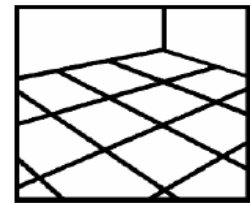




**PRODUCT INFORMATION SHEET**

**TRIO 100**

**HARD SURFACE SANITISER/CLEANER**



- **KILLS MRSA**
- **Non-Tainting – Safe for the food industry**
- **Kills 99.999% of bacteria (passes BS EN 1276 at 1:80)**

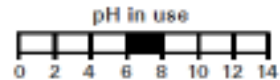
*A fast acting, spray on and wipe off bactericidal cleaner for the food industry.*

**Kills 99.999% of bacteria at a dilution of 1:80 (Passes BS EN 1276:1997).**

<b>Contact time:</b> 60 seconds*	<b>Conditions:</b> Clean	<b>Kill Rate:</b> 99.999%
<b>Contact time:</b> 5 Minutes	<b>Conditions:</b> Dirty	<b>Kill Rate:</b> 99.999%

**Effective against MRSA at a dilution of 1:80 (Passes BS EN 1276:1997).**

<b>Contact time:</b> 5 Minutes	<b>Conditions:</b> Clean & Dirty	<b>Kill Rate:</b> 99.999%
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\* Dirty areas allow a contact time of 5 minutes.

**USES**

TRIO 100 is an odourless, neutral sanitiser that is ideal for daily disinfection in the food industry. Effective against MRSA, Salmonella, E.coli and Pseudomonas Aeruginosa.

TRIO 100 cleans and sanitises all hard surfaces safely. Use on a regular basis for cleaning and disinfecting work surfaces, equipment, floors, walls, delivery vehicles etc.

Suitable for use in a range of industries including: kitchens, bakeries, confectioners, meat preparation, breweries, shops, butchers, hospitals, restaurants and canteens.



**DIRECTIONS**

Clean heavily soiled areas with UBIK 2000 prior to disinfection.

Apply to surface using a mop, spray, cloth or other equipment. Allow 5 minutes contact time and then rinse well with clean water.

Sanitising showerheads/air conditioning units: Soak in a 1:80 solution of TRIO 100 for 30 minutes. Rinse well. Kills Legionella Pneumophila (Legionnaire's Disease).

**N.B.** Do not mix with other chemicals or cleaners. When using TRIO 100 in machines, a defoamer may need to be added to the water collection tank.

***Use biocides safely. Always read the label and product information before use.***



**DILUTIONS**

Dilute 1 part TRIO 100 with 80 Parts of hot or cold water.



**SAFETY DATA SHEET**

**TRIO 100**

**Hard Surface Sanitiser/Cleaner**

**1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING**

**Product name:** TRIO 100  
**Product code:** 201  
**Company name:** Hugh Crane Cleaning Equipment Ltd  
South Walsham Road, Acle  
Norwich, NR13 3ES  
**Telephone:** 01493 750072 Fax 01493 751854  
**Emergency tel:** NHS Direct 08454647 NHS24 0845242424 ROI 018092166 (office hours only)

**Relevant Identified Uses Of The Substance Or Mixture And Uses Advised Against**

**Use of substance / mixture:** PC8: Biocidal products (e.g. Disinfectants, pest control).

**2. HAZARD IDENTIFICATION**

**Classification under CLP:** Aquatic Acute 1: H400  
Aquatic Chronic 1: H410  
Skin Corr. 1B: H314

**Most important adverse effects:** Causes severe skin burns and eye damage. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

**Label elements**

**Hazard statements:** H314: Causes severe skin burns and eye damage.  
H400: Very toxic to aquatic life.  
H410: Very toxic to aquatic life with long lasting effects.

