

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006  
(amended by Regulation (EU) 2015/830)

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## UDB Solvent-welding agent

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

#### 1.1. Product identifier

**Product code** None.

**Synonyms** None.

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

**Use of the Substance/Mixture** Solvents for bonding of sheeting coated with thermoplastic polyurethane

#### 1.3. Details of the supplier of the safety data sheet

##### Company/Undertaking Identification

F:  
SOPREMA S.A.S  
14 rue de Saint Nazaire  
F-67025 STRASBOURG CEDEX  
+33(0) 3.86.63.29.18  
ygaillard@soprema.fr

D:  
SOPREMA GmbH  
NL Leutkirch  
Wangener Str. 58  
D-88299 Leutkirch  
+49 75 61 98 55 0

CH:  
PAVATEX SA  
Rte de la Pisciculture 37  
CH-1701 Fribourg  
+41 26 426 31 11  
safetydatasheet@pavatex.com  
www.pavatex.com

A:  
SOPREMA GmbH  
Harter Süd Strasse 12  
8075 Hart bei Graz  
+43 316 670 223

**1.4. Emergency telephone number** See 1.3

**Issuing date** 23.12.2016

**Version** 2

## 2. Hazards identification

### 2.1. Classification of the substance or mixture

**Classification according to Regulation (EC) No. 1272/2008**

Serious eye damage/eye irritation, Cat. 2, H319  
Carcinogenicity, Cat. 2, H351  
Specific target organ toxicity (single exposure, inhalation), Cat. 3, H335  
Flammable liquids, Cat. 2, H225

**Additional information**

For the full text of the phrases mentioned in this Section, see Section 16.

### 2.2. Label elements



**Signal Word**

Danger

**Hazard Statements**

H225: Highly flammable liquid and vapour.  
H319: Causes serious eye irritation.  
H335: May cause respiratory irritation.  
H351: Suspected of causing cancer.

**Precautionary statements**

P201: Obtain special instructions before use.  
P210b: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P241: Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
P261: Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P271: Use only outdoors or in a well-ventilated area.  
P280: Wear protective gloves/ protective clothing/ eye protection/ 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.

**Supplemental information**

May form explosive peroxides.

**Product identifier**

Tetrahydrofuran, CAS-No. 109-99-9, EC-No. 203-726-8

### 2.3. Other hazards

No information available.

## 3. Composition/information on ingredients

**Chemical characterization**

Liquid substance.

Components		CLP Classification	Product identifier
Tetrahydrofuran	> 99.8%	Carc. 2 H351, Eye Irrit. 2 H319, STOT SE 3 H335, Flam. Liq. 2 H225, EUH019 [CEy2: C ≥ 25 %   SSEIn3: C ≥ 25 %]	CAS-No.: 109-99-9 EC-No.: 203-726-8 Index-No: 603-025-00-0

For the full text of the phrases mentioned in this Section, see Section 16.

**Hazardous impurities** None known.

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## 4. First aid measures

### 4.1. Description of first aid measures

<b>Inhalation</b>	Move to fresh air in case of accidental inhalation of vapours or decomposition products. If breathing is difficult, give oxygen.
<b>Skin contact</b>	Wash off immediately with plenty of water.
<b>Eye contact</b>	Rinse thoroughly with plenty of water, also under the eyelids. If easy to do, remove contact lens, if worn. If eye irritation persists, consult a specialist.
<b>Ingestion</b>	Immediately give plenty of water (if possible charcoal slurry).

**4.2. Most important symptoms and effects, both acute and delayed** None known.

**4.3. Indication of any immediate medical attention and special treatment needed** None known.

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## 5. Firefighting measures

### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<b>Extinguishing media which must not be used for safety reasons</b>	High volume water jet.

**5.2. Special hazards arising from the substance or mixture** During a fire, smoke may contain the original material in addition to unidentified toxic and/or irritating compounds.

### 5.3. Advice for firefighters

**Special protective equipment for firefighters** Standard procedure for chemical fires. In the event of fire, wear self-contained breathing apparatus.

**Specific methods**

Do not use a solid water stream as it may scatter and spread fire. Water mist may be used to cool closed containers.

## 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**Advice for non-emergency personnel**

Remove all sources of ignition. Ensure adequate ventilation. Keep people away from and upwind of spill/leak.

