

# SAFETY DATA SHEET

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Date: 19.12.2016

Replaces: } ðe

Ref: 0H €€CT/DL

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

### 1.1. Product identifier

**Product name:** Uaç^!•âT a^A[ } aã \* Â•c{ AÇa @•ã^D

**REACH registered number(s):** 01-2119527766-29-XXXX

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

**Use of substance / mixture:** PC1: Adhesives, sealants.

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

**Company name:** Siroflex Limited  
Dodworth Business Park  
Dodworth  
Barnsley  
South Yorkshire  
S75 3SP

**Tel:** 01226 771600

**Fax:** 01226 771601

**Web:** [www.siroflex.co.uk](http://www.siroflex.co.uk)

### 1.4. Emergency telephone number

**Emergency Tel:** 01226 771600  
(Office hours only)

## Section 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification under CLP:** STOT SE 3: H335; Eye Irrit. 2: H319; Skin Irrit. 2: H315; -: EUH202

**Most important adverse effects:** Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.

### 2.2. Label elements

#### Label elements:

**Hazard statements:** H315: Causes skin irritation.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

EUH202: Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.

**Hazard pictograms:** GHS07: Exclamation mark

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**Signal words:** Warning

**Precautionary statements:** P261: Avoid breathing dust/fumes/gas/mist/vapours/spray.  
P271: Use only outdoors or in a well-ventilated area.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P312: Call a POISON CENTER/doctor//if you feel unwell.

## 2.3. Other hazards

**PBT:** This product is not identified as a PBT/vPvB substance.

## Section 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous ingredients:

ETHYL-2-CYANOACRYLATE

EINECS	CAS	PBT / WEL	CLP Classification	Percent
230-391-5	7085-85-0	-	Eye Irrit. 2: H319; STOT SE 3: H335; Skin Irrit. 2: H315	>90%

#### Non-classified ingredients:

HYDROQUINONE

EINECS	CAS	CHIP Classification	CLP Classification	Percent
204-617-8	123-31-9	-	Carc. 2: H351; Muta. 2: H341; Acute Tox. 4: H302; Eye Dam. 1: H318; Skin Sens. 1: H317; Aquatic Acute 1: H400	<1%

## Section 4: First aid measures

### 4.1. Description of first aid measures

**Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.

**Eye contact:** Bathe the eye with running water for 15 minutes. Consult a doctor.

**Ingestion:** Wash out mouth with water. Consult a doctor.

**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

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

**Skin contact:** There may be irritation and redness at the site of contact.

**Eye contact:** There may be irritation and redness. The eyes may water profusely.

**Ingestion:** There may be soreness and redness of the mouth and throat.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

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

**Immediate / special treatment:** Eye bathing equipment should be available on the premises.

## Section 5: Fire-fighting measures

### 5.1. Extinguishing media

**Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

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

**Exposure hazards:** In combustion emits toxic fumes.

### 5.3. Advice for fire-fighters

**Advice for fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

## Section 6: Accidental release measures

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

**Personal precautions:** Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.

### 6.2. Environmental precautions

**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.

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

**Clean-up procedures:** Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

### 6.4. Reference to other sections

**Reference to other sections:** Refer to section 8 of SDS.

## Section 7: Handling and storage

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## 7.1. Precautions for safe handling

**Handling requirements:** Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area.  
Do not handle in a confined space. Avoid the formation or spread of mists in the air.

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

**Storage conditions:** Store in a cool, well ventilated area. Keep container tightly closed.  
**Suitable packaging:** Polyethylene.

