



## SAFETY DATA SHEET

### Tuskbond FD170 Aerosol

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.

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

##### 1.1. Product identifier

Product name Tuskbond FD170 Aerosol

Container size 500ml

EU REACH registration notes All chemicals used in this product have been registered under REACH where required.

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

Identified uses Adhesive.

Uses advised against Flexible PVC due to the risk of plasticiser migration.

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

Supplier Tuskbond  
Shelley Close  
Lowmoor Business Park  
Kirkby in Ashfield  
NG17 7JZ  
Tel: 01623 722661 (Mon-Fri 09:00-17:00)  
Fax: 01623 885971  
Email: SDS@sanglier.org.uk

##### 1.4. Emergency telephone number

Emergency telephone UK +44 (0) 1623 722661 (Mon-Fri 09:00-17:00)

National emergency telephone number IN AN EMERGENCY DIAL 999 / 112  
For non-emergencies, call NHS 111 (24/7) or a doctor

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

###### Classification (SI 2019 No. 720)

Physical hazards Aerosol 1 - H222, H229

Health hazards STOT SE 3 - H336

Environmental hazards Aquatic Chronic 2 - H411

##### 2.2. Label elements

###### Hazard pictograms



Signal word

Danger

## Tuskbond FD170 Aerosol

|   |   |
|---|---|
| <b>Hazard statements</b>                      | H222 Extremely flammable aerosol.<br>H229 Pressurised container: may burst if heated.<br>H336 May cause drowsiness or dizziness.<br>H411 Toxic to aquatic life with long lasting effects.   |
| <b>Precautionary statements</b>               | P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.<br>P211 Do not spray on an open flame or other ignition source.<br>P261 Avoid breathing vapour/ spray.<br>P271 Use only outdoors or in a well-ventilated area.<br>P273 Avoid release to the environment.<br>P251 Do not pierce or burn, even after use.<br>P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.<br>P501 Dispose of contents/ container in accordance with national regulations. |
| <b>Supplemental label information</b>         | EUH066 Repeated exposure may cause skin dryness or cracking.  |
| <b>Contains</b>                               | PENTANE, ACETONE  |
| <b>Supplementary precautionary statements</b> | P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.<br>P312 Call a POISON CENTRE/doctor if you feel unwell.<br>P391 Collect spillage.  |

### 2.3. Other hazards

This substance is not classified as PBT or vPvB according to current UK criteria. Containers should be thoroughly emptied before disposal because of the risk of an explosion. In use may form flammable/explosive vapour-air mixture. Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

|                          |                      |
|--------------------------|----------------------|
| <b>DIMETHYL ETHER</b>    | <b>30-60%</b>        |
| CAS number: 115-10-6     | EC number: 204-065-8 |
| <b>Classification</b>    |                      |
| Flam. Gas 1A - H220      |                      |
| Press. Gas (Liq.) - H280 |                      |
| <b>PENTANE</b>           | <b>30-60%</b>        |
| CAS number: 109-66-0     | EC number: 203-692-4 |
| <b>Classification</b>    |                      |
| Flam. Liq. 1 - H224      |                      |
| STOT SE 3 - H336         |                      |
| Asp. Tox. 1 - H304       |                      |
| Aquatic Chronic 2 - H411 |                      |

## Tuskbond FD170 Aerosol

|   |                      |
|---|----------------------|
| <b>ACETONE</b>  | <b>1-5%</b>          |
| CAS number: 67-64-1   | EC number: 200-662-2 |
| <b>Classification</b><br>Flam. Liq. 2 - H225<br>Eye Irrit. 2 - H319<br>STOT SE 3 - H336 |                      |

