

EVO-STIK TENSOL 12
 Supersedes Date: 23-Nov-2018

Revision Date 14-Feb-2019
Revision Number 1.04

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

1.1. Product Identifier

Product Name EVO-STIK TENSOL 12
Pure substance/mixture Mixture

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 corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Skin sensitisation	Category 1 - (H317)
Carcinogenicity	Category 2 - (H351)
Specific target organ toxicity (single exposure)	Category 3 - (H335)
Specific target organ toxicity (repeated exposure)	Category 2 - (H373)

2.2. Label Elements

Contains: Methyl methacrylate, Methylene chloride



Signal word
 WARNING

Hazard statements

Safety Data Sheet

EVO-STIK TENSOL 12
Supersedes Date: 23-Nov-2018

Revision Date 14-Feb-2019
Revision Number 1.04

H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H335 - May cause respiratory irritation
H336 - May cause drowsiness or dizziness
H351 - Suspected of causing cancer
H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary statements

P101 - If medical advice is needed, have product container or label at hand
P260 - Do not breathe mist/vapours/spray
P280 - Wear protective gloves and eye/face protection
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P314 - Get medical advice/attention if you feel unwell
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed
P501 - Dispose of contents/ container to an approved waste disposal plant

Additional information

This product requires tactile warnings if supplied to the general public. This product requires child resistant fastenings if supplied to the general public.

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

Not applicable

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
Methylene chloride	200-838-9	75-09-2	>25 - <40	STOT SE 3 (H335) STOT SE 3 (H336) STOT RE 2 (H373) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Carc. 2 (H351)		01-2119480404-41-XXXX
Methyl methacrylate	201-297-1	80-62-6	>25 - <40	Skin Irrit. 2 (H315) Skin Sens. 1 (H317) STOT SE 3 (H335) Flam. Liq. 2	STOT SE 3 :: C>=10%	01-2119452498-28-xxxx

Safety Data Sheet

EVO-STIK TENSOL 12
Supercedes Date: 23-Nov-2018

Revision Date 14-Feb-2019
Revision Number 1.04

				(H225)		
2-Phenoxyethanol	204-589-7	122-99-6	1 - <5	Acute Tox. 4 (H302) Eye Irrit. 2 (H319)		01-2119488943- 21-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. Get medical attention immediately if symptoms occur.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist. Do not rub affected area. Get medical attention if irritation develops and persists.
Skin contact	May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a doctor. Wash off immediately with soap and plenty of water for at least 15 minutes.
Ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or poison control centre immediately. Clean mouth with water and drink afterwards plenty of water.
Self-protection of the first aider	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

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

Symptoms Itching. Rashes. Hives. Burning sensation.

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

Note to doctors May cause sensitisation in susceptible persons. 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 Product is or contains a sensitiser. May cause sensitisation by skin contact.

Hazardous Combustion Products Carbon oxides.

5.3. Advice for firefighters

Safety Data Sheet

EVO-STIK TENSOL 12
Supercedes Date: 23-Nov-2018

Revision Date 14-Feb-2019
Revision Number 1.04

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 Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. See section 8 for more information.

Other information Refer to protective measures listed in Sections 7 and 8.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so.

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.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Use personal protection recommended in Section 8.

General hygiene considerations Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children.

7.3. Specific end use(s)

Specific Use(s)
Adhesives and/or sealants.

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

Safety Data Sheet

EVO-STIK TENSOL 12
 Supersedes Date: 23-Nov-2018

Revision Date 14-Feb-2019
 Revision Number 1.04

Chemical Name	European Union	Ireland	United Kingdom
Methylene chloride 75-09-2	-	TWA: 100 ppm TWA: 353 mg/m ³ STEL: 200 ppm STEL: 706 mg/m ³ Sk*	TWA: 353 mg/m ³ TWA: 100 ppm STEL: 200 ppm STEL: 706 mg/m ³ Sk*
Methyl methacrylate 80-62-6	TWA: 50 ppm STEL: 100 ppm	TWA: 50 ppm STEL: 100 ppm	TWA: 50 ppm TWA: 208 mg/m ³ STEL: 100 ppm STEL: 416 mg/m ³

Chemical Name	European Union	Ireland	United Kingdom
Methylene chloride 75-09-2	-	-	30 ppm end-tidal breath

Derived No Effect Level (DNEL) No information available

Derived No Effect Level (DNEL)

Methylene chloride (75-09-2)