## 7.3. Specific end use(s)

**Specific end use(s):** No data available.

## Section 8: Exposure controls/personal protection

### 8.1. Control parameters

**Hazardous ingredients:**

**ETHYL-2-CYANOACRYLATE**

**Workplace exposure limits:**

**Respirable dust**

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	-	1.5 mg/m <sup>3</sup>	-	-

### DNEL/PNEC Values

**DNEL / PNEC** No data available.

### 8.2. Exposure controls

**Engineering measures:** Ensure there is sufficient ventilation of the area.

**Respiratory protection:** Self-contained breathing apparatus must be available in case of emergency.

**Hand protection:** Protective gloves.

**Eye protection:** Safety glasses. Ensure eye bath is to hand.

**Skin protection:** Protective clothing.

## Section 9: Physical and chemical properties

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

**State:** Liquid

**Colour:** Colourless

**Odour:** Characteristic odour

**Evaporation rate:** No data available.

**Oxidising:** No data available.

**Solubility in water:** Reacts with water.

**Also soluble in:** Acetone.

**Viscosity:** Viscous

**Kinematic viscosity:** 1200-1500

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**Viscosity test method:** Cone and Plate @ 25°C (CPs)

**Boiling point/range°C:** >149

**Melting point/range°C:** No data available.

**Flammability limits %: lower:** No data available.

**upper:** No data available.

**Flash point°C:** 80-93.4

**Part.coeff. n-octanol/water:** No data available.

**Autoflammability°C:** 450

**Vapour pressure:** <700 mbar

**Relative density:** 1.05

**pH:** Not applicable.

**VOC g/l:** <20

## 9.2. Other information

**Other information:** No data available.

## Section 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity:** Stable under recommended transport or storage conditions.

### 10.2. Chemical stability

**Chemical stability:** Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

**Hazardous reactions:** Hazardous reactions will not occur under normal transport or storage conditions.  
Decomposition may occur on exposure to conditions or materials listed below.

### 10.4. Conditions to avoid

**Conditions to avoid:** Moist air. Heat.

### 10.5. Incompatible materials

**Materials to avoid:** Water. Strong oxidising agents. Strong acids.

### 10.6. Hazardous decomposition products

**Haz. decomp. products:** In combustion emits toxic fumes.

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

#### Toxicity values:

Route	Species	Test	Value	Units
DERMAL	RBT	LD50	>2000	mg/kg
ORAL	RAT	LD50	>5000	mg/kg

**Hazardous ingredients:**

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## ETHYL-2-CYANOACRYLATE

ORL	RAT	LD50	>5	ml/kg
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### Relevant hazards for substance:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated
STOT-single exposure	INH	Hazardous: calculated

### Symptoms / routes of exposure

**Skin contact:** There may be irritation and redness at the site of contact.

**Eye contact:** There may be irritation and redness. The eyes may water profusely.

**Ingestion:** There may be soreness and redness of the mouth and throat.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

## Section 12: Ecological information

### 12.1. Toxicity

**Ecotoxicity values:** No data available.

### 12.2. Persistence and degradability

**Persistence and degradability:** Biodegradable.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential:** No bioaccumulation potential.

### 12.4. Mobility in soil

**Mobility:** Readily absorbed into soil.

### 12.5. Results of PBT and vPvB assessment

**PBT identification:** This product is not identified as a PBT/vPvB substance.

### 12.6. Other adverse effects

**Other adverse effects:** Negligible ecotoxicity.

## Section 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal operations:** Transfer to a suitable container and arrange for collection by specialised disposal company.

**Waste code number:** 08 04 09

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

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## Section 14: Transport information

### 14.1. UN number

UN number: UN3334

### 14.2. UN proper shipping name

Shipping name: AVIATION REGULATED LIQUID, N.O.S.  
(ETHYL-2-CYANOACRYLATE)

### 14.3. Transport hazard class(es)

Transport class: 9

### 14.4. Packing group

Packing group: III

### 14.5. Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

### 14.6. Special precautions for user

Special precautions: No special precautions.

## Section 15: Regulatory information

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

### 15.2. Chemical Safety Assessment

## Section 16: Other information

### Other information

**Other information:** This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

\* indicates text in the SDS which has changed since the last revision.

**Phrases used in s.2 and s.3:** EUH202: Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.

H302: Harmful if swallowed.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

H341: Suspected of causing genetic defects <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H351: Suspected of causing cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H400: Very toxic to aquatic life.

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**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.