The full text for all hazard statements is displayed in Section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

|                                   |   |
|-----------------------------------|---|
| <b>General information</b>        | Move affected person to fresh air at once. Show this Safety Data Sheet to the medical personnel.  |
| <b>Inhalation</b>                 | Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Keep affected person under observation. If breathing stops, provide artificial respiration. Get medical attention immediately.                           |
| <b>Ingestion</b>                  | Rinse mouth thoroughly with water. Get medical attention. Do not induce vomiting.   |
| <b>Skin contact</b>               | Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.  |
| <b>Eye contact</b>                | Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing. If adhesive bonding occurs, do not force eyelids apart. |
| <b>Protection of first aiders</b> | First aid personnel should wear appropriate protective equipment during any rescue.   |

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

|                            |  |
|----------------------------|--|
| <b>General information</b> | The severity of the symptoms described will vary dependent on the concentration and the length of exposure. Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.             |
| <b>Inhalation</b>          | Coughing, chest tightness, feeling of chest pressure. Overexposure to organic solvents may depress the central nervous system, causing dizziness and intoxication and, at very high concentrations, unconsciousness and death. |
| <b>Ingestion</b>           | Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract.   |
| <b>Skin contact</b>        | Prolonged contact may cause redness, irritation and dry skin. Product has a defatting effect on skin.  |
| <b>Eye contact</b>         | May cause eye irritation. Profuse watering of the eyes.  |

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

|                            |   |
|----------------------------|---|
| <b>Specific treatments</b> | If adhesive bonding occurs, do not force eyelids apart. |
|----------------------------|---|

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

|                                       |  |
|---------------------------------------|--|
| <b>Suitable extinguishing media</b>   | Water spray, dry powder or carbon dioxide. Alcohol-resistant foam.     |
| <b>Unsuitable extinguishing media</b> | Do not use water jet as an extinguisher, as this will spread the fire. |

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

## Tuskbond FD170 Aerosol

|  |   |
|--|---|
| <b>Specific hazards</b>                              | Containers can burst violently or explode when heated, due to excessive pressure build-up. Forms explosive mixtures with air. May explode when heated or when exposed to flames or sparks. Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back. Bursting aerosol containers may be propelled from a fire at high speed. |
| <b>Hazardous combustion products</b>                 | Oxides of carbon. Acrid smoke or fumes.   |
| <b>5.3. Advice for firefighters</b>                  |   |
| <b>Protective actions during firefighting</b>        | Use water to keep fire exposed containers cool and disperse vapours. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak. Control run-off water by containing and keeping it out of sewers and watercourses. Keep upwind to avoid inhalation of gases, vapours, fumes and smoke.  |
| <b>Special protective equipment for firefighters</b> | Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.   |

### SECTION 6: Accidental release measures

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

**Personal precautions** Wear protective clothing as described in Section 8 of this safety data sheet. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Avoid contact with eyes and prolonged skin contact. No smoking, sparks, flames or other sources of ignition near spillage.

**For non-emergency personnel** For the greatest protection, clothing should include anti-static overalls, boots and gloves.

**For emergency responders** For the greatest protection, clothing should include anti-static overalls, boots and gloves.

#### 6.2. Environmental precautions

**Environmental precautions** Contain spillage with sand, earth or other suitable non-combustible material.

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

**Methods for cleaning up** Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Absorb in vermiculite, dry sand or earth and place into containers. Avoid the spillage or runoff entering drains, sewers or watercourses. Collect spillage for reclamation or disposal in sealed containers via a licensed waste contractor. Avoid water contacting spilled material or leaking containers. Approach the spillage from upwind. Take precautionary measures against static discharge. Use only non-sparking tools. Do not allow material to enter confined spaces, due to the risk of explosion.

#### 6.4. Reference to other sections

**Reference to other sections** For personal protection, see Section 8. For waste disposal, see Section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

**Usage precautions** Keep away from heat, sparks and open flame. Static electricity and formation of sparks must be prevented. Wear protective clothing as described in Section 8 of this safety data sheet. Read and follow manufacturer's recommendations. Do not use in confined spaces without adequate ventilation and/or respirator. Do not eat, drink or smoke when using this product.

