SAFETY DATA SHEET

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

1.1. Product identifier

   Trade name
   UltraPly™ TPO Cut Edge Sealant White
   Product no.
   -
   REACH registration number
   Not applicable

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

   Relevant identified uses of the substance or mixture
   Construction
   Uses advised against
   -
   The full text of any mentioned and identified use categories are given in section 16

1.3. Details of the supplier of the safety data sheet

   Company and address
   Firestone Building Products EMEA
   Ikaroslaan 75
   1930 Zaventem
   Belgium
   Tel.: +32 2 711 44 50
   Contact person
   -
   E-mail
   firestonemds@bfdp.com
   SDS date
   2019-09-17
   SDS Version
   3.0

1.4. Emergency telephone number

   In the event of a medical enquiry involving this product, please contact your doctor or local hospital accident and emergency department or the NHS enquiry service - dial 111.
   or contact BIG Emergency number +32 (0)14 58 45 45

   See section 4 “First aid measures”.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

   Flam. Liq. 3; H226
   Asp. Tox. 1; H304
   Skin Irrit. 2; H315
   Acute Tox. 4; H332
   STOT RE 2; H373
   Aquatic Chronic 3; H412

   See full text of H-phrases in section 2.2.
According to EC-Regulation 2015/830

2.2. Label elements

Hazard pictogram(s)

![Hazard pictogram](image)

**Signal word**
DANGER

**Hazard statement(s)**
- Flammable liquid and vapour. (H226)
- May be fatal if swallowed and enters airways. (H304)
- Causes skin irritation. (H315)
- Harmful if inhaled. (H332)
- May cause damage to organs through prolonged or repeated exposure. (H373)
- Harmful to aquatic life with long lasting effects. (H412)

**Precautionary statements**

**General**
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
- No smoking. (P210).
- Do not breathe mist/vapours/fume/spray. (P260).
- Wear protective gloves/protective clothing/eye protection/face protection. (P280).

**Response**
- Do NOT induce vomiting. (P331).
- IF SWALLOWED: Immediately call a POISON CENTER/doctor. (P301+P310).
- IF ON SKIN: Wash with plenty of water. (P302+P352).

**Storage**
- Store in a well-ventilated place. Keep cool. (P403+P235).

**Disposal**
- Dispose of contents/container to an approved waste disposal plant. (P501).

**Identity of the substances primarily responsible for the major health hazards**
- xylene; Distillates (petroleum), hydrotreated light; ethylbenzene; propylbenzene; cumene

**Additional labelling**
- Not applicable

**Unique formula identifier (UFI)**
- Not applicable

2.3. Other hazards
- This product contains substances that can cause chemical pneumonia if inhaled. The symptoms of chemical pneumonia may appear after several hours.
- This product contains an organic solvent. Repeated or prolonged exposure to organic solvents may result in adverse effects to the nervous system and internal organs such as liver and kidneys.
- Be aware of the formation of explosive Air/vapor mixtures is possible.

**Additional warnings**
- Not applicable

**VOC (volatile organic compound)**
- Not applicable

SECTION 3: Composition/information on ingredients

3.1/3.2. Substances/Mixtures

**NAME:** m-xylene o-xylene xylene p-xylene
**IDENTIFICATION NOS.:**
- CAS-no: 1330-20-7 EC-no: 215-535-7 REACH-no: 01-2119488216-32-xxxx
- Index-no: 601-022-00-9
- 25-50%
**CONTENT:**
- Flam. Liq. 3, Acute Tox. 4, Skin Irrit. 2
- H226, H312, H315, H332

**NOTE:**
- O, L
According to EC-Regulation 2015/830

NAME: ethylbenzene
IDENTIFICATION NOS.: CAS-no: 100-41-4 EC-no: 202-849-4 Index-no: 601-023-00-4
CONTENT: 5-20%
CLP CLASSIFICATION: Flam. Liq. 2, Asp. Tox. 1, Acute Tox. 4, STOT RE 2, Aquatic Chronic 3
H225, H304, H332, H373, H412
NOTE: O, L