Type Worker Short term Systemic health effects
 Exposure route Inhalation
 Derived No Effect Level (DNEL) 706 mg/m³

Type Worker Long term Systemic health effects
 Exposure route Dermal
 Derived No Effect Level (DNEL) 4750 mg/kg bw/d

Type Worker Long term Systemic health effects
 Exposure route Inhalation
 Derived No Effect Level (DNEL) 353 mg/m³

Derived No Effect Level (DNEL)

Methylene chloride (75-09-2)

Type Consumer Short term Systemic health effects
 Exposure route Inhalation
 Derived No Effect Level (DNEL) 353 mg/m³

Type Consumer Long term Systemic health effects
 Exposure route Dermal
 Derived No Effect Level (DNEL) 2395 mg/kg bw/d

Type Consumer Long term Local health effects
 Exposure route Oral
 Derived No Effect Level (DNEL) 0.06 mg/kg bw/d

Type Consumer Long term Local health effects
 Exposure route Inhalation
 Derived No Effect Level (DNEL) 88.3 mg/m³

Predicted No Effect Concentration (PNEC) No information available.

Predicted No Effect Concentration (PNEC)

Methylene chloride (75-09-2)

Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.54 mg/l
Freshwater sediment	4.47 mg/kg dry weight
Marine water	0.194 mg/kg dry weight
Marine sediment	1.61 mg/kg dry weight
Soil	0.583 mg/kg dry weight

Safety Data Sheet

EVO-STIK TENSOL 12
Supersedes Date: 23-Nov-2018

Revision Date 14-Feb-2019
Revision Number 1.04

8.2. Exposure controls

Engineering controls Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/face protection	Tight sealing safety goggles. Face protection shield.
Hand protection	Wear protective gloves. The breakthrough time of the gloves depends on the material and the thickness as well as the temperature.
Skin and body protection	Wear appropriate personal protective clothing to prevent skin contact.
Respiratory protection	In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit. In case of inadequate ventilation wear respiratory protection.
Recommended filter type:	Organic gases and vapours filter conforming to EN 14387.

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
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	No data available	
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	No data available	
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

Safety Data Sheet

EVO-STIK TENSOL 12
Supercedes Date: 23-Nov-2018

Revision Date 14-Feb-2019
Revision Number 1.04

Reactivity No information available.

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 Strong acids. Strong bases. Strong oxidising agents.

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 May cause irritation of respiratory tract. Specific test data for the substance or mixture is not available.

Eye contact Irritating to eyes. Causes serious eye irritation.

Skin contact May cause sensitisation by skin contact. Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). Causes skin irritation.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Itching. Rashes. Hives. Redness. May cause redness and tearing of the eyes.

Numerical measures of toxicity

Acute Toxicity

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

ATEmix (oral) 24,126.00 mg/kg

ATEmix (inhalation-dust/mist) 162.00 mg/l

Component Information

Safety Data Sheet

EVO-STIK TENSOL 12
 Supersedes Date: 23-Nov-2018

Revision Date 14-Feb-2019
 Revision Number 1.04

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Methylene chloride 75-09-2	> 2000 mg/kg (Rat)		>86 mg/L (Rat) 4 h
Methyl methacrylate 80-62-6	= 7872 mg/kg (Rat)	5000 - 7500 mg/kg (Rabbit) > 5 g/kg (Rabbit)	= 7093 ppm (Rat) 4 h
2-Phenoxyethanol 122-99-6	LD50 = 1850 mg/kg (Rat) OECD 401	= 5 mL/kg (Rabbit)	LC50 >1000 mg/L (Rat)

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

Skin corrosion/irritation Classification based on data available for ingredients. Causes skin irritation.

Serious eye damage/eye irritation Causes serious eye irritation.

Respiratory or skin sensitisation May cause sensitisation by skin contact.

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

Carcinogenicity Classification based on data available for ingredients. Contains a known or suspected carcinogen.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	European Union
Methylene chloride 75-09-2	Carc. 2

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

STOT - single exposure May cause respiratory irritation.

STOT - repeated exposure May cause damage to organs through prolonged or repeated exposure.