# SAFETY DATA SHEET

## Silversil Mitre Bonding System (Activator)

According to Regulation (EC) No 1907/2006, Annex II

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

#### 1.1. Product identifier

**Product name** Mitre Bonding System 2% (Activator)  
**Container size** 200ml

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

**Identified uses** Activator For Cyanoacrylate Adhesives

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

**Supplier** www.siroflex.co.uk  
 Siroflex Limited  
 Dodworth Business Park  
 Dodworth  
 Barnsley  
 S75 3SP

Tel: 01226771600  
 Fax: 01226771601  
 info@siroflex.co.uk

#### 1.4. Emergency telephone number

**Emergency telephone** Siroflex Ltd. ++44 (0) 1226 771 600 (Mon-Fri 09:00-17:00)

### SECTION 2: Hazards identification

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

##### Classification

**Physical hazards** Aerosol 1 - H222, H229  
**Health hazards** Skin Irrit. 2 - H315 STOT SE 3 - H336  
**Environmental hazards** Aquatic Chronic 2 - H411

**Classification (67/548/EEC or 1999/45/EC)** Xi;R38. F+;R12. N;R51/53. R67.

**Environmental** The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

#### 2.2. Label elements

##### Pictogram



##### Signal word

Danger

##### Hazard statements

H222 Extremely flammable aerosol.  
 H229 Pressurised container: may burst if heated  
 H336 May cause drowsiness or dizziness.  
 H315 Causes skin irritation.  
 H411 Toxic to aquatic life with long lasting effects.

## Silversil Mitre Bonding System (Activator)

<b>Precautionary statements</b>	<p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P211 Do not spray on an open flame or other ignition source.</p> <p>P251 Do not pierce or burn, even after use.</p> <p>P261 Avoid breathing vapour/spray.</p> <p>P271 Use only outdoors or in a well-ventilated area.</p> <p>P280 Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P405 Store locked up.</p> <p>P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.</p> <p>P501 Dispose of contents/container in accordance with national regulations.</p>
<b>Supplemental label information</b>	<p>Please refer to Safety Data Sheet.</p> <p>EUH018 In use may form flammable/explosive vapour-air mixture.</p>
<b>Contains</b>	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane
<b>Supplementary precautionary statements</b>	<p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P273 Avoid release to the environment.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water.</p> <p>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P312 Call a POISON CENTER/doctor if you feel unwell.</p> <p>P332+P313 If skin irritation occurs: Get medical advice/attention.</p> <p>P362+P364 Take off contaminated clothing and wash it before reuse.</p> <p>P391 Collect spillage.</p>

### 2.3. Other hazards

Containers should be thoroughly emptied before disposal because of the risk of an explosion. Prolonged or repeated contact with skin may cause irritation, redness and dermatitis. 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. This product does not contain any substances classified as PBT or vPvB.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

<b>Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, &lt;5% n-hexane</b>	<b>30-60%</b>
CAS number: —	EC number: 921-024-6
	REACH registration number: 01-2119475514-35-0000
<b>Classification</b> Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 STOT SE 3 - H336 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411	
<b>PETROLEUM GASES, LIQUEFIED; PETROLEUM GAS</b>	<b>30-60%</b>
CAS number: 68476-85-7	EC number: 270-704-2
<b>Classification</b> Flam. Gas 1 - H220 Press. Gas, Liquefied - H280	

## Silversil Mitre Bonding System (Activator)

<b>N,N-DIMETHYL-PARA-TOLUIDINE</b>			<b>&lt;1%</b>
CAS number: 99-97-8	EC number: 202-805-4	REACH registration number: 01-2119937766-23	
<b>Classification</b> Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 STOT RE 2 - H373 Aquatic Chronic 3 - H412			

The Full Text for all R-Phrases and Hazard Statements are 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.
<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. Exposure may cause coughing or wheezing. In case of overexposure, organic solvents may depress the central nervous system causing dizziness and intoxication, and at very high concentrations unconsciousness and death.
<b>Ingestion</b>	There may be soreness and redness of the mouth and throat.
<b>Skin contact</b>	Prolonged contact may cause redness, irritation and dry skin. Product has a defatting effect on skin.
<b>Eye contact</b>	There may be irritation and redness. Eyes may water profusely. Irritating to eyes.

