

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

**1.1. Product identifier**

**Product name:** Star Ultrasonic Multicleaner

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

**Use of substance / mixture:** PC35: Washing and cleaning products (including solvent based products).

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

**Company name:** Star International Ltd

Unit 2, Star House

Turbine Business Park

Birkenhead

CH41 9BA

United Kingdom

**Tel:** +44 (0) 1244 504 500

**Email:** enquiries@star-international.co.uk

**1.4. Emergency telephone number**

**Emergency tel:** +44 (0) 1244 504 500

**Section 2: Hazards identification**

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

**Classification under CLP:** Repr. 1B: H360D; Skin Corr. 1A: H314

**Most important adverse effects:** Causes severe skin burns and eye damage. May damage the unborn child.

**2.2. Label elements**

**Label elements:**

**Hazard statements:** H314: Causes severe skin burns and eye damage.

H360D: May damage the unborn child.

**Hazard pictograms:** GHS05: Corrosion

GHS08: Health hazard



**Signal words:** Danger

**Precautionary statements:** P260: Do not breathe mist/vapours/spray.

P280: Wear protective clothing.

## SAFETY DATA SHEET

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P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water .

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338: 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

**Other hazards:** Danger of serious damage to health by prolonged exposure.

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

## Section 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous ingredients:

2-BUTOXYETHANOL - REACH registered number(s): 01-2119475108-36-0000

EINECS	CAS	PBT / WEL	CLP Classification	Percent
203-905-0	111-76-2	-	Acute Tox. 4: H332; Acute Tox. 4: H312; Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Irrit. 2: H315	1-10%

ISOPROPANOL - REACH registered number(s): 01-2119457558-25-XXXX

200-661-7	67-63-0	-	STOT SE 3: H336; Eye Irrit. 2: H319; Flam. Liq. 2: H225	1-10%
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9-OCTADECENOIC ACID (Z)-, SULFONATED, POTASSIUM SALTS

271-843-1	68609-93-8	-	Repr. 1B: H360D; Eye Irrit. 2: H319	1-10%
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TRISODIUM PHOSPHATE

231-509-8	7601-54-9	-	Eye Irrit. 2: H319; Skin Irrit. 2: H315	1-10%
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SODIUM HYDROXIDE PEARL - REACH registered number(s): 01-2119457892-27-0000

215-185-5	1310-73-2	-	Skin Corr. 1A: H314	1-10%
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SODIUM CARBONATE - REACH registered number(s): 01-2119485498-19-0000

207-838-8	497-19-8	-	Eye Irrit. 2: H319	1-10%
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METHANOL - REACH registered number(s): 01-2119433307-44-0030

200-659-6	67-56-1	-	Flam. Liq. 2: H225; Acute Tox. 3: H331; Acute Tox. 3: H311; Acute Tox. 3: H301; STOT SE 1: H370	<1%
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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.

[cont...]

Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning. Consult a doctor.

**Eye contact:** Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination. Consult a doctor.

**Ingestion:** Wash out mouth with water. Do not induce vomiting. Give 1 cup of water to drink every 10 minutes. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.

**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious and breathing is OK, place in the recovery position. If conscious, ensure the casualty sits or lies down. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.

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

**Skin contact:** Blistering may occur. Progressive ulceration will occur if treatment is not immediate.

**Eye contact:** Corneal burns may occur. May cause permanent damage.

**Ingestion:** Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.

**Inhalation:** There may be shortness of breath with a burning sensation in the throat. 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:** Corrosive. 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:** Notify the police and fire brigade immediately. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access

to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid. Evacuate the area immediately.

## 6.2. Environmental precautions

**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding. Alert the neighbourhood to the presence of fumes or gas.

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

**Clean-up procedures:** Clean-up should be dealt with only by qualified personnel familiar with the specific substance. 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:** 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:** Must only be kept in original packaging.