**Advice on general occupational hygiene** Do not eat, drink or smoke when using this product. Remove contaminated clothing and protective equipment before entering eating areas. Wash after use and before eating, smoking and using the toilet. Do not smoke in work area. Clean equipment and the work area every day.

## Tuskbond FD170 Aerosol

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

**Storage precautions** Under normal conditions of handling and storage, spillages from aerosol containers are unlikely. Store in tightly-closed, original container in a dry, cool and well-ventilated place. Store at temperatures not exceeding 50°C.

**Storage class** Extremely Flammable Aerosol

### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters

#### Occupational exposure limits

##### **DIMETHYL ETHER**

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1920 mg/m<sup>3</sup>

##### **PENTANE**

Long-term exposure limit (8-hour TWA): WEL 600 ppm 1800 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL

##### **ACETONE**

Long-term exposure limit (8-hour TWA): WEL 500 ppm 1210 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 1500 ppm 3620 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit.

#### **DIMETHYL ETHER (CAS: 115-10-6)**

**PNEC**

- Fresh water; 0,155 mg/l
- Intermittent release, Water; 1,549 mg/l
- Water; 160 mg/l
- marine water; 0,016 mg/l
- Sediment (Freshwater); 0,681 mg/l
- Sediment (Marinewater); 0,069 mg/l
- Soil; 0,045 mg/l

#### **PENTANE (CAS: 109-66-0)**

**DNEL**

- Industry - Dermal; Long term systemic effects: 432 mg/kg/day
- Industry - Inhalation; Long term systemic effects: 3 mg/m<sup>3</sup>
- Consumer - Dermal; Long term systemic effects: 214 mg/kg/day
- Consumer - Inhalation; Long term systemic effects: 643 mg/m<sup>3</sup>
- Consumer - Oral; Long term systemic effects: 214 mg/kg/day

#### **ACETONE (CAS: 67-64-1)**

**DNEL**

- Workers - Dermal; Long term : 186 mg/kg/day
- Workers - Inhalation; Short term : 2420 mg/m<sup>3</sup>
- Workers - Inhalation; Long term : 1210 mg/m<sup>3</sup>
- Consumer - Oral; Long term : 62 mg/kg/day
- Consumer - Dermal; Long term : 62 mg/kg/day
- Consumer - Inhalation; Long term : 200 mg/m<sup>3</sup>

## Tuskbond FD170 Aerosol

### PNEC

Fresh water; 10.6 mg/l  
 marine water; 1.06 mg/l  
 Intermittent release; 21 mg/l  
 Sediment (Freshwater); 30.4 mg/kg/day  
 Sediment (Marinewater); 3.04 mg/kg/day  
 Soil; 33.3 mg/kg/day  
 STP; 100 mg/l

### 8.2. Exposure controls

#### Protective equipment



#### Appropriate engineering controls

Provide adequate ventilation. Ensure that the direction of airflow is clearly away from the worker. Use approved respirator if air contamination is above an acceptable level. Observe any occupational exposure limits for the product or ingredients. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof electrical, ventilating and lighting equipment. Ensure operatives are trained to minimise exposure.

#### Personal protection

Wear protective clothing.

#### Eye/face protection

Wear chemical splash goggles. Personal protective equipment that provides appropriate eye and face protection should be worn.

#### Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. To protect hands from chemicals, wear gloves that are proven to be impervious to the chemical and resist degradation. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. The breakthrough time for any glove material may be different for different glove manufacturers. It is recommended that gloves are made of the following material: Laminate of polyethylene and ethylene vinyl alcohol (PE/EVOH).

#### Other skin and body protection

Provide eyewash station. Avoid contact with skin. Wear suitable coveralls to prevent exposure to the skin.

#### Hygiene measures

Promptly remove any clothing that becomes contaminated. Wash promptly if skin becomes contaminated. When using do not eat, drink or smoke. Use appropriate hand lotion to prevent defatting and cracking of skin. Wash at the end of each work shift and before eating, smoking and using the toilet.

#### Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn. In confined or poorly-ventilated spaces, a supplied-air respirator must be worn. Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Wear a respirator fitted with the following cartridge: Gas filter, type AX.

#### Thermal hazards

Spray will evaporate and cool rapidly and may cause frostbite or cold burns if in contact with skin.

#### Environmental exposure controls

Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

### SECTION 9: Physical and chemical properties

## Tuskbond FD170 Aerosol

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

|   |   |
|---|---|
| <b>Appearance</b>                                   | Aerosol.  |
| <b>Colour</b>                                       | Amber. Blue.  |
| <b>Odour</b>  | Aromatic hydrocarbons.  |
| <b>Odour threshold</b>                              | Data lacking.   |
| <b>pH</b>   | pH (concentrated solution): 7-8   |
| <b>Melting point</b>                                | Data lacking.   |
| <b>Initial boiling point and range</b>              | Dimethyl ether: -25°C<br>Pentane: 35°C<br>Acetone: 56°C   |
| <b>Flash point</b>                                  | No information required. A flash point method is not available for aerosols, but the major hazardous component, the propellant (dimethyl ether) has a flash point of <-41°C with flammability limits of 3.3% vol. upper and 26.2% vol. lower. |
| <b>Evaporation rate</b>                             | Not available.  |
| <b>Evaporation factor</b>                           | Not available.  |
| <b>Flammability (solid, gas)</b>                    | No information required.  |
| <b>Upper/lower flammability or explosive limits</b> | Not available.  |
| <b>Other flammability</b>                           | No specific test data are available.  |
| <b>Vapour pressure</b>                              | 3 - 6 bar @ 20°C  |
| <b>Vapour density</b>                               | Not available.  |
| <b>Relative density</b>                             | Liquid base: 0.75 @ 20°C  |
| <b>Bulk density</b>                                 | Not applicable.   |
| <b>Solubility(ies)</b>                              | Insoluble in water.   |
| <b>Partition coefficient</b>                        | Not available.  |
| <b>Auto-ignition temperature</b>                    | Dimethyl ether: 226°C   |
| <b>Decomposition Temperature</b>                    | Not available.  |
| <b>Viscosity</b>                                    | Liquid base: 200 - 1000 mm <sup>2</sup> /s @ 20°C   |
| <b>Explosive properties</b>                         | In use may form flammable/explosive vapour-air mixture.   |
| <b>Explosive under the influence of a flame</b>     | Yes   |
| <b>Oxidising properties</b>                         | Does not meet the criteria for classification as oxidising.   |

### 9.2. Other information

|                                  |  |
|----------------------------------|--|
| <b>Particle size</b>             | No information required.                             |
| <b>Volatile organic compound</b> | This product contains a maximum VOC content of 81 %. |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

|                   |   |
|-------------------|---|
| <b>Reactivity</b> | There are no known reactivity hazards associated with this product. |
|-------------------|---|

## Tuskbond FD170 Aerosol

### 10.2. Chemical stability

**Stability** Stable at normal ambient temperatures and when used as recommended. Highly volatile.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** Will not polymerise. In use may form flammable/explosive vapour-air mixture. The following materials may react violently with the product: Oxidising materials.

### 10.4. Conditions to avoid

**Conditions to avoid** Avoid heat, flames and other sources of ignition. Containers can burst violently or explode when heated, due to excessive pressure build-up. Avoid the accumulation of vapours in low or confined areas.

