

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

##### 1.1. Product identifier

**Product name:** QUARTZ

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

**Use of substance / mixture:** Disinfectant solution. For professional use only. Uses advised against: Uses other than the intended use of the product

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

**Company name:** Tristel Solutions Limited

Lynx Business Park

Fordham Road

Newmarket

Cambridgeshire

CB8 7NY

United Kingdom

**Tel:** +44 (0) 1638 721 500

**Fax:** +44 (0) 1638 721 911

**Email:** healthandsafety@tristel.com

##### 1.4. Emergency telephone number

**Emergency tel:** +44 (0) 1638 721 500

(office hours only)

#### Section 2: Hazards identification

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

**Classification under CLP:** Skin Corr. 1C: H314; Acute Tox. 4: H302; Acute Tox. 4: H332; Ox. Liq. 3: H272; STOT SE 3: H335

**Classification under CHIP:** O: R8; Xn: R20/21/22; C: R34; Xi: R37

**Most important adverse effects:** May intensify fire; oxidiser. Harmful if swallowed. Causes severe skin burns and eye damage. Harmful if inhaled. May cause respiratory irritation.

##### 2.2. Label elements

**Label elements under CLP:**

**Hazard statements:** H272: May intensify fire; oxidiser.

H302: Harmful if swallowed.

H314: Causes severe skin burns and eye damage.

H332: Harmful if inhaled.

H335: May cause respiratory irritation.

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**Signal words:** Danger

**Hazard pictograms:** GHS03: Flame over circle

GHS05: Corrosion

GHS07: Exclamation mark



**Precautionary statements:** P280: Wear protective gloves/protective clothing/eye protection.

P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor.

P303+361+353: IF ON SKIN (or hair): Remove immediately all contaminated clothing.

Rinse skin with water/shower.

P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position 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.

## 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:

##### HYDROGEN PEROXIDE SOLUTION

EINECS	CAS	CHIP Classification	CLP Classification	Percent
231-765-0	7722-84-1	-	Ox. Liq. 1: H271; Acute Tox. 4: H332; Acute Tox. 4: H302; Skin Corr. 1A: H314	10-30%

##### ACETIC ACID

200-580-7	64-19-7	-	Flam. Liq. 3: H226; Skin Corr. 1A: H314	1-10%
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##### PERACETIC ACID

201-186-8	79-21-0	-	Flam. Liq. 3: H226; Org. Perox. CD: H242; Acute Tox. 4: H332; Acute Tox. 4: H312; Acute Tox. 4: H302; Skin Corr. 1A: H314; Aquatic Acute 1: H400	1-10%
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## 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. Consult a doctor.

**Eye contact:** Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination. Consult with an ophthalmologist immediately in all cases.

[cont...]

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**Ingestion:** Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor.

**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. place unconscious person on the side in the recovery position and ensure breathing. If respiratory problems, artificial respiration/oxygen.  
Get medical attention if any discomfort continues

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

**Skin contact:** Severe burns may occur.

**Eye contact:** Corneal burns may occur. There may be severe pain.

**Ingestion:** There may be soreness and redness of the mouth and throat. Inhalation of fumes from the stomach may cause symptoms similar to direct inhalation.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest. Drowsiness or mental confusion may occur.

**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:** Isolate the area. Keep people away from and upwind of spill/leak. Refer to section 8 of SDS for personal protection details. Isolate the area.

### 6.2. Environmental precautions

**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding. Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

### 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.

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## 6.4. Reference to other sections

**Reference to other sections:** Refer to section 8 of SDS. Refer to section 13 of SDS.

## Section 7: Handling and storage

### 7.1. Precautions for safe handling

**Handling requirements:** Ensure there is sufficient ventilation of the area. Do not handle in a confined space.  
Prevent all contact with organics Before all operations, passivate the piping circuits and vessels according to the procedure recommended by the producer Keep away from incompatible products. Use only in an area with adequate water supply

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

**Storage conditions:** Store in cool, well ventilated area. Keep container tightly closed. Keep away from incompatible products  
Keep away from combustible material.

### 7.3. Specific end use(s)

**Specific end use(s):** Disinfectant Solution. For professional use only.

## Section 8: Exposure controls/personal protection

### 8.1. Control parameters

**Hazardous ingredients:**

HYDROGEN PEROXIDE SOLUTION...100%

**Workplace exposure limits:**

**Respirable dust**

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	1.4 mg/m <sup>3</sup>	2.8 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:** Butyl gloves.