**Signal words:** Danger

**Hazard pictograms:** HS05: Corrosion GHS09: Environmental



**Precautionary statements:** P102 Keep out of reach of children.  
P264 Wash hands thoroughly after handling.  
P282 Wear eye protection.  
P280 Wear protective gloves.  
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P303+361+353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P337+313 If eye irritation persists: Get medical attention.  
P332+313 If skin irritation occurs: Get medical attention.  
P273 Avoid release to the environment.

**Other hazards**

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

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Mixtures**

Hazardous ingredients	EINECS	CAS	PBT/WEL	CLP Classification	Percent
C9-11 ALCOHOL ETHOXYLATE	-	68439-46-3	-	Acute Tox. 4: H302; Eye Dam. 1: H318	1-10%
QUATERNARY AMMONIUM COMPOUNDS, BENZYL( C12-C16) ALKYL DIMETHYL, CHLORIDES	270-325-2	68424-85-1		Met Corr 1 H290 Skin Corr. 1B: H314 Eye Dam. 1: H318 Aquatic Acute 1:H400 Acute Tox. 4: H302 Aquatic Chronic 1:H410	1-10%



Hazardous ingredients	EINECS	CAS	PBT/WEL	CLP Classification	Percent
DIDECYLDIMETHYLAMMONIUM CHLORIDE	230-525-2	7173-51-5		Acute Tox. 4: H302 Skin Corr. 1B: H314	1-10%
C9/11 A, >3-6 EO PREDOMINANTLY LINEAR (DID 21)	POLYMER	160875-66-1		Eye Dam. 1: H318	1-10%
ALCOHOLS, C12-C14, ETHOXYLATED	POLYMER	68439-50-9		Aquatic Acute 1:H400 Eye Dam. 1: H318	<1%

#### **4. FIRST AID MEASURES**

##### **Description of first aid measures**

**Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Rinse skin with water. Transfer to hospital if there are burns or symptoms of poisoning.

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

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

**Inhalation:** Not applicable.

##### **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 pain.

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

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

##### **Indication Of Any Immediate Medical Attention And Special Treatment Needed**

#### **5. FIRE-FIGHTING MEASURES**

**Extinguishing media:** Water.

##### **Special hazards arising from the substance or mixture**

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

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

#### **6. ACCIDENTAL RELEASE MEASURES**

##### **Personal Precautions, Protective Equipment And Emergency Procedures**

**Personal precautions:** Refer to section 8 of SDS for personal protection details. 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.

**Environmental precautions:** Do not discharge into drains or rivers.

**Clean-up procedures:** Transfer to a suitable container.

**Reference to other sections:**

#### **7. HANDLING AND STORAGE**

##### **Precautions for safe handling**

**Handling requirements:** Avoid the formation or spread of mists in the air.

##### **Conditions for safe storage, including any incompatibilities**

**Storage conditions:** Keep container tightly closed.

**Suitable packaging:** Polyethylene.

**Specific end use(s):**

#### **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

##### **Control parameters**

**Workplace exposure limits:** No data available.

**DNEL / PNEC** No data available.

##### **Exposure Controls**

**Engineering Measures:** Not applicable.

**Hand protection:** Protective gloves. Nitrile gloves.

**Eye protection:** Safety glasses.



## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

State:	Liquid
Colour:	Yellow
Odour:	Barely perceptible odour.
Evaporation Rate:	Not applicable.
Oxidising:	Non-oxidising (by EC criteria)
Solubility in water:	Soluble
Viscosity:	Non-viscous
Boiling point/range °C:	100
Melting point/range °C:	0
Flammability Limits: % Lower:	Not applicable
Flammability Limits: % Upper:	Not applicable
Partition Coeff. N-Octanol/water:	Not applicable.
Autoflammability:	Not applicable.
Vapour Pressure:	Not applicable.
Relative density:	1.003
pH:	11
VOC g/l:	0
Other information:	No data available

