570457 Rev. 0**
Revision Date:	12-Aug-2021 **According to Regulation (EC) No. 1907/2006**

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product Identifier

Product Name: Topcoat BR Non-Slip Clear

Chemical Name: **Unsaturated Polyester Resin**

Pure Substance/Mixture: Mixture

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

Resin solution to be used as part of a composite moulding

For industrial or professional use only

1.3. Details of the supplier of the safety data sheet

Tricel Composites (GB) Limited

Unit A, Foxway,
Off Atkinson Street,
Leeds, West Yorkshire,

Tricel Composites (NI) Limited

Unit 4, Milltown Ind. Estate, Greenan
Road. Warrenpoint, Newry
Co. Down,

LS10 1PS.
Tel: +44 (0)113 270 3133

BT34 3FN.
Tel: +44 (0)284 175 3738

1.4. Emergency Telephone Number

Emergency medical information: 8am-10pm (seven days) contact National Poisons Information Centre, Beaumont Hospital, Dublin 9 DOV2NO, Ireland.
Telephone Number: +353 (0)1 809 2166

Leeds:	**Newry:**
Tel: +44 (0)113 270 3133	Tel: +44 (0)284 175 3738

1.4.1. Poison Information Centre Telephone Number

European emergency phone number: 112
UK: National Poisons Emergency Number : 0344 892 0111
Ireland: National Poisons Information Centre (NPIC)Telephone Healthcare Professionals : +353 (01) 809 2566. (24 hour service)Telephone Members of Public: +353 (01) 809 2166. (8.00 a.m. to 10.00 p.m. 7 days a week)

2. Hazards Identification

2.1. Classification of the substance or mixture

Classification of the substance or mixture - GHS/CLP (n° 1272/2008)

Flam. Liq. 3	H226 Flammable liquid and vapour.
Skin Irrit. 2	H315 Causes skin irritation.
Eye Irrit. 2	H319 Causes serious eye irritation.
Repr. 2	H361d Suspected of damaging the unborn child.
STOT SE 3	H335 May cause respiratory irritation.

STOT RE 1	H372 Causes damage to the hearing organs through prolonged or repeated exposure.
Aquatic Chronic 3	H412 Harmful to aquatic life with long lasting effects.

2.2. Label elements

Signal Word: Danger

Hazard-determining components of labelling: Styrene

2.2.1. Hazard Statements

Hazard statements

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H361d Suspected of damaging the unborn child.

H335 May cause respiratory irritation.

H372 Causes damage to the hearing organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

2.2.2. Precautionary Statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P260 Do not breathe vapours/spray.

P264 Wash thoroughly after handling.

P273 Avoid release to the environment.

P280	Wear protective gloves, protective clothing, eye protection/face protection.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P337+P313	If eye irritation persists: Get medical advice/attention.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container in accordance with local/regional/national/international regulation.

Additional information:

EUH208	Contains cobalt(II) 2-ethylhexanoate. May produce an allergic reaction.

2.3. Other Hazards

Results of PBT and vPvB assessment

This mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3. Composition/Information on Ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Description: Mixture of substances listed below with non-hazardous additions.

Dangerous components:		
CAS: 100-42-5 EINECS: 202-851-5 Index number: 601-026-00-0 Reg. No.: 01-2119457861-32	styrene Flam. Liq. 3, H226; Repr. 2, H361d; STOT RE 1, H372; Asp. Tox. Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT Aquatic Chronic 3, H412	25 - 50%
	barium 2-ethylhexanoate	

CAS: 2457-01-4 EINECS: 219-535-8	Repr. 2, H361d; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H332	≤ 2.5%
CAS: 136-52-7 EINECS: 205-250-6 Reg. No.: 01-2119524678-29	cobalt(II) 2-ethylhexanoate Repr. 1A, H360Fd; Aquatic Acute 1, H400; Eye Irrit. 2, H319; H317; Aquatic Chronic 3, H412	≤ 2.5%

Additional information For the wording of the listed hazard phrases refer to section 16.

4. First Aid Measures

4.1. Description of First Aid Measures

General information:

In case of accident or if you feel unwell seek medical advice immediately (show label or SDS where possible).

After inhalation:

Remove person to fresh air and keep comfortable for breathing. Seek medical treatment in case of complaints.

After skin contact:

Remove contaminated clothes immediately, wash the affected skin thoroughly with plenty of water. In case of irritation seek medical treatment.
Wash contaminated clothes before reuse.

After eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, get medical advice/attention.

After swallowing:

Rinse out mouth with water. Do NOT induce vomiting. Seek medical advice and show this container or label.

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

No further relevant information available.

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

Symptomatic treatment.

5. Firefighting Measures

5.1. Extinguishing media

Suitable extinguishing agents: CO2, dry chemical powder, foam or water spray

For safety reasons unsuitable extinguishing agents: Water with full jet

5.2. Special Hazards arising from substance or mixture

During heating or in case of fire poisonous gases are produced.

