CaberFix Joint & Joist®
Product Safety Data Sheet
Health and Safety Data - Version 4.3
Product Code: CaberFix Joint & Joist®

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

1.1. Product identifier
Trade name: Norbord CaberFix Joint & Joist

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

1.3. Details of the supplier of the safety data sheet
Application: Adhesive
Company: Norbord Europe Ltd.
Station Road
Cowie, Stirling
Scotland
FK7 7BQ
Tel: (+44)(0)1786 812 921

1.4. Emergency telephone number
Tel: (+44)(0)1786 812 921
Office hours. Ask for Health & Safety or Technical Manager.

2 Hazards identification

2.1 Classification of the substance or mixture
Type of product: Mixture

Classification (REGULATION (EC) No 1272/2008)
Eye irritation, Category 2
H319: Causes serious eye irritation.

Skin sensitisation, Category 1
H317: May cause an allergic skin reaction.

2.2 Label elements
Labelling (REGULATION (EC) No 1272/2008)
Hazard Pictogram

Signal word: Warning
Hazard statements:
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.

Precautionary statements:
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children

Prevention
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/spray.
P280 Wear protective gloves/ eye protection/ face protection.

Response
P302 + P352 IF ON SKIN: Wash with plenty of water

Disposal
P501 Dispose of contents/container in accordance with local regulation.

Hazardous components which must be listed on the label:
217-164-6 N-(3-trimethoxysilyl)propyl)ethylenediamine
Pentamethyl piperidylsebacate

2.3. Other hazards
This substance/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.
### 3.2. Mixtures

**Chemical name**
- trimethoxysilane
- N-(3-[(trimethoxysilyl)propyl]ethylenediamine
- Pentamethyl piperidylsebacate

**CAS-No.**
- 2768-02-7
- 1760-24-3
- 915-687-0

**EC-No.**
- 220-449-8
- 217-164-6
- 01-2119491304-40-XXXX

**Registration number**
- 01-2119513215-52-XXXX
- 210-11970215-39-XXXX
- 01-2119491304-40-XXXX

**Contains:**
- tetramethyl orthosilicate <= 0,2 %
- 1,2-Ethanediamine, N,N-bis[3-[(trimethoxysilyl)propyl]- := 5 - <= 10 %
- N,N'-bis[3-[(trimethoxysilyl)propyl]ethylenediamine >= 5 - <= 10 %
- bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

**Classification (REGULATION (EC) No 1272/2008)**
- Flam. Liq.3; H226
- Acute Tox.4; H332
- STOT RE2; H373
- Acute Tox.4; H332
- Eye Dam.1; H318
- Skin Sens.1; H317
- Skin Sens.1A; H317
- Aquatic Acute1; H400
- Aquatic Chronic1; H410

**Concentration [%]**
- >= 1 - < 2,5
- >= 1 - < 2,5
- < 0,25

For the full text of the H-Statements mentioned in this Section, see Section 16.

### 4 First Aid Measures

#### 4.1. Description of first aid measures

**General advice:** Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.

**If inhaled:** Move to fresh air. Consult a physician after significant exposure.

**In case of skin contact:** Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. If symptoms persist, call a physician.

**In case of eye contact:** Immediately flush eye(s) with plenty of water. Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

**If swallowed:** Do not induce vomiting without medical advice. Rinse mouth with water. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person.

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

**Symptoms:** Allergic reactions. Excessive lachrymation. See Section 11 for more detailed information on health effects and symptoms.

**Risks:** Irritant effects sensitising effects. May cause an allergic skin reaction. Causes serious eye irritation.

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

**Specific treatments** Treat symptomatically.

### 5 Firefighting measures

#### 5.1. Extinguishing media

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

#### 5.2. Special hazards arising from the substance or mixture

**Hazardous combustion products:** No hazardous combustion products are known

#### 5.3. Advice for firefighters

**Special protective equipment for firefighters:** In the event of fire, wear self-contained breathing apparatus.

**Further information:** Standard procedure for chemical fires.

### 6 Accidental release measures

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

**Personal precautions:** Use personal protective equipment. Deny access to unprotected persons.

#### 6.2. Environmental precautions

**Environmental precautions** Do not flush into surface water or sanitary sewer system.

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

**Methods for cleaning up:** Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

#### 6.4. Reference to other sections

For personal protection see section 8.
7 Handling and Storage

7.1. Precautions for safe handling

Advice on safe handling: Do not breathe vapours or spray mist. Avoid exceeding the given occupational exposure limits (see section 8). Do not get in eyes, on skin, or on clothing. For personal protection see section 8. Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. Smoking, eating and drinking should be prohibited in the application area. Follow standard hygiene measures when handling chemical products.