### 10.5. Incompatible materials

**Materials to avoid** Strong oxidising agents.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Oxides of carbon.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity - oral

**Summary** Based on available data the classification criteria are not met.

#### Acute toxicity - dermal

**Summary** Based on available data the classification criteria are not met.

#### Acute toxicity - inhalation

**Summary** Based on available data the classification criteria are not met.

#### Skin corrosion/irritation

**Summary** Repeated exposure may cause skin dryness or cracking.

#### Serious eye damage/irritation

**Summary** Based on available data the classification criteria are not met.

#### Respiratory sensitisation

**Summary** Based on available data the classification criteria are not met.

#### Skin sensitisation

**Summary** Based on available data the classification criteria are not met.

#### Germ cell mutagenicity

**Summary** Based on available data the classification criteria are not met.

#### Carcinogenicity

**Summary** Based on available data the classification criteria are not met.

#### Reproductive toxicity

**Summary** Based on available data the classification criteria are not met.

#### Specific target organ toxicity - single exposure

**Summary** May cause drowsiness or dizziness.

#### Target organs

Central nervous system

#### Specific target organ toxicity - repeated exposure



## Tuskbond FD170 Aerosol

**Summary** Based on available data the classification criteria are not met.

### Aspiration hazard

**Summary** Based on available data the classification criteria are not met.

### Toxicological information on ingredients.

#### DIMETHYL ETHER

##### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** Not applicable.

##### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** Not applicable.

##### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** 164000 ppm, Inhalation, Rat

##### Skin corrosion/irritation

**Skin corrosion/irritation** Based on available data the classification criteria are not met.

##### Serious eye damage/irritation

**Serious eye damage/irritation** Based on available data the classification criteria are not met.

##### Respiratory sensitisation

**Respiratory sensitisation** Based on available data the classification criteria are not met.

##### Skin sensitisation

**Skin sensitisation** Based on available data the classification criteria are not met.

##### Germ cell mutagenicity

**Genotoxicity - in vitro** Based on available data the classification criteria are not met.

**Genotoxicity - in vivo** Based on available data the classification criteria are not met.

##### Carcinogenicity

**Carcinogenicity** Based on available data the classification criteria are not met.

##### Reproductive toxicity

**Reproductive toxicity - fertility** This substance has no evidence of toxicity to reproduction.

##### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** Based on available data the classification criteria are not met.

##### **Skin contact**

Spray will evaporate and cool rapidly and may cause frostbite or cold burns if in contact with skin.

##### **Medical symptoms**

Symptoms following overexposure may include the following: Arrhythmia (deviation from normal heart beat).

#### PENTANE

##### Acute toxicity - oral

## Tuskbond FD170 Aerosol

|  |  |
|--|--|
| <b>Acute toxicity oral (LD<sub>50</sub> mg/kg)</b>               | 2.0  |
| <b>Species</b>   | Rat  |
| <b><u>Acute toxicity - inhalation</u></b>                        |  |
| <b>Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l)</b>  | 25.3   |
| <b>Species</b>   | Rat  |
| <b>ATE inhalation (vapours mg/l)</b>                             | 25.3   |
| <b><u>Respiratory sensitisation</u></b>                          |  |
| <b>Respiratory sensitisation</b>                                 | Based on available data the classification criteria are not met. |
| <b><u>Skin sensitisation</u></b>                                 |  |
| <b>Skin sensitisation</b>  | Based on available data the classification criteria are not met. |
| <b><u>Germ cell mutagenicity</u></b>                             |  |
| <b>Genotoxicity - in vitro</b>                                   | Based on available data the classification criteria are not met. |
| <b>Genotoxicity - in vivo</b>                                    | Based on available data the classification criteria are not met. |
| <b><u>Carcinogenicity</u></b>                                    |  |
| <b>Carcinogenicity</b>   | Based on available data the classification criteria are not met. |
| <b><u>Reproductive toxicity</u></b>                              |  |
| <b>Reproductive toxicity - fertility</b>                         | Based on available data the classification criteria are not met. |
| <b><u>Specific target organ toxicity - repeated exposure</u></b> |  |
| <b>STOT - repeated exposure</b>                                  | Based on available data the classification criteria are not met. |
| <b><u>Aspiration hazard</u></b>                                  |  |
| <b>Aspiration hazard</b>   | May be fatal if swallowed and enters airways.                    |
| .  |  |
| <b>Skin contact</b>  | Repeated exposure may cause skin dryness or cracking.            |
| <b>Eye contact</b>   | May cause discomfort.  |

