

SAFETY DATA SHEET



This Safety Data Sheet contains information concerning the potential risks to those involved in handling, transporting and working with the material, as well as describing potential risks to the consumer and the environment. This information must be made available to those who may come into contact with the material or are responsible for the use of the material. This Safety Data Sheet has been prepared by a qualified and authorised chemist in accordance with formatting described in the REACH Regulation (EC) No 1907/2006, (Annex 11) and described in CLP Regulation (EC) No 1272/2008.

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

- 1.1 Product identifier**
PunctureSafe Permanent Puncture Prevention
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
Uses: Prevention of punctures in tyres
Uses advised against: None identified
- 1.3 Details of the supplier of the safety data sheet**
PunctureSafe UK
Unit 4 Clyst Court
Hill Barton Business
Park
EX5 1SR
Phone: 01395 233951
mail@puncturesafe.com
- 1.4 Emergency telephone number**

Tel 07599 242064 (24 hours)

SECTION 2: Hazards Identification

- 2.1 Classification of the substance or mixture**

Classification according to the Dangerous Preparations Directive 1999/EC:
Not classified as dangerous

Classification according to the Classification Labelling and Packaging Regulation EC (no) 1272/2008:
Not classified as hazardous
- 2.2 Label elements**

Label according to the Classification Labelling and Packaging Regulation EC (no) 1272/2008
No label required.
- 2.3 Other hazards**
None known.

SECTION 3: Composition

3.1 Mixtures

A mixture of organic and inorganic thixotropic polymers with fibres and ground rubber
Contains no hazardous substances above thresholds of concern.

SECTION 4: First Aid Measures

4.1 Description of first aid measures

EYE CONTACT: Rinse with water for several minutes. Obtain medical attention if irritation persists.

INHALATION: Remove from exposure, keep warm and at rest. If breathing becomes difficult call a doctor.

SKIN CONTACT: Rinse skin with water. Obtain medical attention if irritation persists. Wash clothing before re-use.

INGESTION: If swallowed, rinse mouth with water and drink small quantity of water (200-300 ml). Do not induce vomiting. Obtain medical attention if discomfort occurs.

4.2 Most important symptoms and effects, both acute and delayed

May cause mild irritation and discomfort on prolonged exposure.

4.3 Indication of any immediate medical attention and special treatments needed

No special treatments required.

SECTION 5: Firefighting Measures

5.1 Extinguishing media

Not flammable. Use extinguishing media appropriate to surrounding conditions.

5.2 Special hazards arising from the substance or mixture

May release acrid fumes and smoke in a fire.

5.3 Advice for fire fighters

Wear thermal protective clothing and breathing apparatus.

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective clothing, gloves and eye protection to prevent contact with eyes and skin. Exclude unnecessary personnel. Spills may cause surfaces to become slippery.

6.2 Environmental precautions

Prevent entry into drains and watercourses. Inform Water Company and/or Environment Agency if large quantities enter environment. However because of the nontoxic nature it safe to dispose of small quantities down the normal drainage system.

6.3 Methods and materials for containment and clearing up

SMALL SPILLS: Absorb in sand or inert absorbent and shovel into suitable containers. Label for disposal. Wash spill area with water.

LARGE SPILLS: Use sand or inert absorbent to dam and contain spillage. Collect into suitable containers and label for disposal. Wash spill area with water.

6.4 References to other sections

See section 8 and section 13 for further advice.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Avoid skin and eye contact. Avoid generating aerosols and mists. Wash hands thoroughly after use and before eating or drinking.

7.2 Conditions for safe storage, including any incompatibilities

Keep containers tightly closed. Store in a cool well-ventilated space.

7.3 Specific end uses(s)

PunctureSafe Puncture Prevention does not require any special instructions when handling, but when using the product in conjunction with compressed air, both in the tyre and with compressed air equipment a little guidance is appropriate.

Always follow the safety guidelines recommended by health and safety when working with compressed air. It is advisable to wear safety glasses when installing PunctureSafe in a tyre that is inflated because of the risk of damage to the eye by the product entering at force caused by compressed air. If the tyre is inflated to a very high air pressure in the region of 115psi which would be the case with heavy goods vehicles it is advisable to reduce that pressure to below 80psi before attempting to connect the dispensing end of the tyre sealant pump.

The product will cause no more than slight irritation to the skin even with prolonged contact but standard workwear, even a pair of light duty gloves will help minimise contact.

SECTION 8. Exposure Controls/Personal Protection**8.1 Control parameters**

No specific exposure limits available.

8.2 Exposure controls

Use in a well ventilated area.

Respiratory protection

In case of inadequate ventilation wear suitable respiratory protection.

Hand Protection

Suitable chemical resistant gloves recommended. Manufacturers recommendations should always be checked. Change gloves in accordance with manufacturer recommendations. If gloves are damaged during use, remove immediately and wash hands before replacing with new gloves.

Eye protection

Wear safety glasses with side shields or goggles when handling this product

Skin protection

Aprons or coveralls are recommended. These should be changed after use or if contaminated. Wash before re-use.