Advice on protection against fire and explosion: Normal measures for preventive fire protection.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers: Keep container tightly closed in a dry and well-ventilated place. Store in accordance with local regulations.

Other data: No decomposition if stored and applied as directed.

7.3. Specific end use(s)

Specific end use(s) No data available.

8 Exposure Controls/personal protection

8.1. Control parameters

Contains no substances with occupational exposure limit values.

Occupational exposure limits

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-no</th>
<th>Value</th>
<th>Control parameters</th>
<th>Basis*</th>
</tr>
</thead>
<tbody>
<tr>
<td>methanol</td>
<td>67-56-1</td>
<td>TWA</td>
<td>200 ppm</td>
<td>GB EH40</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>266 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>250 ppm</td>
<td>GB EH40</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>333 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

*The above mentioned values are in accordance with the legislation in effect at the date of the release of this safety data sheet.

8.2. Exposure controls

Protective equipment

Personal protective equipment

Eye protection: Safety glasses with side-shields
Eye wash bottle with pure water

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard must be worn at all times when handling chemical products. Reference number EN 374. Follow manufacturer specifications.

Suitable for short time use or protection against splashes: Butyl rubber/nitrile rubber gloves (0,4 mm), Contaminated gloves should be removed. Suitable for permanent exposure: Viton gloves (0,4 mm), breakthrough time >30 min.

Skin and body protection: Protective clothing (e.g. Safety shoes acc. to EN ISO 20345, long-sleeved working clothing, long trousers). Rubber aprons and protective boots are additionally recommended for mixing and stirring work.

Respiratory protection: No special measures required.

Environmental exposure controls

General advice: Do not flush into surface water or sanitary sewer system.

9 Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Paste</td>
</tr>
<tr>
<td>Colour</td>
<td>Various</td>
</tr>
<tr>
<td>Odour</td>
<td>Very faint</td>
</tr>
<tr>
<td>Odour Threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Lower explosion limit (Vol-%)</td>
<td>No data available</td>
</tr>
<tr>
<td>Upper explosion limit (Vol-%)</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point/range / Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point/boiling range</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>0,01 hPa</td>
</tr>
<tr>
<td>Density</td>
<td>1 g/cm³ at 20 °C</td>
</tr>
<tr>
<td>Water solubility</td>
<td>No data available</td>
</tr>
</tbody>
</table>
### 9.2. Other information

<table>
<thead>
<tr>
<th>Other information</th>
<th>No data available</th>
</tr>
</thead>
</table>

### 10 Stability and reactivity

#### 10.1. Reactivity

**Reactivity** No dangerous reaction known under conditions of normal use.

#### 10.2. Chemical stability

**Stability** The product is chemically stable.

#### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** Stable under recommended storage conditions.

#### 10.4. Conditions to avoid

**Conditions to avoid** No data available

#### 10.5. Incompatible materials

**Materials to avoid** No data available

#### 10.6. Hazardous decomposition products

**Hazardous decomposition products** No decomposition if stored and applied as directed methanol.

### 11 Toxicological Information

#### 11.1. Information on toxicological effects

**Acute toxicity** Not classified based on available information.

**Components**:

- **trimethoxysilylvinylsilane**:
  - Acute oral toxicity: LD50 Oral (Rat): ca. 7.120 mg/kg
  - Acute inhalation toxicity: LC50: ca. 16.8 mg/l
  - Exposure time: 4 h
  - Test atmosphere: dust/mist
  - Acute dermal toxicity: LD50: 3.540 mg/kg

- **N-(3-[trimethoxysilyl]propyl)ethylenediamine**:
  - Acute oral toxicity: LD50 Oral (Rat): 2.400 mg/kg

  **Acute inhalation toxicity:** LC50: 1.49 mg/l
  **Exposure time:** 4 h
  **Test atmosphere:** dust/mist
  **Acute dermal toxicity:** LD50: >2.000 mg/kg

- **Pentamethyl piperidylsebacate**:
  - Acute oral toxicity: LD50 Oral (Rat): 3.230 mg/kg

  **Skin corrosion/irritation**: Not classified based on available information.
  **Serious eye damage/eye irritation**: Causes serious eye irritation.
  **Respiratory or skin sensitisation**: Skin sensitisation: May cause an allergic skin reaction.
  **Respiratory sensitisation**: Not classified based on available information.
  **Germ cell mutagenicity**: Not classified based on available information.

