

EVO-STIK TENSOL 70 PART B
Supersedes Date: 03-Sep-2018

Revision Date 23-Nov-2018
Revision Number 1.02

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

1.1. Product Identifier

Product Name EVO-STIK TENSOL 70 PART B

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

Recommended use Adhesives and/or sealants.
Uses advised against None known

1.3. Details of the supplier of the safety data sheet

Company Name

Bostik Limited
Common Rd
ST16 3EH
Stafford UK
Tel: +44 (1785) 27 26 25
Fax: +44 (1785) 25 72 36

E-mail address SDS.box-EU@bostik.com

1.4. Emergency telephone number

United Kingdom +44 (1785) 272650
Ireland +353 (1) 8624900 (Monday- Friday 9am-5pm)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Skin sensitisation	Category 1 - (H317)
Acute aquatic toxicity	Category 1 - (H400)
Chronic aquatic toxicity	Category 3 - (H412)

2.2. Label Elements

Contains: Dibenzoyl peroxide



Signal word
WARNING

Hazard statements

H317 - May cause an allergic skin reaction
H400 - Very toxic to aquatic life
H412 - Harmful to aquatic life with long lasting effects

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Precautionary statements

P101 - If medical advice is needed, have product container or label at hand
P273 - Avoid release to the environment
P280 - Wear protective gloves and eye/face protection
P302 + P352 - IF ON SKIN: Wash with plenty of water and soap
P391 - Collect spillage
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed
P501 - Dispose of contents/ container to an approved waste disposal plant

2.3. Other Hazards

In use may form flammable/explosive vapour-air mixture

PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB

SECTION 3: Composition/information on ingredients

3.1 Substances

3.2 3.2 Mixtures

Chemical Name	EC No.	CAS No.	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	REACH Registration Number
Propanol, oxybis-, dibenzoate	248-258-5	27138-31-4	80 - 100	Aquatic Chronic 3 (H412)		01-2119529241-49-XXXX
Dibenzoyl peroxide	202-327-6	94-36-0	5 - <10	Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Org. Perox. B (H241) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)		01-2119511472-50-XXXX

Full text of H- and EUH-phrases: see section 16

Note: ^ indicates not classified, however, the substance is listed in section 3 as it has an OEL

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice Take a copy of the Safety Data Sheet when going for medical treatment.
Inhalation Remove to fresh air. IF exposed or concerned: Get medical advice/attention.
Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper

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	eyelids. Consult a doctor.
Skin contact	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a doctor.
Ingestion	Clean mouth with water. Do NOT induce vomiting. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person.

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

Symptoms No information available.

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

Note to doctors Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media Full water jet. Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical Thermal decomposition can lead to release of toxic and corrosive gases/vapours.

5.3. Advice for firefighters

Special protective equipment for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Avoid contact with skin, eyes or clothing.

Other information Ventilate the area. Prevent further leakage or spillage if safe to do so.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions Do not flush into surface water or sanitary sewer system. Do not allow to enter into soil/subsoil. See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Advice on safe handling** Ensure adequate ventilation. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.
- General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Take off all contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

- Storage Conditions** Keep container tightly closed in a dry and well-ventilated place. Keep away from food, drink and animal feedingstuffs.

7.3. Specific end use(s)

- Risk Management Methods (RMM)** The information required is contained in this Safety Data Sheet.

- Other information** Observe technical data sheet.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

- Exposure Limits** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

Chemical Name	European Union	Ireland	United Kingdom
Dibenzoyl peroxide 94-36-0	-	TWA: 5 mg/m ³ STEL: 15 mg/m ³	TWA: 5 mg/m ³ STEL: 15 mg/m ³

- Derived No Effect Level (DNEL)** No information available

Derived No Effect Level (DNEL)

Propanol, oxybis-, dibenzoate (27138-31-4)

Type Worker Short term Systemic health effects
Exposure route Dermal
Derived No Effect Level (DNEL) 170 mg/kg bw/d

Type Worker Short term Systemic health effects
Exposure route Inhalation
Derived No Effect Level (DNEL) 35.08 mg/m³

Type Worker Long term Systemic health effects
Exposure route Dermal
Derived No Effect Level (DNEL) 10 mg/kg bw/d

Type Worker Long term Systemic health effects
Exposure route Inhalation
Derived No Effect Level (DNEL) 8.8 mg/m³

Dibenzoyl peroxide (94-36-0)

Type Worker Long term Systemic health effects
Exposure route Inhalation
Derived No Effect Level (DNEL) 39 mg/m³

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Type Worker Long term Systemic health effects
 Exposure route Dermal
 Derived No Effect Level (DNEL) 13 mg/kg bw/d