NAME: Distillates (petroleum), hydrotreated light Kerosine - unspecified [A complex combination of hydr
IDENTIFICATION NOS.: CAS-no: 64742-47-8 EC-no: 265-149-8 REACH-no: 01-2119484819-18-xxxx Index-no: 649-422-00-2
CONTENT: 5-20%
CLP CLASSIFICATION: Flam. Liq. 3, Asp. Tox. 1, Skin Irrit. 2, STOT SE 3, Aquatic Chronic 2
H226, H304, H315, H336, H411
NOTE: O

NAME: titanium dioxide
IDENTIFICATION NOS.: CAS-no: 13463-67-7 EC-no: 236-675-5 REACH-no: 01-2119489379-17-xxx
CONTENT: ≤ 2.5%
CLP CLASSIFICATION: NA

NAME: propylbenzene cumene
IDENTIFICATION NOS.: CAS-no: 98-82-8 EC-no: 202-704-5 Index-no: 601-024-00-X
CONTENT: ≤ 0.1%
CLP CLASSIFICATION: Flam. Liq. 3, Acute Tox. 4, Asp. Tox. 1, STOT SE 3, Aquatic Chronic 2
H226, H302, H304, H335, H411
NOTE: O, L

(*) See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, If these are available.
O = Organic solvent L = European occupational exposure limit.

Other information
ATEmix(inhale, vapour) = 12,944 - 19,416
ATEmix(dermal) > 2000
ATEmix(oral) > 2000
Skin Cat. 2 Sum = Sum(Ci/S(G)CLi) = 5.44 - 8.16
N chronic (CAT 3) Sum = Sum(Ci/(M(chronic)i*25)*0.1*10^CATi) = > 1 - < 10

SECTION 4: First aid measures

4.1. Description of first aid measures

General information
In the case of accident: Contact a doctor or casualty department or call NHS 111 – take the label or this safety data sheet with you. NHS professionals can contact The National Poisons Information Service (dial 0344 892 0111, 24 h service).
Contact a doctor if in doubt about the injured person’s condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation
Bring the injured person into fresh air. Make sure the injured person is continuously monitored. Prevent shock by keeping the injured person warm and calm. If breathing ceases, give mouth-to-mouth resuscitation. If unconscious, roll the injured person into recovery position. Call an ambulance.

Skin contact
Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with soap and water. Skin cleanser can be used. DO NOT use solvents or thinners.

Eye contact
Remove contact lenses and open eyes widely. Flush eyes with water or saline water(20-30°C) for at least 15 minutes. Seek medical assistance and continue flushing during transport.

Ingestion
Do not induce vomiting! If vomiting occurs, keep head facing down to prevent vomit entering the lungs. Call a doctor or ambulance. Symptoms of chemical pneumonia can appear after several hours. People who have swallowed the product should be kept under medical attention for a minimum of 48 hours.
Burns
Rinse with water until the pain stops then continue to rinse for a further 30 minutes.

4.2. Most important symptoms and effects, both acute and delayed
This product contains substances that can cause chemical pneumonia if inhaled. The symptoms of chemical pneumonia may appear after several hours.
Neurotoxic effects: This product contains organic solvents, which may cause adverse effects to the nervous system. Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure.
Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

4.3. Indication of any immediate medical attention and special treatment needed
IF exposed or concerned: Get immediate medical advice/attention.
Information to medics
Bring this safety data sheet.

SECTION 5: Firefighting measures

5.1. Extinguishing media
Recommended: alcohol-resistant foam, carbonic acid, powder, water mist. Waterjets should not be used, since they can spread the fire.

5.2. Special hazards arising from the substance or mixture
If the product is exposed to high temperatures, e.g. in the event of fire, dangerous catabolic substances are produced. These are: Carbon oxides. Fire will result in dense black smoke. Exposure to combustion products may harm your health. Fire fighters should wear appropriate protection equipment. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

5.3. Advice for firefighters
Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Avoid inhalation of vapours from spilled material. Avoid direct contact with spilled substances. Storages not yet ignited must be cooled by water mist. Remove flammable materials if conditions allow it. Ensure sufficient ventilation.