Formation of flammable or explosive air/vapour mixtures are possible.

5.3. Advice for Firefighters

Protective equipment:

In the case of fire wear self-contained respiratory equipment and protective suit. Do not inhale explosion gases or combustion gases.

Additional information:

Evacuate area and remove all ignition sources.

Cool endangered receptacles with water spray. Contain runoff to prevent entry into water or drainage systems. Dispose of fire debris and contaminated fire fighting water according to the regulations.

6. Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Please notice instructions for person-related safety precautions, wear protective equipment (see 8.) Keep people at a distance and stay on the windward side.
Ensure adequate ventilation.
Turn leaking containers leak-side up to prevent the escape of liquid. Keep away from ignition sources.

6.2. Environmental Precautions

Do not allow to enter sewers, surface or ground water. Contain the spilled material by bunding.
Advise water authority in case of seepage into water course or sewage system.

6.3. Methods and Material for Containment and Cleaning Up

Absorb with non-combustible absorbent material, (eg sand, diatomite, vermiculite). Place into suitable and labelled containers for disposal.
Clean contaminated floors and objects thoroughly, observing environmental regulations.

6.4. Reference to other sections

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7. Handling and Storage

7.1. Precautions for safe handling

Prevent formation of aerosols.
Avoid any contact with skin, eyes and clothes. Use only outdoors or in a well-ventilated area.
Do not eat, drink or smoke when using this product. Wash hands before break and at the end of work.

Information about fire - and explosion protection:
Keep away from heat, sparks, open flames and hot surfaces. No smoking. Protect against electrostatic charges.
Use explosion-proof apparatus / fittings and spark-proof tools. Ground and bond container and receiving equipment.

7.2. Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles:
Store in tightly closed containers in a cool and well ventilated place. Protect from heat and direct sun.

Information about storage in one common storage facility:
Do not store food, beverages and animal feeding stuffs in the storage area. Store away from strong acids or strong oxidising agents.

Further information about storage conditions:
Keep container tightly sealed.

Store in a place which is accessible only to authorised persons.

7.3. Specific end use(s)

Use only according to instructions.

8. Exposure Controls/Personal Protection

8.1. Control Parameters

Ingredients with limit values that require monitoring at the workplace:	
CAS: 100-42-5 styrene	
WEL	Short-term value: 1080 mg/m³, 250 ppm, Long-term value: 430 mg/m³, 100 ppm
CAS: 136-52-7 cobalt(II) 2-ethylhexanoate	
WEL	Long-term value: 0.1 mg/m³; as Co; Carc, Sen

Regulatory information WEL: EH40/2020

DNELs:

styrene (CAS 100-42-5):

workers, DNEL, acute effects systemic, inhalation 289 mg/m³

workers, DNEL, acute effects local, inhalation 306 mg/m³

workers, DNEL, chronic effects systemic, inhalation 85 mg/m³

workers, DNEL, chronic effects systemic, dermal 406 mg/kg bw/day

consumers, DNEL, acute effects systemic, inhalation 174.25 mg/m³

consumers, DNEL, acute effects local, inhalation 182.75 mg/m³

consumers, DNEL, chronic effects systemic, dermal 343 mg/kg bw/day

consumers, DNEL, chronic effects systemic, oral 2.1 mg/kg bw/day

consumers, DNEL, chronic effects systemic, inhalation 10.2 mg/m³

PNECs:

styrene (CAS 100-42-5):

freshwater 0.028 mg/l, marine water 0.014 mg/l

sediment freshwater 0.614 mg/kg, marine water 0.307 mg/kg

intermittent releases 0.4 mg/l; STP 5 mg/l; soil 0.2 mg/kg

8.2. Exposure Controls

Appropriate engineering controls

Provide sufficient ventilation, particularly in closed areas.

Individual protection measures, such as personal protective equipment

General protective and hygienic measures:

Avoid unnecessary contact with the product. Do not eat, drink or smoke at workplace.

Remove contaminated clothing immediately and wash carefully before reuse.

Do not breathe gas/vapours/spray.

Ensure that washing facilities are available at the work place. Be sure to clean skin thoroughly after work and before breaks.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Hand protection

Chemical resistant gloves

Wash when contaminated. Dispose of when contaminated inside, when perforated or when contamination outside cannot be removed.

Material of gloves:

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. The selection of the suitable gloves does not only

depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.
Penetration time of glove material:
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye/face protection
Tightly sealed goggles (EN 166)
Ensure eye bath is to hand.

Body protection
Protective clothing.

8.3. Environmental exposure controls

Do not allow to enter sewers/ surface or ground water. Inform respective authorities in case of seepage into water course or sewage system.