Derived No Effect Level (DNEL)

Propanol, oxybis-, dibenzoate (27138-31-4)

Type	Consumer Short term Systemic health effects
Exposure route	Dermal
Derived No Effect Level (DNEL)	80 mg/kg bw/d

Type	Consumer Short term Systemic health effects
Exposure route	Inhalation
Derived No Effect Level (DNEL)	8.7 mg/m ³

Type	Consumer Short term Systemic health effects
Exposure route	Oral
Derived No Effect Level (DNEL)	80 mg/kg bw/d

Type	Consumer Long term Systemic health effects
Exposure route	Dermal
Derived No Effect Level (DNEL)	0.22 mg/kg bw/d

Type	Consumer Long term Systemic health effects
Exposure route	Inhalation
Derived No Effect Level (DNEL)	8.69 mg/m ³

Type	Consumer Long term Systemic health effects
Exposure route	Oral
Derived No Effect Level (DNEL)	5 mg/kg bw/d

Dibenzoyl peroxide (94-36-0)

Type	Consumer Long term Systemic health effects
Exposure route	Oral
Derived No Effect Level (DNEL)	2 mg/kg bw/d

Predicted No Effect Concentration (PNEC) No information available.

Predicted No Effect Concentration (PNEC)

Propanol, oxybis-, dibenzoate (27138-31-4)

Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.0037 mg/l
Marine water	0.00037 mg/l
Freshwater - intermittent	0.037 mg/l
Freshwater sediment	1.49 mg/kg
Marine sediment	0.149 mg/kg
Soil	1 mg/kg
Microorganisms in sewage treatment	10 mg/l

Dibenzoyl peroxide (94-36-0)

Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.02 µg/l
Marine water	0.002 µg/l
Freshwater sediment	0.013 mg/kg dry weight
Marine sediment	0.001 mg/kg dry weight
Soil	0.003 mg/kg dry weight
Microorganisms in sewage treatment	0.35 mg/l

8.2. Exposure controls

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Engineering controls Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/face protection Tight sealing safety goggles.
Hand protection Wear protective gloves. Gloves made of plastic or rubber. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves.
Skin and body protection Wear appropriate personal protective clothing to prevent skin contact.

Environmental exposure controls Do not allow into any sewer, on the ground or into any body of water.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State Liquid
Appearance Liquid
Colour Clear, colourless to yellow
Odour Characteristic
Odour Threshold No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No data available	
Melting point / freezing point	No data available	
Boiling point / boiling range	No data available	
Flash Point	> 61 °C	
Evaporation Rate	No data available	
Flammability (solid, gas)	No data available	
Flammability Limit in Air		
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapour Pressure	No data available	
Vapour Density	No data available	
Relative Density	1.12	
Water Solubility	No data available	
Solubility(ies)	No data available	
Partition coefficient	No data available	
Autoignition Temperature	No data available	
Decomposition Temperature	No data available	
Kinematic Viscosity	500	
Dynamic Viscosity	No data available	
Explosive properties	No data available	
Oxidising properties	No data available	

9.2. Other information

Solid content (%) No information available
Softening Point No information available
Molecular Weight No information available
VOC (volatile organic compound) No information available
Density No information available
Bulk Density No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available.

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10.2. Chemical stability

Stability Stable under normal conditions.

Explosion Data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

10.5. Incompatible materials

Incompatible materials None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition products None under normal use conditions. Stable under recommended storage conditions.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on likely routes of exposure

Product information

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

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

Skin contact May cause sensitisation by skin contact.

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

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Numerical measures of toxicity

No information available

Acute Toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 4,089.00

ATEmix (dermal) 2,249.00

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Propanol, oxybis-, dibenzoate 27138-31-4	= 3914 mg/kg (Rat)	> 2000 mg/kg (rat)	
Dibenzoyl peroxide 94-36-0	LD50 > 2000 mg/kg (Rat) OECD 401	LD50 > 2000 mg/kg (Rat) OECD 402	LC0 (4h) =24.3 mg/L (Rat) Dust (OECD Guideline 403)

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Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	Based on available data, the classification criteria are not met.
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	Based on available data, the classification criteria are not met.
STOT - single exposure	Based on available data, the classification criteria are not met.
STOT - repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Very toxic to aquatic life with long lasting effects.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to Micro-organisms	Crustacea	M-Factor
Propanol, oxybis-, dibenzoate 27138-31-4	-	3.7 mg/l (fathead minnow)	-	EL50 (48h) = 19.3 mg/l (Daphnia magna)	-
Dibenzoyl peroxide 94-36-0	ErC50 (72h) = 0.0711 mg/l (Pseudokirchneriella subcapitata) OECD 201	LC50 (96h) = 0.0602 Fish (Oncorhynchus mykiss) Semi static	-	EC50 (48h) = 0.11 mg/L (Daphnia magna static)	-

12.2. Persistence and degradability

Persistence and degradability No information available.