SECTION 9: Physical and Chemical Properties**9.1 Information on basic physical and chemical properties Appearance:**

Blue or red liquid gel with black rubber particles **Odour:** light rubber odour

Odour threshold:	No data
pH:	Approximately 8
Freezing point:	-52°C
Boiling	121-127°C
Flashpoint:	Not flammable
Evaporation rate:	No data
Flammability:	Not flammable
Upper/lower flammability limits:	Not flammable
Vapour pressure:	<20 mmHg
Vapour density	Approx. 1.05
Relative density	1.1 (water = 1)
Solubility in water:	Miscible
Solubility in other solvents:	No data
Partition coefficient (log Kow)	No data
Autoignition temperature	No data
Decomposition temperature	No data
Viscosity	4000 CPs
Explosive properties	Not classified as explosive

Oxidising properties Not classified as oxidising

9.2 Other information

None

SECTION 10: Stability and Reactivity

10.1 Reactivity

No reactive hazards identified

10.2 Chemical stability

Stable under expected conditions of use

10.3 Possibility of hazardous reactions

No hazardous reactions expected.

10.4 Conditions to avoid

Excessive heat.

10.5 Incompatible materials

Strong acids and oxidising agents.

10.6 Hazardous decomposition products

If heated to decomposition may release acrid smoke and fumes.

SECTION 11: Toxicological Information

11.1 Information on toxicological effects

This product has not been tested. Judgements on the expected toxicity of this product have been made based upon consideration of its major components.

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|------------------------------------|---|
| (a) acute toxicity | Not considered to be toxic, LD ₅₀ considered to be > 2000 mg/kg. |
| (b) skin corrosion/irritation | May cause mild irritation on prolonged exposure. |
| (c) serious eye damage/irritation | May cause mild irritation on prolonged exposure. |
| (d) respiratory/skin sensitisation | Contains no known sensitising substances. |
| (e) germ cell mutagenicity | Contains no substances known to cause germ cell mutations. |
| (f) carcinogenicity | Contains no substances known to cause carcinogenic effects |
| (g) reproductive toxicity | Contains no substances known to cause reproductive effects |
| (h) STOT-single exposure | Contains no substances known to cause systemic target organ effects on single exposure. |
| (i) STOT-repeated exposure | Contains no substances known to cause systemic target organ effects on repeated exposure above thresholds of concern. |
| (j) aspiration hazard | Not expected to present an aspiration hazard. |

SECTION 12: Ecological Information

This product has not been tested. Judgments on the expected toxicity of this product have been made based upon consideration of its major components.

12.1 Toxicity

Not expected to present a hazard to the environment.

12.2 Persistence and degradability

The organic components are expected to be biodegradable. The rubber particles and fibres are not expected to be biodegradable.

12.3 Bio accumulative potential

None of the components are expected to be bio accumulative.

12.4 Mobility in soil

Not expected to be mobile in the environment.

12.5 Results of PBT and vPvB assessment

A full PBT and vPvB assessment has not been carried out, however, none of the components are expected to be PBT or vPvB.

12.6 Other adverse effects

None known.

SECTION 13: Disposal Considerations

13.1 Waste treatment methods

Dispose of in a manner that complies with local regulations.

The containers should be rinsed thoroughly with water and can be disposed of as non-hazardous waste

SECTION 14: Transport Information

Not classified as hazardous for transport.

14.1	UN Number	None
14.2	UN Proper shipping name	None
14.3	Transport hazard class(es)	None
14.4	Packing group	None
14.5	Environmental hazards	None
14.6	Special precautions for user	None
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	

SECTION 15: Regulatory Information

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

All components are listed as existing substances in Europe

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out for this product.

SECTION 16: Other Information

Revision information:

This safety data sheet has been reformatted to comply with the format provided in the REACH Regulation (EC) No 1907/2006.

R Phrases and H Statements used in Section 3

None

List of Abbreviations used in this SDS:

CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging Regulation (EC) no 1272/2008
DSD	Dangerous Substances Directive 67/548/EEC
DPD	Dangerous Preparations Directive 1999/45/EC
EC	European Community/Commission
PBT	Persistent, Bio accumulative and Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) no 1907/2006
vPvB	very Persistent, very Bio accumulative

References:

ECHA CHEM Database of Registered Substances and Classification & Labelling Inventory
Further information available from supplier on request

Method used for classification of mixtures:

Ingredient based approaches and expert judgment

Training requirements for workers

No special training requirements

Other relevant information

This product contains trace amounts of crystalline silica, which may be harmful if inhaled. The product is supplied as a water based viscous gel and no inhalation risk is foreseen from its use. The product will dry to a rubbery consistency if heated, but in the unlikely event that the product becomes hardened, suitable precautions to avoid inhalation should be taken if activities such as grinding, drilling and cutting are to be carried out.

Based on information from our component suppliers, this SDS also certifies that Puncturesafe Puncture Prevention contain no substances of very high concern (SVHC) as listed by the European Chemicals Agency (ECHA) under the provisions of Regulation (EC) No 1907/2006 of the European Parliament and of the council concerning the Registration, Evaluation, Authorisation, and Restriction of Chemicals (REACH) per the ECHA 19/12/2011 and previous updates.

The provision of this certificate supersedes and replace the provision of all other certificates (SDS) previously delivered relating to compliance with the REACH regulation.