### ACETONE

|  |   |
|--|---|
| <b>Toxicological effects</b>                         | The toxicity of this substance has been assessed during REACH registration. |
| <b><u>Acute toxicity - oral</u></b>                  |   |
| <b>Acute toxicity oral (LD<sub>50</sub> mg/kg)</b>   | 5,800.0   |
| <b>Species</b>                                       | Rat   |
| <b>ATE oral (mg/kg)</b>                              | 5,800.0   |
| <b><u>Acute toxicity - dermal</u></b>                |   |
| <b>Acute toxicity dermal (LD<sub>50</sub> mg/kg)</b> | 15,800.0  |

## Tuskbond FD170 Aerosol

|  |   |
|--|---|
| <b>Species</b>   | Rat   |
| <b>ATE dermal (mg/kg)</b>  | 15,800.0  |
| <b><u>Acute toxicity - inhalation</u></b>                        |   |
| <b>Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l)</b>  | 76.0  |
| <b>Species</b>   | Rat   |
| <b>ATE inhalation (vapours mg/l)</b>                             | 76.0  |
| <b><u>Skin corrosion/irritation</u></b>                          |   |
| <b>Skin corrosion/irritation</b>                                 | Repeated exposure may cause skin dryness or cracking.                                     |
| <b><u>Serious eye damage/irritation</u></b>                      |   |
| <b>Serious eye damage/irritation</b>                             | Causes serious eye irritation.  |
| <b><u>Skin sensitisation</u></b>                                 |   |
| <b>Skin sensitisation</b>  | Not sensitising. Guinea pig   |
| <b><u>Germ cell mutagenicity</u></b>                             |   |
| <b>Genotoxicity - in vitro</b>                                   | Gene mutation: Negative.  |
| <b>Genotoxicity - in vivo</b>                                    | Micronucleus assay: Negative.   |
| <b><u>Reproductive toxicity</u></b>                              |   |
| <b>Reproductive toxicity - development</b>                       | No evidence of reproductive toxicity in animal studies.                                   |
| <b><u>Specific target organ toxicity - repeated exposure</u></b> |   |
| <b>STOT - repeated exposure</b>                                  | NOAEL 900 mg/kg/90d bw/d, Oral, Rat<br>NOAEC 22500 mg/m <sup>3</sup> /8w, Inhalation, Rat |

### SECTION 12: Ecological information

**Ecotoxicity** Avoid the spillage or runoff entering drains, sewers or watercourses. The product contains substances which are toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

#### 12.1. Toxicity

**Toxicity** Toxic to aquatic life with long lasting effects.

#### Ecological information on ingredients.

#### DIMETHYL ETHER

##### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: >4000 mg/l, Poecilia reticulata (Guppy)

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: >4000 mg/l, Daphnia magna  
LC<sub>50</sub>, 48 hours: 755,549 mg/l, Daphnia magna

#### PENTANE

##### Acute aquatic toxicity

## Tuskbond FD170 Aerosol

|   |   |
|---|---|
| <b>Acute toxicity - fish</b>                  | LC <sub>50</sub> , 96 hours: 4.26 mg/l, Oncorhynchus mykiss (Rainbow trout)                             |
| <b>Acute toxicity - aquatic invertebrates</b> | EC <sub>50</sub> , 48 hours: 2.7 mg/l, Daphnia magna  |
| <b>Acute toxicity - aquatic plants</b>        | NOEC, 72 hours: 7.51 mg/l, Freshwater algae<br>EC <sub>50</sub> , 72 hours: 10.7 mg/l, Freshwater algae |