## 7.3. Specific end use(s)

**Specific end use(s):** PC35: Washing and cleaning products (including solvent based products).

# Section 8: Exposure controls/personal protection

## 8.1. Control parameters

**Hazardous ingredients:**

**2-BUTOXYETHANOL**

**Workplace exposure limits:**

**Respirable dust:**

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	123 mg/m <sup>3</sup>	-	-	-

**ISOPROPANOL**

UK	400 PPM	500 PPM	-	-
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**TRISODIUM PHOSPHATE**

UK	10 mg/m <sup>3</sup>	-	-	-
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**SODIUM HYDROXIDE PEARL**

UK	-	2 mg/m3	-	-
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**SODIUM CARBONATE**

UK	4 mg/m3 dust	-	-	-
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**METHANOL**

UK	266 mg/m3	333 mg/m3	-	-
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**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:** Impermeable gloves.

**Eye protection:** Tightly fitting safety goggles. Ensure eye bath is to hand.

**Skin protection:** Impermeable protective clothing.

**Environmental:** Refer to specific Member State legislation for requirements under Community environmental legislation.

**Section 9: Physical and chemical properties**
**9.1. Information on basic physical and chemical properties**

**State:** Liquid

**Colour:** Yellow-brown

**Odour:** Characteristic odour

**Evaporation rate:** Negligible

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

**Solubility in water:** Miscible in all proportions

**Viscosity:** Non-viscous

**Boiling point/range°C:** >100

**Flammability limits %: lower:** Not applicable.

**Flash point°C:** Not applicable.

**Autoflammability°C:** Not applicable.

**Relative density:** 1.054

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

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

**upper:** Not applicable.

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

**Vapour pressure:** No data available.

**pH:** 13.5

**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. Hot surfaces. Flames.

**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.

**Section 11: Toxicological information**
**11.1. Information on toxicological effects**
**Hazardous ingredients:**
**2-BUTOXYETHANOL**

IVN	RAT	LD50	307	mg/kg
ORL	MUS	LD50	1230	mg/kg
ORL	RAT	LD50	470	mg/kg

**ISOPROPANOL**

DERMAL	RBT	LD50	12800	mg/kg
ORAL	RAT	LD50	5045	mg/kg

**TRISODIUM PHOSPHATE**

ORL	RAT	LD50	7400	mg/kg
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**SODIUM CARBONATE**

ORAL	MUS	LD50	6600	mg/kg
ORAL	RAT	LD50	4090	mg/kg
SCU	MUS	LD50	2210	mg/kg

**METHANOL**

DERMAL	RBT	LD50	15800	mg/kg
ORAL	RAT	LD50	5628	mg/kg
VAPOURS	RAT	4H LC50	64000	ppmV

**Relevant hazards for product:**

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated
Reproductive toxicity	--	Hazardous: calculated

**Symptoms / routes of exposure**

**Skin contact:** Blistering may occur. Progressive ulceration will occur if treatment is not immediate.

**Eye contact:** Corneal burns may occur. May cause permanent damage.

**Ingestion:** Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.

**Inhalation:** There may be shortness of breath with a burning sensation in the throat. 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**
**Hazardous ingredients:**
**METHANOL**

Daphnia magna	48H EC50	24500	mg/l
RAINBOW TROUT (Oncorhynchus mykiss)	96H LC50	19000	mg/l

**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.

**Recovery operations:** Recycling/reclamation of other inorganic materials.

**Waste code number:** 20 01 15

**Disposal of packaging:** Dispose of in accordance with all applicable local, regional and national regulations.

**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:** UN3266

**14.2. UN proper shipping name**

**Shipping name:** CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.  
(SODIUM HYDROXIDE)

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

**Transport class:** 8

**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.

**Tunnel code:** E

**Transport category:** 3

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

**Transport in bulk:** Non-applicable

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

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

**Phrases used in s.2 and s.3:** H225: Highly flammable liquid and vapour.

H301: Toxic if swallowed.

H302: Harmful if swallowed.

H311: Toxic in contact with skin.

H312: Harmful in contact with skin.

H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H331: Toxic if inhaled.

H332: Harmful if inhaled.

H336: May cause drowsiness or dizziness.

H360D: May damage the unborn child.

H370: Causes damage to organs.

**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.