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

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Toxicity to Micro-organisms	Crustacea	M-Factor
Methylene chloride 75-09-2	EC50: >500mg/L (72h, Pseudokirchneriella subcapitata) EC50: >500mg/L (96h, Pseudokirchneriella subcapitata)	LC50: =193mg/L (96h, Lepomis macrochirus) LC50: 262 - 855mg/L (96h, Pimephales promelas) LC50: 140.8 - 277.8mg/L (96h, Pimephales promelas)	EC50 = 1 mg/L 24 h EC50 = 2.88 mg/L 15 min	EC50 48 h = 27 mg/L (Daphnia magna)	-
Methyl methacrylate 80-62-6	EC50: =170mg/L (96h,	LC50 96 h > 79 mg/L	-	EC50: =69mg/L (48h, Daphnia	-

Safety Data Sheet

EVO-STIK TENSOL 12
 Supersedes Date: 23-Nov-2018

Revision Date 14-Feb-2019
 Revision Number 1.04

	Pseudokirchneriella subcapitata)	(Oncorhynchus mykiss static) Lepomis macrochirus 96h =191-283 mg/l		magna)	
2-Phenoxyethanol 122-99-6	EC50: >500mg/L (72h, Desmodesmus subspicatus)	LC50: 220 - 460mg/L (96h, Leuciscus idus) LC50: =366mg/L (96h, Pimephales promelas) LC50: 337 - 352mg/L (96h, Pimephales promelas)	EC50 = 32.4 mg/L 5 min EC50 = 880 mg/L 17 h	EC50: >500mg/L (48h, Daphnia magna)	-

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulative potential There is no data for this product.

Component Information

Chemical Name	Partition coefficient	Bioconcentration factor (BCF)
Methylene chloride 75-09-2	1.25	40
Methyl methacrylate 80-62-6	1.38	-
2-Phenoxyethanol 122-99-6	1.2	0.349

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
Methylene chloride 75-09-2	The substance is not PBT / vPvB
Methyl methacrylate 80-62-6	The substance is not PBT / vPvB PBT assessment does not apply
2-Phenoxyethanol 122-99-6	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.

Safety Data Sheet

EVO-STIK TENSOL 12
Supercedes Date: 23-Nov-2018

Revision Date 14-Feb-2019
Revision Number 1.04

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	UN1593
14.2 Proper Shipping Name	Dichloromethane
14.3 Transport hazard class(es)	6.1
Labels	6.1
14.4 Packing Group	III
Description	UN1593, Dichloromethane, 6.1, III, (E)
14.5 Environmental hazards	Not applicable
14.6 Special Provisions	516
Classification Code	T1
Tunnel restriction code	(E)
Limited Quantity (LQ)	5 L
ADR Hazard Id (Kemmler Number)	60

IMDG

14.1 UN Number	UN1593
14.2 Proper Shipping Name	Dichloromethane
14.3 Transport hazard class(es)	6.1
14.4 Packing Group	III
Description	UN1593, Dichloromethane, 6.1, III
14.5 Marine Pollutant	Np
14.6 Special Provisions	None
Limited Quantity (LQ)	5 L
EmS-No.	F-A, S-A
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	UN1593
14.2 Proper Shipping Name	Dichloromethane
14.3 Transport hazard class(es)	6.1
14.4 Packing Group	III
Description	UN1593, Dichloromethane, 6.1, III
14.5 Environmental hazards	Not applicable
14.6 Special Provisions	None
Limited Quantity (LQ)	2 L
ERG Code	6L

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.

Safety Data Sheet

EVO-STIK TENSOL 12
Supersedes Date: 23-Nov-2018

Revision Date 14-Feb-2019
Revision Number 1.04

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 contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

Chemical Name	CAS No.	Restricted substance per REACH Annex XVII
Methylene chloride	75-09-2	59.

Dichloromethane (CAS 75-09-2) is restricted from being placed on the market for general public when used in paint strippers $\geq 0.1\%$. Further handling and use restrictions apply when used in industrial/professional paint stripping products.

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

National Regulations

15.2. Chemical safety assessment

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

H302 - Harmful if swallowed
H319 - Causes serious eye irritation
H335 - May cause respiratory irritation
H336 - May cause drowsiness or dizziness
H373 - May cause damage to organs through prolonged or repeated exposure
H315 - Causes skin irritation
H351 - Suspected of causing cancer
H317 - May cause an allergic skin reaction
H225 - Highly flammable liquid and vapour

Legend

SVHC: Substances of Very High Concern for Authorisation:

Legend SECTION 8: Exposure controls/personal protection

Safety Data Sheet

EVO-STIK TENSOL 12
Supersedes Date: 23-Nov-2018

Revision Date 14-Feb-2019
Revision Number 1.04

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 14-Feb-2019

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