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**Section 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier****Product name:** RITEC CLEARSHIELD**Synonyms:** CLEARSHIELD**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of substance / mixture:** Glass Surface Treatment**1.3. Details of the supplier of the safety data sheet****Company name:** Ritec International Ltd

15 Compass West

Estate West Road

London

N17 0XL

United Kingdom

**Tel:** +44 (0)20 8344 8210**Email:** info@ritec.co.uk**1.4. Emergency telephone number****Emergency tel:** +44 7785 360 784**Section 2: Hazards identification****2.1. Classification of the substance or mixture**

**Classification under CLP:** This Product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures. A Safety Data Sheet has been supplied on request as it contains a substance in a concentration >0.1% that is classified 'Repr.2:H361f'.

**Most important adverse effects:** Safety data sheet available on request.**2.2. Label elements****Label elements:****Hazard Statements:** EUH210: Safety data sheet available on request.

EUH209A: Can become flammable in use.

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### 2.3. Other hazards

**Other hazards:** Phrases listed below are Precautionary only.

Keep only in original packaging.

Store at temperatures not exceeding 25°C.

Wear protective gloves/protective clothing/eye protection/face protection.

Avoid breathing spray.

In case of inadequate ventilation wear respiratory protection.

**PBT:** This product is identified as a PBT/vPvB substance.

Cyclosiloxane meets the current REACH Appendix XIII criteria for PBT and vPvB. However, cyclosiloxanes do not behave similarly to known PBT / vPvB substances. The silicone industry's interpretation of the available data is that the weight of scientific evidence from field studies shows that cyclosiloxanes do not biomagnify in aquatic and terrestrial food webs.

Cyclosiloxanes in air are broken down by reaction with naturally occurring hydroxyl radicals in the atmosphere. Cyclosiloxanes in air that do not degrade through reaction with hydroxyl radicals are not expected to be deposited from the air into water, land, or living organisms. \*

### Section 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Hazardous ingredients:

CYCLOSILOXANE – REACH registered number(s): 01-2119529238-36-XXXX

EINECS	CAS	PBT / WEL	CLP Classification	Percent
209-136-7	556-67-2	PBT Substance	Acute Tox. 4: H302; Aquatic Chronic 4: H413; Repr. 2: H361f	< 3.00%

PROPAN-2-OL – REACH registered number(s): 01-21194557558-25-0000

200-661-7	67-63-0	-Substance with a Community Workplace Exposure Limit. See Sec 8.1	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336	< 1.00%
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### Section 4: First aid measures

#### 4.1. Description of first aid measures

**Skin contact:** Wash immediately with plenty of soap and water.

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

**Ingestion:** Wash out mouth with water.

**Inhalation:** Consult a doctor.

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

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

**Eye contact:** There may be irritation and redness.

**Ingestion:** There may be irritation of the throat.

**Inhalation:** No symptoms.

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**Delayed / immediate effects:** Not applicable.

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

**Immediate / special treatment:** Not applicable.

## Section 5: Fire-fighting measures

### 5.1. Extinguishing media

**Extinguishing media:** You should use suitable extinguishing media for the surrounding fire, the product will not contribute to the fire

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

**Exposure hazards:** In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

### 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. 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

### 7.1. Precautions for safe handling

**Handling requirements:** Ensure there is sufficient ventilation of the area. 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. Store at temperatures not exceeding 25°C.

**Suitable packaging:** Must only be kept in original packaging.

### 7.3. Specific end use(s)

**Specific end use(s):** Glass Surface Treatment

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### Section 8: Exposure controls/personal protection

#### 8.1. Control parameters

**Hazardous ingredients:**

**PROPAN-2-OL**

**Workplace exposure limits:**

**Respirable dust**

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	999 mg/m <sup>3</sup>	1250 mg/m <sup>3</sup>	-	-

#### DNEL/PNEC Values

**Hazardous ingredients:**

**PROPAN-2-OL**

Type	Exposure	Value	Population	Effect
DNEL	Oral	26mg/kg bw/day	Consumers	Systemic
DNEL	Dermal	319mg/kg bw/day	Consumers	Systemic
DNEL	Dermal	888mg/kg bw/day	Workers	Systemic
DNEL	Inhalation	88mg/m <sup>3</sup>	Consumers	Systemic
DNEL	Inhalation	500mg/m <sup>3</sup>	Workers	Systemic
PNEC	Fresh water	140.9mg/l	-	-
PNEC	Fresh water sediments	552mg/kg	-	-
PNEC	Marine water	140.9mg/l	-	-
PNEC	Marine sediments	552mg/kg	-	-
PNEC	Soil (agricultural)	28mg/kg	-	-

#### 8.2. Exposure controls

**Engineering measures:** Ensure there is sufficient ventilation of the area. If product is sprayed use Local Exhaust Ventilation.

