

## Biokill

### 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

#### 1.1 Product Identifier

Material name : Biokill  
Product code :

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

Product use : Hard surface wipes.

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

Manufacturer/Supplier: IMG Ltd.,  
Unit M  
Riverside Industrial Estate  
Fazeley  
Tamworth  
B78 3RW

Tel. : 01827 283322  
Fax. : 01827 250143

Email (for SDSs) : sales@img-limited.co.uk

1.4 Emergency tel. no. : 01827 283322 (Available from 08.30 – 17.00 hours).

### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

According to 1272/2008/EC: Classification, Labelling and Packaging of Substances and Mixtures (CLP) Regulation:

Physical and Chemical Hazards	Not classified
Human health	Not classified
Environment	Aq.Chron. 3; H412

#### 2.2 Label elements

Labelling according to EC Directives: 1272/2008/EC

Signal word: None

Pictogram(s): None required

**H-Statements:** H412 Harmful to aquatic life with long-lasting harmful effects.

**P-Statements:** P273 Avoid release to the environment.  
P501 Dispose of contents/container in accordance with national regulations.

#### 2.3 Other hazards

No data available

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2 Mixtures:

##### Hazardous components

Chemical Name	CAS No./ EC No./ Reg. No	Classification (1272/2008/EC)	Content
Didecyldimethyl Ammonium Chloride	7173-51-5 230-525-2	Acute Tox.4; H302, H312 Skin Corr.1B; H314	0.5-1%
Quaternary ammonium compounds, Benzyl C8-18- Alkyl dimethyl, chlorides	63449-41-2 246-151-6	Met.Corr.1; H290 Acute Tox.4; H302, H312 Skin Corr.1B; H314 Aq. Acute 1; H400	0.5-1%
Polyaminopropyl Biguanide Syn. Polyhexamethylene Biguanide (PHMB)	27083-27-8 -	Ac.Tox.4; H302 Skin Sens.1; H317 Eye Dam.1; H318 Carc.2; H351 STOT RE1; H372 Aq. Acute.1; H400 Aq. Chron.1; H411	0.1-0.2%

**Other information:** Product is an aqueous mixture absorbed onto a cloth wipe.

See Section 16 for the full text of the H-statements noted above.

(1272/2008/EC: Classification, Labelling and Packaging of Substances and Mixtures (CLP) Regulation).

### 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

**General advice:** Remove casualty from exposure ensuring one's own safety whilst doing so. Never give anything by mouth to an unconscious person.

**Skin contact:** Not applicable – product is for use on skin.

**Eye contact:** Rinse with water for 10 minutes and seek medical advice if irritation persists.

**Ingestion:** Unlikely due to the product's physical properties; if affected, rinse mouth with water and give water to drink. Do not induce vomiting. Seek medical advice.

**Inhalation:** No undue effects in normal circumstances, if affected remove to fresh air and seek medical advice.

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

May cause irritation to skin in sensitive individuals with prolonged contact.

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

None.

#### 5. FIRE-FIGHTING MEASURES

##### 5.1 Extinguishing media

Suitable extinguishing media: Carbon dioxide; dry chemical powder; alcohol or polymer foam.

Unsuitable extinguishing media: High volume water jet

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

Specific hazards during fire-fighting: Irritating/toxic fumes may be released at elevated temperatures.

##### 5.3 Advice for fire-fighters:

Special protective equipment: Wear self-contained breathing apparatus. Use personal protective equipment.

Further information: Standard procedure for chemical fires. Use water spray to cool unopened containers.  
Do not allow fire run-off to enter drains.

#### 6. ACCIDENTAL RELEASE MEASURES

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

No special procedures necessary.

##### 6.2 Environmental precautions

Unlikely to be a cause for concern due to the product's physical properties.

##### 6.3 Methods and materials for containment and cleaning up

Wipe up any liquid spillage with absorbent material such as sand, earth, or vermiculite, and place in a labelled container for disposal in accordance with local/national regulations.

##### 6.4 References to other sections

See sections 8 and 13 for personal protection and disposal information.

#### 7. HANDLING AND STORAGE

##### 7.1 Precautions for safe handling

Handle in accordance with standard good housekeeping practices.