6.2. Environmental precautions
Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities. It is recommended to install waste collection trays to prevent emissions to the waste water system and surrounding environment.

6.3. Methods and material for containment and cleaning up
Use sand, sawdust, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations. To the extent possible cleaning is performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections
See section on “Disposal considerations” in regard of handling of waste. See section on 'Exposure controls/personal protection' for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Avoid static electricity. Protect electrical equipment in accordance with current standards. To divert static electricity during transmission, containers must be grounded and connected by wire with the receiving
According to EC-Regulation 2015/830

containers. Do not use spark-forming tools.
Smoking, storage of tobacco, consumption and storage of food or liquids are not allowed in the workrooms.
It is recommended to install waste collection trays to prevent emissions to the waste water system and
surrounding environment. See section on 'Exposure controls/personal protection' for information on
personal protection. Avoid direct contact with the product.

7.2. Conditions for safe storage, including any incompatibilities
Always store in containers of the same material as the original container. Containers that have been
opened must be carefully resealed and kept upright to prevent leakage. Must be stored in a cool and well-
ventilated area, away from possible sources of ignition.

Storage temperature
No data available.

7.3. Specific end use(s)
This product should only be used for applications quoted in section 1.2

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

OEL

propylene cumene
Long-term exposure limit (8-hour TWA reference period): 25 ppm | 125 mg/m³
Short-term exposure limit (15-minute reference period): 50 ppm | 250 mg/m³
Comments: Sk (Sk = Can be absorbed through skin.)

titanium dioxide
Long-term exposure limit (8-hour TWA reference period): - ppm | 10(inh)/4(resp) mg/m³
Short-term exposure limit (15-minute reference period): - ppm | - mg/m³

ethylbenzene
Long-term exposure limit (8-hour TWA reference period): 100 ppm | 441 mg/m³
Short-term exposure limit (15-minute reference period): 125 ppm | 552 mg/m³
Comments: Sk (Sk = Can be absorbed through skin.)
m-xylene o-xylene xylene p-xylene
Long-term exposure limit (8-hour TWA reference period): 50 ppm | 220 mg/m³
Short-term exposure limit (15-minute reference period): 100 ppm | 441 mg/m³
Comments: Sk BMGV (Bmgv = Biological Monitoring Guidance Value. Sk = Can be absorbed through skin.)

DNEL / PNEC
No data available

8.2. Exposure controls
Compliance with the accepted occupational exposure limits values should be controlled on a regular basis.

General recommendations
Observe general occupational hygiene standards.

Exposure scenarios
In the event exposure scenarios are appended to the safety data sheet, the operational conditions and risk
management measures in these shall be complied with.

Exposure limits
Professional users are subjected to the legally set maximum concentrations for occupational exposure. See
occupational hygiene limit values above.

Appropriate technical measures
Airborne gas and dust concentrations must be kept at a minimum and below current limit values (see
above). Installation of an exhaust system if normal air flow in the work room is not sufficient is
recommended. Ensure emergency eyewash and -showers are clearly marked.

Hygiene measures
In between use of the product and at the end of the working day all exposed areas of the body must be
washed thoroughly. Always wash hands, forearms and face.

Measures to avoid environmental exposure
Keep containment materials near the workplace. If possible, collect spillage during work.
Individual protection measures, such as personal protective equipment

Generally
Use only CE marked protective equipment.

Respiratory Equipment
In case of brief exposure or low pollution wear respirator protection
In case of prolonged or high exposure, wear air-supplied respirator

Skin protection
Wear appropriate protection clothing, e.g. coveralls in polypropylene or working clothes in cotton or polyester.

Hand protection
Nitrile rubber

Eye protection
Wear safety glasses with side shields.