Component Information

Propanol, oxybis-, dibenzoate (27138-31-4)

Method	Exposure time	Value	Results
OECD Test No. 301B: Ready Biodegradability: CO2 Evolution Test (TG 301 B)	28 days	87%	Readily biodegradable

12.3. Bioaccumulative potential

Bioaccumulation No information available.

Chemical Name	Partition coefficient	Bioconcentration factor (BCF)
Propanol, oxybis-, dibenzoate 27138-31-4	3.9	2.4
Dibenzoyl peroxide	3.2	-

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94-36-0		
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12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The components in this formulation do not meet the criteria for classification as PBT or vPvB.

Chemical Name	PBT and vPvB assessment
Propanol, oxybis-, dibenzoate 27138-31-4	The substance is not PBT / vPvB
Dibenzoyl peroxide 94-36-0	The substance is not PBT / vPvB

12.6. Other adverse effects

Other Adverse Effects No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable.

Contaminated packaging Do not reuse empty containers. Handle contaminated packages in the same way as the product itself.

European Waste Catalogue 08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances

Other information Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1 UN Number UN3082
14.2 Proper Shipping Name Environmentally hazardous substances, liquid, n.o.s
14.3 Transport hazard class(es) 9
Labels 9
14.4 Packing Group III
Description UN3082, Environmentally hazardous substances, liquid, n.o.s, 9, III, (E)
14.5 Environmental hazards Yes
14.6 Special Provisions 274, 335, 601, 375
Classification Code M6
Tunnel restriction code (E)
Limited Quantity (LQ) 5 L
ADR Hazard Id (Kemmler Number) 90

IMDG

14.1 UN Number UN3082
14.2 Proper Shipping Name Environmentally hazardous substances, liquid, n.o.s
14.3 Transport hazard class(es) 9
14.4 Packing Group III

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Description	UN3082, Environmentally hazardous substances, liquid, n.o.s, 9, III
14.5 Marine Pollutant	Np
14.6 Special Provisions	274, 335, 969
Limited Quantity (LQ)	5 L
EmS-No.	F-A, S-F
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	No information available

Air transport (ICAO-TI / IATA-DGR)

14.1 UN Number	UN3082
14.2 Proper Shipping Name	Environmentally hazardous substances, liquid, n.o.s
14.3 Transport hazard class(es)	9
14.4 Packing Group	III
Description	UN3082, Environmentally hazardous substances, liquid, n.o.s, 9, III
14.5 Environmental hazards	Yes
14.6 Special Provisions	A97, A158, A197
Limited Quantity (LQ)	30 kg G
ERG Code	9L

Section 15: REGULATORY INFORMATION

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

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Check whether measures in accordance with Directive 94/33/EC for the protection of young people at work must be taken.

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)

EU-REACH (1907/2006) - Candidate List of Substances of Very High Concern (SVHC) for Authorization in accordance with Article 59

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction

This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

EU-REACH (1907/2006) - Annex XIV - List of substances subject to Authorization

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

Persistent Organic Pollutants

Not applicable

15.2. Chemical safety assessment

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Chemical Safety Assessments have been carried out by the Reach registrants for substances registered at >10 tpa. No Chemical Safety Assessment has been carried out for this mixture

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

H412 - Harmful to aquatic life with long lasting effects

H319 - Causes serious eye irritation

H317 - May cause an allergic skin reaction

H241 - Heating may cause a fire or explosion

H400 - Very toxic to aquatic life

Legend

SVHC: Substances of Very High Concern for Authorisation:

Legend SECTION 8: Exposure controls/personal protection

TWA TWA (time-weighted average)

STEL

STEL (Short Term Exposure Limit)

Ceiling Maximum limit value

*

Skin designation

PBT Persistent, Bioaccumulative, and Toxic (PBT) Chemicals

STOT RE Specific target organ toxicity - Repeated exposure

STOT SE Specific target organ toxicity - Single exposure

EWC: European Waste Catalogue

Key literature references and sources for data

Classification and labeling data calculated from data received from raw material suppliers

Prepared By Product Safety & Regulatory Affairs

Revision Date 23-Nov-2018

Indication of changes

Revision note Not applicable.

Training Advice Provide adequate information, instruction, and training for operator

Further information No information available

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

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