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

<b>Notes for the doctor</b>	Show this safety data sheet to the doctor in attendance. The following symptoms may occur: Nausea, headache, dizziness, coughing and breathing difficulty.
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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

**Suitable extinguishing media** Water spray, dry powder or carbon dioxide. Alcohol-resistant foam.

## Silversil Mitre Bonding System (Activator)

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

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

**Specific hazards** 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.

**Hazardous combustion products** Oxides of carbon. Acrid smoke or fumes.

### 5.3. Advice for firefighters

**Protective actions during firefighting** 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.

**Special protective equipment for firefighters** 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. Do not breathe vapour. Avoid contact with eyes and prolonged skin contact.

**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 the spillage using bunding. 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. Provide adequate ventilation. 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.

### 6.4. Reference to other sections

**Reference to other sections** For personal protection, see Section 8. See Section 7 for information on safe handling. 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.

## Silversil Mitre Bonding System (Activator)

### 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.

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

#### Storage precautions

Under normal conditions of handling and storage, spillages from aerosol containers are unlikely. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Store in tightly-closed, original container in a dry, cool and well-ventilated place. Avoid contact with oxidising agents. Store away from the following materials: Alkalis.

#### 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.

#### Usage description

Store in a flammable storage cupboard according to national regulations. Solvent based aerosol.

## SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

#### PETROLEUM GASES, LIQUEFIED; PETROLEUM GAS

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1750 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 1250 ppm 2180 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

#### Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

#### DNEL

Consumer - Oral; Long term systemic effects: 699 mg/kg/day  
 Workers - Oral; Long term systemic effects: 2035 mg/kg/day  
 Consumer - Dermal; Long term systemic effects: 699 mg/kg/day  
 Workers - Dermal; Long term systemic effects: 773 mg/kg/day  
 Consumer - Inhalation; Long term systemic effects: 608 mg/m<sup>3</sup>

### 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. Refer to protective measures listed in sections 7 and 8.

#### Personal protection

Wear protective work clothing.

#### Eye/face protection

Wear chemical splash goggles. Personal protective equipment for eye and face protection should comply with European Standard EN166.

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<b>Hand protection</b>	To protect hands from chemicals, gloves should comply with European Standard EN374. Laminate (PE/PA/PE), 2.5mil (0.06mm), >480 min. Nitrile rubber. It should be noted that liquid may penetrate the gloves. Frequent changes are recommended.
<b>Other skin and body protection</b>	Provide eyewash station. Avoid contact with skin. Wear suitable coveralls to prevent exposure to the skin.
<b>Hygiene measures</b>	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 hands at the end of each work shift and before eating, smoking and using the toilet.
<b>Respiratory protection</b>	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. For short term use an AX filter is recommended.
<b>Thermal hazards</b>	Extremely cold, can cause frost bite.
<b>Environmental exposure controls</b>	Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

### SECTION 9: Physical and Chemical Properties

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

<b>Appearance</b>	Liquid.
<b>Colour</b>	Clear.
<b>Odour</b>	Hydrocarbons.
<b>Odour threshold</b>	Data lacking.
<b>pH</b>	pH (concentrated solution): 7
<b>Melting point</b>	Data lacking.
<b>Initial boiling point and range</b>	75-93°C @ 760 mm Hg. Boiling point of hydrocarbons C6-C7, n-alkanes, isoalkanes, cyclics.
<b>Flash point</b>	Not applicable.
<b>Evaporation rate</b>	Not available.
<b>Evaporation factor</b>	Not available.
<b>Flammability (solid, gas)</b>	No specific test data are available.
<b>Other flammability</b>	No specific test data are available.
<b>Vapour density</b>	Not available.
<b>Relative density</b>	0.67-0.69 @ 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>	365-465°C
<b>Decomposition Temperature</b>	Not available.
<b>Explosive properties</b>	In use may form flammable/explosive vapour-air mixture.

## Silversil Mitre Bonding System (Activator)

**Explosive under the influence of a flame** Yes In use may form flammable/explosive vapour-air mixture.

**Oxidising properties** Does not meet the criteria for classification as oxidising.

**Comments** A flash point method is not available but the major hazardous component, the Propellant has a flash point of <-60°C with flammability limits of 10.9% vol. upper and 1.4% vol. lower.