SECTION 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>Form</td>
<td>Liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>White</td>
</tr>
<tr>
<td>Odour</td>
<td>Characteristic</td>
</tr>
<tr>
<td>Odour threshold (ppm)</td>
<td>No data available.</td>
</tr>
<tr>
<td>pH</td>
<td>No data available.</td>
</tr>
<tr>
<td>Viscosity (40°C)</td>
<td>No data available.</td>
</tr>
<tr>
<td>Density (g/cm³)</td>
<td>0.939</td>
</tr>
<tr>
<td>Melting point (°C)</td>
<td>No data available.</td>
</tr>
<tr>
<td>Boiling point (°C)</td>
<td>137</td>
</tr>
<tr>
<td>Vapour pressure (25°C)</td>
<td>6.7 hPa</td>
</tr>
<tr>
<td>Decomposition temperature (°C)</td>
<td>No data available.</td>
</tr>
<tr>
<td>Evaporation rate (n-butylacetate = 100)</td>
<td>No data available.</td>
</tr>
</tbody>
</table>

Data on fire and explosion hazards

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash point (°C)</td>
<td>30</td>
</tr>
<tr>
<td>Ignition (°C)</td>
<td>230</td>
</tr>
<tr>
<td>Auto flammability (°C)</td>
<td>No</td>
</tr>
<tr>
<td>Explosion limits (% v/v)</td>
<td>1.1 - 7</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available.</td>
</tr>
</tbody>
</table>

Solubility

| Solubility in water           | Insoluble              |
| n-octanol/water coefficient   | No data available.     |

9.2. Other information

| Solubility in fat (g/L)       | No data available.     |

SECTION 10: Stability and reactivity

10.1. Reactivity
No data available

10.2. Chemical stability
The product is stable under the conditions, noted in the section “Handling and storage”.

10.3. Possibility of hazardous reactions
Nothing special
According to EC-Regulation 2015/830

10.4. Conditions to avoid
Avoid static electricity.

10.5. Incompatible materials
Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products
The product is not degraded when used as specified in section 1.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity
Substance: ethylbenzene
Species: Rabbit
Test: LD50
Route of exposure: Dermal
Result: 17800 mg/kg

Substance: ethylbenzene
Species: Rat
Test: LC50
Route of exposure: Inhalation
Result: 55000 mg/m³/2H

Substance: ethylbenzene
Species: Rat
Test: LD50
Route of exposure: Oral
Result: 3500 mg/kg

Substance: m-xylene  o-xylene  xylene  p-xylene
Species: Rabbit
Test: LD50
Route of exposure: Dermal
Result: >1700 mg/kg

Substance: m-xylene  o-xylene  xylene  p-xylene
Species: Rat
Test: LC50
Route of exposure: Inhalation
Result: 5000 ppm/4H

Substance: m-xylene  o-xylene  xylene  p-xylene
Species: Rat
Test: LD50
Route of exposure: Oral
Result: 4300 mg/kg bw

Skin corrosion/irritation
Causes skin irritation.

Serious eye damage/irritation
No data available.

Respiratory or skin sensitisation
No data available.

Germ cell mutagenicity
No data available.

Carcinogenicity
No data available.

Reproductive toxicity
No data available.

STOT-single exposure
No data available.

STOT-repeated exposure
May cause damage to organs through prolonged or repeated exposure.
According to EC-Regulation 2015/830

May cause damage to the hearing organs through prolonged or repeated exposure.

**Aspiration hazard**
May be fatal if swallowed and enters airways.

**Long term effects**
Neurotoxic effects: This product contains organic solvents, which may cause adverse effects to the nervous system. Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure.

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

### SECTION 12: Ecological information

12.1. **Toxicity**
No data available.