**Advice for emergency responders**

Remove all sources of ignition. Pay attention to flashback. Ensure adequate ventilation. Use personal protective equipment. Keep people away from and upwind of spill/leak. Vapours are heavier than air and may spread along floors.

### 6.2. Environmental precautions

No special environmental precautions required.

### 6.3. Methods and material for containment and cleaning up

Small quantities: Wipe up with adsorbent material (e.g. cloth, fleece). Large quantities: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). After cleaning, flush away traces with water.

## 7. Handling and storage

### 7.1. Precautions for safe handling

Use only in well-ventilated areas. Avoid contact with eyes and skin. When using, do not eat, drink or smoke. In case of insufficient ventilation, wear suitable respiratory equipment.

### 7.2. Conditions for safe storage, including any incompatibilities

Store at room temperature in the original container.

### 7.3. Specific end use(s)

No information available.

## 8. Exposure controls/personal protection

### 8.1. Control parameters

**Exposure limit(s)**

No data is available on the product itself.

**Tetrahydrofuran (CAS 109-99-9)**

EU - Occupational Exposure (2000/39/EC) - First List of Indicative Occupational Exposure Limit Values - TWAs 50 ppm TWA  
150 mg/m<sup>3</sup> TWA

EU - Occupational Exposure (2000/39/EC) - First List of Indicative Occupational Exposure Limit Values - STELs 100 ppm STEL  
300 mg/m<sup>3</sup> STEL

United Kingdom - Workplace 100 ppm STEL

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Exposure Limits (WELs) - STELs	300 mg/m <sup>3</sup> STEL
United Kingdom - Workplace	50 ppm TWA
Exposure Limits (WELs) - TWAs	150 mg/m <sup>3</sup> TWA

## 8.2. Exposure controls

**Occupational exposure controls** General industrial hygiene practice. Wash hands before breaks and at the end of workday.

### Personal protection equipment

#### *Respiratory protection*

In case of good ventilation no personal respiratory protective equipment required. Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust). Respirator with combination filter for vapour/particulate (EN 141). Respirator with AP2 filter.

#### *Hand protection*

Gloves made of Nitril. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

#### *Eye protection*

Avoid contact with eyes. Safety glasses with side-shields conforming to EN166.

#### *Skin and body protection*

No special measures required.

#### **Thermal hazards**

Do not heat the product.

**Environmental exposure controls** No special measures required.

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## 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Form</b>	Liquid.
<b>Colour</b>	Colourless.
<b>Odour</b>	Solvent.
<b>Odour Threshold</b>	No information available.
<b>pH:</b>	neutral
<b>Melting point/range:</b>	-108 °C
<b>Boiling point/range:</b>	64 °C
<b>Flash point:</b>	-20 °C (closed cup)
<b>Evaporation Rate:</b>	No information available.
<b>Flammability:</b>	No information available.
<b>Explosion limits:</b>	12,4% / 1.5%
<b>Vapour pressure:</b>	173 mbar @ 20 °C
<b>Vapor density:</b>	2.5
<b>Relative density:</b>	0.89 g/ml
<b>Water solubility:</b>	miscible
<b>Partition coefficient (n-octanol/water):</b>	0.46

<b>Autoignition temperature:</b>	No information available.
<b>Decomposition temperature:</b>	No information available.
<b>Viscosity:</b>	0.48 mPa.s
<b>Combustion/explosion hazards:</b>	Extremely flammable liquid and vapour
<b>Oxidizing properties:</b>	None

## 9.2. Other information

<b>General Product Characteristics</b>	No information available.
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## 10. Stability and reactivity

<b>10.1. Reactivity</b>	Risk of ignition.
<b>10.2. Chemical stability</b>	No decomposition if used as directed.
<b>10.3. Possibility of hazardous reactions</b>	May be ignited by open flame. Vapors may spread long distances and ignite.
<b>10.4. Conditions to avoid</b>	Direct heating, dirt, chemical contamination, sunlight, UV or ionizing radiation. Vapours in contact with fire or red-hot surfaces may form decomposition products with highly irritating and warning effects.
<b>10.5. Incompatible materials</b>	Reacts with air to form peroxides.
<b>10.6. Hazardous decomposition products</b>	May form peroxides and therefore cause fire when in contact with combustible materials.