### 9.2. Other information

**Other information** Not available.

**Volatile organic compound** This product contains a maximum VOC content of 605 g/l.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity** Stable under recommended transport or storage conditions.

### 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.

### 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 acids. Strong oxidising agents. Strong alkalis.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Oxides of carbon.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity - oral

ATE oral (mg/kg) 83,333.33

#### Acute toxicity - dermal

ATE dermal (mg/kg) 250,000.0

#### Acute toxicity - inhalation

ATE inhalation (vapours mg/l) 1,166,666.67

**General information** Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.

**Inhalation** High exposures may cause an abnormal heart rhythm and prove suddenly fatal. Very high atmospheric concentrations may cause anaesthetic effects and asphyxiation.

**Ingestion** May cause soreness and redness of mouth and throat.

### Toxicological information on ingredients.

## Silversil Mitre Bonding System (Activator)

### Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

#### Skin corrosion/irritation

**Skin corrosion/irritation** Skin irritation.

#### 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.

#### Specific target organ toxicity - single exposure

**STOT - single exposure** May cause drowsiness or dizziness.

#### Specific target organ toxicity - repeated exposure

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

#### Aspiration hazard

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

### PETROLEUM GASES, LIQUEFIED; PETROLEUM GAS

#### Skin corrosion/irritation

**Skin corrosion/irritation** Not irritating.

#### Germ cell mutagenicity

**Genotoxicity - in vitro** This substance has no evidence of mutagenic properties.

#### Carcinogenicity

**Carcinogenicity** No evidence of carcinogenicity in animal studies.

#### Reproductive toxicity

**Reproductive toxicity - fertility** No evidence of reproductive toxicity in animal studies.

#### Specific target organ toxicity - single exposure

**STOT - single exposure** Gas or vapour is harmful on prolonged exposure or in high concentrations. High concentrations may be fatal.

#### Aspiration hazard

**Aspiration hazard** Not anticipated to present an aspiration hazard, based on chemical structure.

#### Inhalation

May cause respiratory system irritation.



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

**Route of entry** Inhalation Skin and/or eye contact

### N,N-DIMETHYL-PARA-TOLUIDINE

**Toxicological effects** RTECS: XU5803000

#### Acute toxicity - inhalation

**Acute toxicity inhalation** 1,400.0  
(LC<sub>50</sub> vapours mg/l)

#### Germ cell mutagenicity

**Genotoxicity - in vitro** rat-intraperitoneal mouse-intraperitoneal

**Genotoxicity - in vivo** DNA damage and/or repair:

**Inhalation** Upper respiratory irritation. Toxic by inhalation.

**Ingestion** Toxic if swallowed.

**Skin contact** Liquid may irritate skin. Toxic in contact with skin.

**Eye contact** May cause eye irritation.

**Target organs** Respiratory system, lungs Eyes

## SECTION 12: Ecological Information

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

### 12.1. Toxicity

**Toxicity** Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### Ecological information on ingredients.

### PETROLEUM GASES, LIQUEFIED; PETROLEUM GAS

**Toxicity** Not regarded as dangerous for the environment.

### N,N-DIMETHYL-PARA-TOLUIDINE

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 46-52 mg/l, Fish

**Acute toxicity - aquatic invertebrates** Not available.

**Acute toxicity - aquatic plants** Not available.

### 12.2. Persistence and degradability

**Persistence and degradability** The degradability of the product is not known.

#### Ecological information on ingredients.

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

## Silversil Mitre Bonding System (Activator)

**Persistence and degradability** No data available.

### PETROLEUM GASES, LIQUEFIED; PETROLEUM GAS

**Persistence and degradability** The product is degraded completely by photochemical oxidation.

### N,N-DIMETHYL-PARA-TOLUIDINE

**Persistence and degradability** No data available.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** Readily evaporates from water/soil due to high volatility.