**Eye protection:** Safety goggles. Face-shield.

**Skin protection:** Protective clothing. Apron. Rubber boots.

## Section 9: Physical and chemical properties

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

**State:** Liquid

**Colour:** Colourless

**Odour:** Pungent

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**Evaporation rate:** No data available.

**Oxidising:** Oxidising (by EC criteria)

**Solubility in water:** Miscible

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

**Viscosity:** Non-viscous

**Boiling point/range °C:** 60

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

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

**upper:** No data available.

**Flash point °C:** No data available.

**Part.coeff. n-octanol/water:** -1.25

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

**Vapour pressure:** No data available.

**Relative density:** 1.1

**pH:** <2

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

## 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:** Heat. Contamination

### 10.5. Incompatible materials

**Materials to avoid:** Bases. Acids. Metals. Salts of Metals Reducing agents. Organic materials. Flammable Material

### 10.6. Hazardous decomposition products

**Haz. decomp. products:** The release of other hazardous decomposition products is possible Oxygen

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

**Toxicity values:**

Route	Species	Test	Value	Units
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DERMAL	RBT	LD50	1147	mg/kg
ORAL	RAT	LD50	330	mg/kg

### Hazardous ingredients:

#### HYDROGEN PEROXIDE SOLUTION...100%

ORL	MUS	LD50	2	gm/kg
ORL	RAT	LD50	376	mg/kg
SKN	RAT	LD50	4060	mg/kg

#### ACETIC ACID...100%

IVN	MUS	LD50	525	mg/kg
ORL	RAT	LD50	3310	mg/kg

#### PERACETIC ACID...100%

IVN	MUS	LD50	17860	µg/kg
ORL	MUS	LD50	210	mg/kg
ORL	RAT	LD50	1540	µl/kg

### Relevant effects for mixture:

Effect	Route	Basis
Acute toxicity (harmful)	INH DRM ING	Hazardous: calculated
Irritation	INH	Hazardous: calculated
Corrosivity	OPT INH DRM	Hazardous: calculated

### Symptoms / routes of exposure

**Skin contact:** Severe burns may occur.

**Eye contact:** Corneal burns may occur. There may be severe pain.

**Ingestion:** There may be soreness and redness of the mouth and throat. Inhalation of fumes from the stomach may cause symptoms similar to direct inhalation.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest. Drowsiness or mental confusion may occur.

**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.

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## 12.3. Bioaccumulative potential

**Bioaccumulative potential:** No bioaccumulation potential.

## 12.4. Mobility in soil

**Mobility:** Readily absorbed into soil. Not classified as environmentally hazardous.

## 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.

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

## Section 14: Transport information

### 14.1. UN number

**UN number:** UN3149

### 14.2. UN proper shipping name

**Shipping name:** HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED

### 14.3. Transport hazard class(es)

**Transport class:** 5.1 (8)

### 14.4. Packing group

**Packing group:** II

### 14.5. Environmental hazards

**Environmentally hazardous:** No

**Marine pollutant:** No

### 14.6. Special precautions for user

**Special precautions:** No special precautions.

**Tunnel code:** E

**Transport category:** 2

## Section 15: Regulatory information

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

**Specific regulations:** This product has been classified in accordance with CLP and CHIP regulations and compiled in accordance with Annex II of REACH.

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## 15.2. Chemical Safety Assessment

**Chemical safety assessment:** A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

## 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:** H226: Flammable liquid and vapour.  
H242: Heating may cause a fire.  
H271: May cause fire or explosion; strong oxidiser.  
H272: May intensify fire; oxidiser.  
H302: Harmful if swallowed.  
H312: Harmful in contact with skin.  
H314: Causes severe skin burns and eye damage.  
H332: Harmful if inhaled.  
H335: May cause respiratory irritation.  
H400: Very toxic to aquatic life.  
R8: Contact with combustible material may cause fire.  
R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.  
R34: Causes burns.  
R37: Irritating to respiratory system.

**Legend to abbreviations:** PNEC = predicted no effect level  
DNEL = derived no effect level  
LD50 = median lethal dose  
LC50 = median lethal concentration  
EC50 = median effective concentration  
IC50 = median inhibitory concentration  
dw = dry weight  
bw = body weight  
cc = closed cup  
oc = open cup  
MUS = mouse  
GPG = guinea pig  
RBT = rabbit  
HAM = hamster  
HMN = human  
MAM = mammal

[cont...]



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PGN = pigeon

IVN = intravenous

SCU = subcutaneous

SKN = skin

DRM = dermal

OCC = ocular/corneal

PCP = physico-chemical properties

**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.