## 10. STABILITY AND REACTIVITY

Reactivity:	Stable under recommended transport or storage conditions.
Chemical stability:	Stable under normal conditions.
Hazardous reactions:	Hazardous reactions will not occur under normal transport or storage conditions.
Conditions to avoid:	
Materials to avoid:	
Haz. decomp. products:	In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

## 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects

Hazardous Ingredient	Hazard
QUATERNARY AMMONIUM COMPOUNDS, BENZYL (C12-C16) ALKYL DIMETHYL, CHLORIDES	ORAL RAT LD50 795 mg/kg
DIDECYLDIMETHYLAMMONIUM CHLORIDE	DERMAL RAT LD50 >2000 mg/kg ORAL RAT LD50 658 mg/kg
C9/11 A, >3-6 EO PREDOMINANTLY LINEAR (DID 21)	ORAL RAT LD50 >2000 mg/kg
ALCOHOLS, C12-C14, ETHOXYLATED	ORAL RAT LD50 >5000 mg/kg

### Relevant effects for substance

Hazard	Route	Basis
Skin corrosion / Irritation	DRM	Hazardous : Calculated
Serious eye damage / Irritation	OPT	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 pain.
Ingestion:	There may be soreness and redness of the mouth and throat.
Delayed / immediate effects:	Immediate effects can be expected after short-term exposure.

## 12. ECOLOGICAL INFORMATION

### Toxicity

Hazardous ingredients	Hazard Information			
C9-11 ALCOHOL ETHOXYLATE	Fish	96H LC50	1-10	Mg/l
QUATERNARY AMMONIUM COMPOUNDS, BENZYL (C12-V16) ALKYL DIMETHYL, CHLORIDES	Daphnia Magna	48H EC50	.016	mg/l
	GREEN ALGA (Selenastrum Capricornutum)	72H ErC50	.026	mg/l
	RAINBOW TROUT (Oncorhynchus Mykiss)	96H LC50	.85	mg/l
DIDECYLDIMETHYLAMMONIUM CHLORIDE	Daphnia Magna	48H EC50	0.06	mg/l
	GREEN ALGA (Selenastrum Capricornutum)	96H LC50	0.12	mg/l
	ZEBRAFISH (Brachydanio rerio)	96H LC50	0..97	mg/l



# HUGH CRANE

— Cleaning Equipment Limited —

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Revision Date 01/12/2017  
Print Date 12/02/2014

C9/11 A, >3-6 EO PREDOMINANTLY LINEAR (DID 21)	Scenedesmus	48H EC50	10-100	mg/l
ALCOHOLS, C12-C14, ETHOXYLATED	-	48H EC50	>1-<=10	mg/l
	-	48H EC50	>100	mg/l
	-	96H LC50	>1-<=10	mg/l
	-	96H LC50	>1-<=10	mg/l

**Persistence and degradability:** Biodegradable. The surfactants contained in this preparation comply with the biodegradability criteria as laid down in regulation (EC) No.648/2004 on detergents.

**Bioaccumulative potential:** No bioaccumulation potential.

**Mobility in soil:** Soluble in water.

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

**Other adverse effects:**

### 13. DISPOSAL CONSIDERATIONS

#### 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.

### 14. TRANSPORT INFORMATION

**UN Number:** UN3082

**UN Proper Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Alkyldimethylbenzylammoniumchloride, didecyldimethylammoniumchloride)

**Transport class:** 9

**Packing group:** III

#### Environmental hazards

**Environmentally hazardous:** Yes

**Marine pollutant:** Yes

#### Special precautions for user

**Tunnel code:** E

**Transport category:** 3

### 15. REGULATORY INFORMATION

#### Safety, Health And Environmental Regulations/Legislation Specific For The Substance Or Mixture

**Chemical safety assessment:**

### 16. OTHER INFORMATION

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

**Revision Date:** 1<sup>ST</sup> December 2017

**Phrases used in s.2 and 3:**

- H290 May be corrosive to metals.
- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H318 Causes serious eye damage.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

**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.

**End of Safety Data Sheet**