**Partition coefficient** Not available.

### Ecological information on ingredients.

#### Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

**Bioaccumulative potential** Not available.

**Partition coefficient** log Pow: 3.4-4.6

### PETROLEUM GASES, LIQUEFIED; PETROLEUM GAS

**Bioaccumulative potential** Bioaccumulation is unlikely.

### N,N-DIMETHYL-PARA-TOLUIDINE

**Bioaccumulative potential** Not available.

### 12.4. Mobility in soil

**Mobility** Volatile

### Ecological information on ingredients.

#### PETROLEUM GASES, LIQUEFIED; PETROLEUM GAS

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

### N,N-DIMETHYL-PARA-TOLUIDINE

**Mobility** No data available.

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** Not determined

### Ecological information on ingredients.

#### PETROLEUM GASES, LIQUEFIED; PETROLEUM GAS

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

## Silversil Mitre Bonding System (Activator)

### 12.6. Other adverse effects

**Other adverse effects** None known.

### Ecological information on ingredients.

**Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane**

**Other adverse effects** The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**General information** Ensure containers are empty before discarding (explosion risk). Must not be disposed of together with household waste.

**Disposal methods** Do not puncture or incinerate, even when empty. Avoid the spillage or runoff entering drains, sewers or watercourses. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

**Waste class** Full or Partially Empty Aerosol: 16 05 04, Empty Aerosol: 15 01 10 (Containing hazardous residues). Empty Aerosol: 15 01 04 (No hazardous residues).

## SECTION 14: Transport information

**General** This product is packed in accordance with the Limited quantity Provisions of CDGCPL2, ADR and IMDG. These provisions allow the transport of aerosols of less than 1 litre packed in cartons of less than 30kg gross weight to be exempt from control providing they are labelled in accordance with the requirements of those regulations to show that they are transported as Limited Quantities. Aerosols not so packed must show the following.

### 14.1. UN number

**UN No. (ADR/RID)** 1950

**UN No. (IMDG)** 1950

**UN No. (ICAO)** 1950

### 14.2. UN proper shipping name

**Proper shipping name (ADR/RID)** AEROSOLS

**Proper shipping name (IMDG)** AEROSOLS

**Proper shipping name (ICAO)** AEROSOLS

**Proper shipping name (ADN)** AEROSOLS

### 14.3. Transport hazard class(es)

**ADR/RID class** 2,5F

**ADR/RID label** 2.1

**IMDG class** 2.1

**ICAO class/division** 2.1

## Mitre Bonding System (Activator)

### Transport labels



### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



### 14.6. Special precautions for user

EmS F-D, S-U

Tunnel restriction code (D)

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78  
and the IBC Code

## SECTION 15: Regulatory information

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

#### National regulations

The Aerosol Dispensers Regulations 2009 (SI 2009 No. 2824).  
Control of Substances Hazardous to Health Regulations 2002 (as amended).  
Health and Safety at Work etc. Act 1974 (as amended).

#### EU legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).  
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

#### Guidance

Approved Classification and Labelling Guide (Sixth edition) L131.  
Workplace Exposure Limits EH40.

#### Authorisations (Title VII Regulation 1907/2006)

No specific authorisations are known for this product.

#### Restrictions (Title VIII Regulation 1907/2006)

No specific restrictions on use are known for this product.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

#### Classification procedures according to Regulation (EC) 1272/2008

Aerosol 1 - H222, H229: Weight of evidence. Skin Irrit. 2 - H315: Calculation method. STOT SE 3 - H336: Calculation method. Aquatic Chronic 2 - H411: Calculation method.

#### Issued by

Technical Department

## Silversil Mitre Bonding System (Activator)

<b>Revision date</b>	07/04/2016
<b>Revision</b>	4
<b>Supersedes date</b>	14/08/2014
<b>SDS number</b>	11575
<b>Hazard statements in full</b>	H220 Extremely flammable gas. H222 Extremely flammable aerosol. H225 Highly flammable liquid and vapour. H229 Pressurised container: may burst if heated H280 Contains gas under pressure; may explode if heated. H301 Toxic if swallowed. H304 May be fatal if swallowed and enters airways. H311 Toxic in contact with skin. H315 Causes skin irritation. H331 Toxic if inhaled. 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.

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