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## 11. Toxicological information

### 11.1. Information on toxicological effects

<b>Acute toxicity</b>	<b>Tetrahydrofuran (CAS 109-99-9)</b> Inhalation LC50 Rat = 21000 ppm 3 h(JAPAN_GHS) Oral LD50 Rat = 1650 mg/kg (JAPAN_GHS)
<b>Skin corrosion/irritation</b>	No data available.
<b>Serious eye damage/eye irritation</b>	Causes eye irritation.
<b>Respiratory / Skin Sensitisation</b>	None.
<b>Carcinogenicity</b>	Suspected of causing cancer.
<b>Germ cell mutagenicity</b>	No data available.
<b>Reproductive toxicity</b>	No data available.
<b>Specific target organ toxicity (single exposure)</b>	No data available.

<b>Specific target organ toxicity (repeated exposure)</b>	No data available.
<b>Aspiration hazard</b>	No data available.
<b>Human experience</b>	May cause respiratory tract irritation.

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## **12. Ecological information**

<b>12.1. Toxicity</b>	Ecological injuries are not known or expected under normal use.
<b>Tetrahydrofuran (CAS 109-99-9)</b> Ecotoxicity - Freshwater Fish - Acute Toxicity Data	96 h LC50 Pimephales promelas: 1970 - 2360 mg/L [flow-through] 96 h LC50 Pimephales promelas: 2700 - 3600 mg/L [static]
<b>12.2. Persistence and degradability</b>	Not readily biodegradable (39 % / 28 day(s)).
<b>12.3. Bioaccumulative potential</b>	Bioaccumulation is unlikely.
<b>12.4. Mobility in soil</b>	The product evaporates readily. Not expected to adsorb on soil.
<b>12.5. Results of PBT and vPvB assessment</b>	This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).
<b>12.6. Other adverse effects</b>	No information available.

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## **13. Disposal considerations**

### **13.1. Waste treatment methods**

<b>Waste from residues / unused products</b>	Offer surplus and non-recyclable solutions to an established disposal company. Where possible recycling is preferred to disposal or incineration. The product should not be allowed to enter drains, water courses or the soil.
<b>Contaminated packaging</b>	Empty containers can be recycled or landfilled together with domestic waste.

## 14. Transport information

<b>ADR/RID</b>	<p>UN 2056.          Proper shipping name: TETRAHYDROFURAN.          Class 3.          Packing group II.          ADR/RID-Labels 3.          Classification code F1.          Hazard identification no. 33.          Limited quantity 1 L.          Excepted quantity E2 .          Tunnel restriction code D/E</p>
<b>IMDG</b>	<p>UN 2056.          Proper shipping name: Tetrahydrofuran.          Class 3.          Packing group II.          IMDG-Labels 3.          Marine pollutant: No.          Limited quantity 1 L.          EmS F-E, S-D.</p>
<b>IATA</b>	<p>UN 2056.          Proper shipping name: Tetrahydrofuran.          Class 3.          Packing group II.          IATA label 3.          Packing instruction (passenger aircraft): 353 (5 L).          Packing instruction (LQ): Y341 (1 L).          Packing instruction (cargo aircraft): 364 (60 L).</p>
<b>Inland navigation ADN</b>	<p>UN 2056.          Proper shipping name: TETRAHYDROFURAN.          Class 3.          Packing group II.          ADN labels 3.          ADN danger 3.</p>
<b>Further Information</b>	None.

## 15. Regulatory information

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

**Regulatory Information** The product is classified and labelled according to Regulation (EC) No. 1272/2008.

**Tetrahydrofuran (CAS 109-99-9)**  
 EU - REACH (1907/2006) - List of Registered Substances Present

**15.2. Chemical safety assessment** Not required.



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## 16. Other information

**Key or legend to abbreviations and acronyms**

CLP: Classification according to Regulation (EC) No. 1272/2008 (GHS)

**Key literature references and sources for data**

Information taken from reference works and the literature.

**Classification procedure**

Calculation method.

**Full text of phrases referred to under sections 2 and 3**

EUH019: May form explosive peroxides.  
H225: Highly flammable liquid and vapour.  
H319: Causes serious eye irritation.  
H335: May cause respiratory irritation.  
H351: Suspected of causing cancer.

**Training advice**

For further information, please also consult our Internet site.

**Instructions for use**

Restricted to professional users.

**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.