12.2. **Persistence and degradability**

<table>
<thead>
<tr>
<th>Substance</th>
<th>Biodegradability</th>
<th>Test</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>No data available.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

12.3. **Bioaccumulative potential**

<table>
<thead>
<tr>
<th>Substance</th>
<th>Potential bioaccumulation</th>
<th>LogPow</th>
<th>BCF</th>
</tr>
</thead>
<tbody>
<tr>
<td>No data available.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

12.4. **Mobility in soil**
No data available

12.5. **Results of PBT and vPvB assessment**
This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

12.6. **Other adverse effects**
This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.
This product contains substances, which may cause adverse long-term effects to the aquatic environment.

### SECTION 13: Disposal considerations

13.1. **Waste treatment methods**
Product is covered by the regulations on hazardous waste.

**Waste**

- EWC code

- Specific labelling
  Not applicable

**Contaminated packing**
Contaminated packaging must be disposed of similarly to the product.

### SECTION 14: Transport information

14.1 – 14.4
This product is within scope of the regulations of transport of dangerous goods.

**ADR/RID**

- **14.1. UN number** 1133
- **14.2. UN proper shipping name** ADHESIVES containing flammable liquid
- **14.3. Transport hazard class(es)** 3
- **14.4. Packing group** III
- **Notes** -
According to EC-Regulation 2015/830

<table>
<thead>
<tr>
<th>Tunnel restriction code</th>
<th>D/E</th>
</tr>
</thead>
</table>

**IMDG**

<table>
<thead>
<tr>
<th>UN-no.</th>
<th>1133</th>
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<tbody>
<tr>
<td>Proper Shipping Name</td>
<td>ADHESIVES containing flammable liquid</td>
</tr>
<tr>
<td>Class</td>
<td>3</td>
</tr>
<tr>
<td>PG*</td>
<td>III</td>
</tr>
<tr>
<td>EmS</td>
<td>F-E, S-D</td>
</tr>
<tr>
<td>MP**</td>
<td>no</td>
</tr>
<tr>
<td>Hazardous constituent</td>
<td>ETHYLBENZENE, XYLENE</td>
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</table>

**IATA/ICAO**

<table>
<thead>
<tr>
<th>UN-no.</th>
<th>1133</th>
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<tbody>
<tr>
<td>Proper Shipping Name</td>
<td>ADHESIVES containing flammable liquid</td>
</tr>
<tr>
<td>Class</td>
<td>3</td>
</tr>
<tr>
<td>PG*</td>
<td>III</td>
</tr>
</tbody>
</table>

14.5. Environmental hazards

-  

14.6. Special precautions for user

-  

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available

(*) Packing group

(**) Marine pollutant

**SECTION 15: Regulatory information**

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

**Restrictions for application**

People under the age of 18 shall not be exposed to this product cf. Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work. Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

**Demands for specific education**

-  

**Additional information**

Not applicable

**Seveso**

Seveso III Part 1: P5c

**Biocidal reg. no.**

Not applicable

**Sources**

Council Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding.


The Control of Major Accident Hazards (COMAH) Regulations 2015.
15.2. Chemical safety assessment

No

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3
- H225 - Highly flammable liquid and vapour.
- H226 - Flammable liquid and vapour.
- H302 - Harmful if swallowed.
- H304 - May be fatal if swallowed and enters airways.
- H312 - Harmful in contact with skin.
- H315 - Causes skin irritation.
- H332 - Harmful in contact with skin.
- H335 - May cause respiratory irritation.
- H336 - May cause drowsiness or dizziness.
- H373 - May cause damage to organs through prolonged or repeated exposure.
- H411 - Toxic to aquatic life with long lasting effects.
- H412 - Harmful to aquatic life with long lasting effects.

The full text of identified uses as mentioned in section 1

Additional label elements
- Not applicable

Other
- In accordance with Regulation (EC) No. 1272/2008 (CLP) the evaluation of the classification of the mixture is based on:
  - The classification of the mixture in regard of physical hazards has been based on experimental data.
  - The classification of the mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)
  - The classification of the mixture in regard of environmental hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The safety data sheet is validated by
- pipe/CHYMEIA

Date of last essential change
- (First cipher in SDS version) 2019-09-12(2.0)

Date of last minor change
- (Last cipher in SDS version) 2019-09-12