**Respiratory protection:** If product is sprayed, Local Exhaust Ventilation and respiratory protection is required Gas/vapour filter, type A: organic vapours (EN141).

**Hand protection:** Nitrile gloves. Breakthrough time of the glove material > 1 hour.

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

**Skin protection:** Protective clothing.

**Environmental:** No special requirement.

### Section 9: Physical and chemical properties

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

**State:** Liquid

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**Colour:** Colourless

**Odour:** Perceptible odour

**Evaporation rate:** Moderate

**Oxidising:** Non-oxidising (by EC criteria)

**Solubility in water:** Not miscible

**Also soluble in:** Most organic solvents.

**Viscosity:** Non-viscous

**Boiling point/range°C:** 32-37

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

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

**upper:** No data available.

**Flash point°C:** See Below 9.2

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

**Autoflammability°C:** No data available.

**Vapour pressure:** No data available.

**Relative density:** 1.07-1.20

**pH:** No data available.

**VOC g/l:** No data available.

### 9.2. Other information

**Other information:** No Flashpoint Detected Abel Closed Cup Method BS EN ISO13736:2013

## 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:** Heat. Do not store in direct sunlight, on hot surfaces, near radiators or other forms of heating.

### 10.5. Incompatible materials

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

### 10.6. Hazardous decomposition products

**Haz. decomp. products:** In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

**Hazardous ingredients:**

**CYCLOSILOXANE**

ORL	RAT	LD50	1540	mg/kg
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SKN	RBT	LD50	794	µl/kg
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### PROPAN-2-OL

IVN	RAT	LD50	1088	mg/kg
ORL	MUS	LD50	3600	mg/kg
ORL	RAT	LD50	5045	mg/kg
SCU	MUS	LDLO	6	gm/kg

**Toxicity values:** No data available.

### Symptoms / routes of exposure

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

**Eye contact:** There may be irritation and redness.

**Ingestion:** There may be irritation of the throat.

**Inhalation:** No symptoms.

**Delayed / immediate effects:** Not applicable.

**Other information:** Carcinogenicity; IARC; no component of this product is identified as, probable, possible, or confirmed as a human carcinogen by IARC

### Section 12: Ecological information

#### 12.1. Toxicity

##### Hazardous ingredients:

##### PROPAN-2-OL

-	72H IC50	>1000	mg/l
-	48H EC50	13299	mg/l
-	96H LC50	4200	mg/l

#### 12.2. Persistence and degradability

**Persistence and degradability:** No data available.

#### 12.3. Bioaccumulative potential

**Bioaccumulative potential:** No data available.

#### 12.4. Mobility in soil

**Mobility:** No data available.

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

**Persistence (P -): \***

##### Days

Half-life in sea water:> 60

Half-life in marine sediment:> 180

Half-life in the soil:> 180

Persistence: vP-

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## Bioaccumulation potential. (B -): \*

Bioconcentration factor (BCF): > 5000

Marine or freshwater life: Pimephales Promelas (fathead minnow)

Bioaccumulative potential: vB-

## Toxicity (T -): \*

mg / l

NOEC on marine or freshwater organisms: <0.1

Toxicity: T

**PBT identification:** Substance is identified as vPvB. \*

### 12.6. Other adverse effects

**Other adverse effects:** Negligible ecotoxicity.

## Section 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal of packaging:** Dispose of as normal industrial waste.

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

## Section 14: Transport information

**Transport class:** This product does not require a classification for transport.

## Section 15: Regulatory information

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

**Specific regulations:** Not applicable.

### 15.2. Chemical Safety Assessment

**Chemical safety assessment:** Chemical Safety Assessment/Reports (CSA/CSR) are not required for mixtures  
REACH is framed for substances

## Section 16: Other information

### Other information

**Other information:** according to Regulation (EC) No. 1907/2006 (REACH) with its amendment  
Regulation (EU) 2015/830

**Phrases used in s.2 and s.3:** H225: Highly flammable liquid and vapour.  
H302: Harmful if swallowed.

[Cont...]

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H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

H361f: Suspected of damaging fertility.

H413: May cause long lasting harmful effects to aquatic life.

EUH209A: Can become flammable in use

EUH210: Safety data sheet available on request.

**Legal disclaimer:** Note H361f. This was based on the available data at the time for its demonstrated effects on female fertility in rats. With regard to rat versus human support that the observed high-dose effect of Cyclosiloxane on female rat fertility should not be considered relevant to humans.

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.

[End]