**Carcinogenicity**: Not classified based on available information.

**Reproductive toxicity**: Not classified based on available information.

**STOT - single exposure**: Not classified based on available information.

**STOT - repeated exposure**: Not classified based on available information.

**Aspiration toxicity**: Not classified based on available information.

### 12 Ecological Information

#### 12.1. Toxicity

**Components**

- Toxicity to - fish LC50: 0.97 mg/l, 96 h, Fish

#### 12.2. Persistence and degradability

**Persistence and degradability** No data available.

#### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No data available

#### 12.4. Mobility in soil

**Mobility** No data available.

#### 12.5. Results of PBT and vPvB assessment

**Product**

- **Assessment** This substance/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.

#### 12.6. Other adverse effects

**Product**

- **Other adverse effects** There is no data available for this product.

### 13 Disposal considerations

#### 13.1. Waste treatment methods

**Product**

- The generation of waste should be avoided or minimized wherever possible.
- Empty containers or liners may retain some product residues.
- This material and its container must be disposed of in a safe way.
- Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.
- Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
- Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**Contaminated packaging**: 15 01 10* packaging containing residues.
14 Transport information

<table>
<thead>
<tr>
<th>Prohibition</th>
<th>Restriction</th>
</tr>
</thead>
<tbody>
<tr>
<td>REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)</td>
<td>Banned and/or restricted (1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich)</td>
</tr>
<tr>
<td>REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).</td>
<td>None of the components are listed (=&gt; 0.1 %).</td>
</tr>
<tr>
<td>REACH - List of substances subject to authorisation (Annex XIV)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>REACH Information:</td>
<td>All substances contained in our Products are - pre-registered or registered by our upstream suppliers, and/or - pre-registered or registered by us, and/or - excluded from the regulation, and/or - exempted from the registration.</td>
</tr>
<tr>
<td>VOC-CH (VOCV)</td>
<td>no VOC duties</td>
</tr>
<tr>
<td>VOC-EU (solvent)</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

If other regulatory information applies that is not already provided elsewhere in the Safety Data Sheet, then it is described in this subsection.

Health, safety and environmental regulation/legislation specific for the substance or mixture:

<table>
<thead>
<tr>
<th>Prohibition</th>
<th>Restriction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environmental Protection Act 1990 &amp; Subsidiary Regulations Health and Safety at Work Act 1974 &amp; Subsidiary Regulations Control of Substances Hazardous to Health Regulations (COSHH) May be subject to the Control of Major Accident Hazards Regulations (COMAH), and amendments.</td>
<td></td>
</tr>
</tbody>
</table>

15.2. Chemical safety assessment

This product contains substances for which Chemical Safety Assessments are still required.

16 Other information

Full text of H-Statements

- H226 Flammable liquid and vapour.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H332 Harmful if inhaled.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

- Full text of other abbreviations
  - Acute Tox. Acute toxicity
  - Aquatic Acute Acute aquatic toxicity
  - Aquatic Chronic Chronic aquatic toxicity
  - Eye Dam. Serious eye damage
  - Flam. Liq. Flammable liquids
  - Skin Sens. Skin sensitisation

- OEL Occupational Exposure Limit
- PBT Persistent, bioaccumulative and toxic
- PNEC Predicted no effect concentration
- SVHC Substances of Very High Concern
- vPvB Very persistent and very bioaccumulative

Store between Store between 5°C - 25°C

Contains SVHC NO

The information contained in this Safety Data Sheet corresponds to our level of knowledge at the time of publication. All warranties are excluded. Our most current General Sales Conditions shall apply. Please consult the product data sheet prior to any use and processing.

Changes as compared to previous version.