### ACETONE

#### Acute aquatic toxicity

|   |  |
|---|--|
| <b>Acute toxicity - fish</b>                  | LC <sub>50</sub> , 96 hours: 5540 mg/l, Oncorhynchus mykiss (Rainbow trout)          |
| <b>Acute toxicity - aquatic invertebrates</b> | EC <sub>50</sub> , 48 hours: 8800 mg/l, Daphnia magna                                |
| <b>Acute toxicity - aquatic plants</b>        | NOEC, 8 hours: 530 mg/l/8 d, Algae   |
| <b>Acute toxicity - microorganisms</b>        | EC <sub>12</sub> , 30 min: 1000 mg/l, Activated sludge                               |
| <b>Acute toxicity - terrestrial</b>           | LD <sub>50</sub> , 48 hours: 0.1 - 1 mg/cm <sup>2</sup> , Eisenia Fetida (Earthworm) |

#### Chronic aquatic toxicity

|   |   |
|---|---|
| <b>Chronic toxicity - aquatic invertebrates</b> | NOEC, 28 days: 2212 mg/l, Daphnia magna |
|---|---|

### 12.2. Persistence and degradability

**Persistence and degradability** No data available.

#### Ecological information on ingredients.

### DIMETHYL ETHER

|                                      |                            |
|--------------------------------------|----------------------------|
| <b>Persistence and degradability</b> | Not readily biodegradable. |
|--------------------------------------|----------------------------|

### PENTANE

|                                      |   |
|--------------------------------------|---|
| <b>Persistence and degradability</b> | The product is biodegradable. Volatile substances are degraded in the atmosphere within a few days. |
|--------------------------------------|---|

### ACETONE

|                                      |                                       |
|--------------------------------------|---------------------------------------|
| <b>Persistence and degradability</b> | The product is readily biodegradable. |
| <b>Biodegradation</b>                | Water - Degradation 91: 28 days       |
| <b>Chemical oxygen demand</b>        | 2.21 g O <sub>2</sub> /g substance    |

### 12.3. Bioaccumulative potential

|                                  |                                       |
|----------------------------------|---------------------------------------|
| <b>Bioaccumulative potential</b> | No data available on bioaccumulation. |
| <b>Partition coefficient</b>     | Not available.                        |

#### Ecological information on ingredients.

### DIMETHYL ETHER

## Tuskbond FD170 Aerosol

**Bioaccumulative potential** No data available on bioaccumulation.

### PENTANE

**Bioaccumulative potential** Not determined.

### ACETONE

**Bioaccumulative potential** BCF: 3, Estimated value.

#### 12.4. Mobility in soil

**Mobility** The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.

#### Ecological information on ingredients.

### DIMETHYL ETHER

**Mobility** Koc: 7,759

### PENTANE

**Mobility** The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.

### ACETONE

**Mobility** Mobile.

**Adsorption/desorption coefficient** Soil - Kd: 1.5 L/kg @ 20°C

**Henry's law constant** 2.929 - 2.070 Pa m<sup>3</sup>/mol @ 25°C water  
3.311 Pa m<sup>3</sup>/mol @ 25°C marine water

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

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

#### Ecological information on ingredients.

### DIMETHYL ETHER

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current UK criteria.

### PENTANE

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current UK criteria.

### ACETONE

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current UK criteria.

#### 12.6. Other adverse effects

## Tuskbond FD170 Aerosol

**Other adverse effects** None known.

### Ecological information on ingredients.

#### PENTANE

**Other adverse effects** None known.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

|                            |   |
|----------------------------|---|
| <b>General information</b> | Ensure containers are empty before discarding (explosion risk). Do not puncture or incinerate, even when empty. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. |
| <b>Disposal methods</b>    | Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.   |
| <b>Waste class</b>         | Empty Aerosol: 15 01 10 (Containing hazardous residues), Empty Aerosol: 15 01 04 (No hazardous residues). Full or Partially Empty Aerosol: 16 05 04,  |