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical state	Fluid
Form:	Viscous liquid
Colour:	Clear
Odour:	Characteristic
Odour threshold:	No data available
Boiling point or initial boiling point and boiling range:	No data available
Flammability:	No data available.
Lower and upper explosion limit:	No data available.
Flash point:	32 °C
Auto-ignition temperature:	No data available.
pH:	5
Viscosity	
dynamic at 25 °C:	100,000 - 300,000 mPas (Brookfield RV 6, 0.5 rpm)
kinematic:	Not determined.
Solubility	
water:	No data available.
Partition coefficient, n-octanol/water:	No data available.
Vapour pressure:	No data available.
Vapour density:	No data available.
Density:	No data available.

9.2. Other Information

Other information	
Explosive properties:	Not explosive.
Oxidising properties:	No data available.
Information with regard to physical hazard classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Flammable liquid and vapour.

Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

10. Stability and Reactivity

10.1. Reactivity

Stable under recommended transport or storage conditions.

10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use.

10.3. Possibility of hazardous reactions

Vapours may form ignitable mixture with air.

10.4. Conditions to avoid

Keep away from heat, sparks, open flames and hot surfaces.

10.5. Incompatible materials

Strong acids, strong oxidising agents

10.6. Hazardous decomposition Products

Decomposes at high temperatures may form toxic gases.

11. Toxicological Information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

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

LD/LC50 values relevant for classification:		
CAS: 100-42-5 styrene		
oral	LD50	> 2,000 mg/kg (rat)
dermal	LD50	> 2,000 mg/kg (rat) (OECD 402)
inhalative	LC50/4h	11.8 mg/l (rat)

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

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

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

Suspected of damaging the unborn child.

STOT-single exposure

May cause respiratory irritation.

STOT-repeated exposure

Causes damage to the hearing organs through prolonged or repeated exposure.

Aspiration hazard

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

12. Ecological Information

12.1. Toxicity

Aquatic toxicity:

For the product there are no ecotoxicological data available.

CAS: 100-42-5 styrene	
LC50/96h	4.02 mg/l (flathead minnow, Pimephales promelas)
EC50/48h	4.7 mg/l (water flea, Daphnia magna)
ErC50/72h	4.9 mg/l (alga, Selenastrum capricornutum)
NOEC/21d	1.01 mg/l (water flea, Daphnia magna)

12.2. Persistence and degradability

Styrene: easily biodegradable

12.3. Bioaccumulative potential

Styrene: BCF <100, octanol-water partition coefficient log Pow: 2.96 (25 °C)

12.4. Mobility in soil

No further relevant information available.

12.5. Results of PBT and vPvB

Not applicable.

12.6. Endocrine disrupting properties

For information on endocrine disrupting properties see section 11.

12.7. Other Adverse Effects

No further relevant information available.

13. Disposal Considerations

13.1. Waste Treatment Methods

Recommendation

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

Uncleaned packaging Recommendation:

Disposal must be made according to official regulations.

Not completely emptied packaging is to be disposed of in the same manner as the product.

14. Transport Information

14.1 UN number or ID number ADR, IMDG, IATA	UN1866
14.2 UN proper shipping name ADR	
IMDG, IATA	1866 RESIN SOLUTION RESIN SOLUTION
14.3 Transport hazard class(es)	
ADR	
Class	3 (F1) Flammable liquids.
Label	3
IMDG, IATA	
Class	3 Flammable liquids.
Label	3
14.4 Packing group ADR, IMDG, IATA	

	I I I
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user Hazard identification number (Kemler code):	Warning: Flammable liquids. 30
14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
UN "Model Regulation":	UN 1866 RESIN SOLUTION, 3, III

15. Regulatory Information

15.1. Safety, Health And Environmental Regulations / Legislation Specific For The Substance Or Mixture

Seveso category P5c FLAMMABLE LIQUIDS

National regulations: -

15.2. Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

16. Other Information

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.

Relevant phrases

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H360Fd May damage fertility. Suspected of damaging the unborn child. H361d Suspected of damaging the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

Further information:

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008: Calculation method

Abbreviations and acronyms:

CLP: REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

CAS: Chemical Abstracts Service (division of the American Chemical Society)

EINECS: European Inventory of Existing Commercial Chemical Substances

WEL: workplace exposure limit

DNEL: Derived No-Effect Level

PNEC: Predicted No-Effect Concentration

EC50: maximal effective concentration, 50%

ErC50: median effective concentration for growth rate (algae)

LC50: lethal concentration, 50%

LD50: lethal dose, 50%

NOEL/NOEC: No Observed Effect Concentration

OECD: Organisation for Economic Co-operation and Development

BCF: bioconcentration factor

PBT: persistent, bioaccumulative and toxic properties

vPvB: very persistent and very bioaccumulative properties

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IATA: International Air Transport Association
IMDG: International Maritime Code for Dangerous Goods
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1A: Skin sensitisation – Category 1A
Repr. 1A: Reproductive toxicity – Category 1A
Repr. 2: Reproductive toxicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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 process, unless specified in the text.

End of Safety Data Sheet