### SECTION 14: Transport information

#### 14.1. UN number

|                         |      |
|-------------------------|------|
| <b>UN No. (ADR/RID)</b> | 1950 |
| <b>UN No. (IMDG)</b>    | 1950 |
| <b>UN No. (ICAO)</b>    | 1950 |
| <b>UN No. (ADN)</b>     | 1950 |

#### 14.2. UN proper shipping name

|                                       |                                      |
|---------------------------------------|--------------------------------------|
| <b>Proper shipping name (ADR/RID)</b> | AEROSOLS                             |
| <b>Proper shipping name (IMDG)</b>    | AEROSOLS, MARINE POLLUTANT (PENTANE) |
| <b>Proper shipping name (ICAO)</b>    | AEROSOLS                             |
| <b>Proper shipping name (ADN)</b>     | AEROSOLS                             |

#### 14.3. Transport hazard class(es)

|                                    |     |
|------------------------------------|-----|
| <b>ADR/RID class</b>               | 2.1 |
| <b>ADR/RID classification code</b> | 5F  |
| <b>ADR/RID label</b>               | 2.1 |
| <b>IMDG class</b>                  | 2.1 |
| <b>ICAO class/division</b>         | 2.1 |
| <b>ADN class</b>                   | 2.1 |

#### **Transport labels**



#### 14.4. Packing group

Not applicable.

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### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



### 14.6. Special precautions for user

IMDG Code segregation group SG69, SW1, SW22

EmS F-D, S-U

ADR transport category 2

Tunnel restriction code (D)

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

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

## SECTION 15: Regulatory information

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

**National regulations** Control of Substances Hazardous to Health Regulations 2002 (as amended). Health and Safety at Work etc. Act 1974 (as amended).

**Authorisations (SI 2020 No. 1577 Annex XIV)** No specific authorisations are known for this product.

**Restrictions (SI 2020 No. 1577 Annex XVII)** No specific restrictions on use are known for this product.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

### Inventories

#### **EU - EINECS/ELINCS**

All the ingredients are listed or exempt.

#### **Canada - DSL/NDSL**

All the ingredients are listed or exempt.

#### **US - TSCA**

All the ingredients are listed or exempt.

#### **US - TSCA 12(b) Export Notification**

None of the ingredients are listed or exempt.

#### **Australia - AIC**

All the ingredients are listed or exempt.

#### **Japan - ENCS**

All the ingredients are listed or exempt.

#### **Korea - KECI**

All the ingredients are listed or exempt.

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### China - IECSC

All the ingredients are listed or exempt.

### Philippines – PICCS

All the ingredients are listed or exempt.

### New Zealand - NZIOC

All the ingredients are listed or exempt.

### Taiwan - TCSI

All the ingredients are listed or exempt.

## SECTION 16: Other information

|   |  |
|---|--|
| <b>Classification procedures according to SI 2019 No. 720</b> | Aerosol 1 - H222, H229: Expert judgement. STOT SE 3 - H336: Calculation method. Aquatic Chronic 2 - H411: Calculation method.  |
| <b>Issued by</b>  | Technical Department   |
| <b>Revision date</b>  | 08/02/2021   |
| <b>Revision</b>   | 2.1  |
| <b>Supersedes date</b>  | 28/02/2017   |
| <b>SDS number</b>   | 21279  |
| <b>Hazard statements in full</b>                              | H220 Extremely flammable gas.<br>H222 Extremely flammable aerosol.<br>H224 Extremely flammable liquid and vapour.<br>H225 Highly flammable liquid and vapour.<br>H229 Pressurised container: may burst if heated.<br>H280 Contains gas under pressure; may explode if heated.<br>H304 May be fatal if swallowed and enters airways.<br>H319 Causes serious eye irritation.<br>H336 May cause drowsiness or dizziness.<br>H411 Toxic to aquatic life with long lasting effects. |

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.