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

Store in a cool, well ventilated area. Protect from frost, heat and sunlight. Incompatible with oxidising agents. Keep away from food, drink and animal feed. Keep container tightly closed. Keep in original container.

##### 7.3 Specific end use(s)

No information available.

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### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**8.1 Control parameters:** Contains no ingredients assigned a Workplace Exposure Limit.

#### 8.2 Exposure controls

**Engineering measures:** No specific engineering measures required.

**Personal protective equipment**

**Respiratory protection:** Not required.

**Hand protection:** Not applicable.

**Eye protection:** Not required.

**Skin and body protection:** Not required.

**Hygiene measures:** Observe good industrial hygiene and safety practices. Do not eat or drink whilst using the product.

**Environmental exposure controls:** Do not discharge into drains or rivers.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

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

<b>State and colour</b>	Colourless liquid absorbed onto cloth wipe.
<b>Odour</b>	Mild soapy
<b>Odour Threshold</b>	No data available
<b>Flammability</b>	Non-flammable, but may be combustible.
<b>Flash point</b>	Not applicable
<b>Lower explosion limit</b>	Not applicable
<b>Upper explosion limit</b>	Not applicable
<b>Explosive properties</b>	Not explosive
<b>Thermal decomposition</b>	No data available
<b>Auto-ignition temperature</b>	Not applicable
<b>Oxidising properties</b>	Non-oxidising
<b>Solubility in water</b>	Dispersible (liquid)
<b>Solubility in other solvents</b>	Not determined
<b>pH</b>	~7.0
<b>Melting point/range</b>	No data available
<b>Boiling point/range</b>	No data available
<b>Density</b>	~1.0
<b>Vapour pressure</b>	No data available
<b>Vapour density</b>	No data available
<b>Partition coefficient: n-octanol/water</b>	No data available
<b>Viscosity (kinematic)</b>	No data available
<b>Evaporation rate</b>	No data available

### 10. STABILITY AND REACTIVITY

<b>10.1 Reactivity</b>	Generally non-reactive.
<b>10.2 Chemical stability</b>	Stable under normal conditions.
<b>10.3 Possibility of hazardous reactions</b>	None if stored and used as directed.
<b>10.4 Conditions to avoid</b>	Naked flames, ignition sources.
<b>10.5 Incompatible materials</b>	Strong oxidising agents. Strong acids.
<b>10.6 Hazardous decomposition products</b>	Oxides of carbon.

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### 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

##### Acute toxicity

Chemical name	Oral (LD50)	Inhalation (LC50)	Dermal (LD50)
Didecyldimethyl Ammonium Chloride	>658 mg/kg (Rat)	No data available	No data available
Quaternary ammonium compounds, Benzyl C8-18- Alkyl dimethyl, chlorides	795 mg/kg (Rat)	No data available	No data available
Polyaminopropyl Biguanide	>2000 mg/kg (Rat)	No data available	>5000 mg/kg (Rat)

<b>Skin corrosion/irritation:</b>	Unlikely to cause skin irritation due to low concentration of ingredients.
<b>Serious eye damage/eye irritation:</b>	Unlikely to cause eye irritation due to low concentration of ingredients.
<b>Respiratory or skin sensitisation:</b>	Contains an ingredient (Polyaminopropyl Biguanide) which may cause sensitisation in some individuals.
<b>Repeated dose toxicity:</b>	Not relevant.
<b>Carcinogenicity:</b>	Contains an ingredient (Polyaminopropyl Biguanide) which has been classified as a suspected carcinogen, however the product itself is not classified as carcinogenic.
<b>Mutagenicity:</b>	Not mutagenic
<b>Toxicity for reproduction:</b>	Not toxic for reproduction.
<b>Specific target organ toxicity (STOT):</b>	Not relevant.
<b>Further information:</b>	No information available.

### 12. ECOLOGICAL INFORMATION

#### 12.1 Toxicity

Chemical name	Species	Test	Value
Didecyldimethyl Ammonium Chloride	Daphnia	LC50 48h	0.06 mg/l
Quaternary ammonium compounds, Benzyl C8-18- Alkyl dimethyl, chlorides	Daphnia	LC50 96h	0.03 mg/l
Polyaminopropyl Biguanide	Daphnia	LC50 48h	0.2 mg/l
	Fish	LC50 96h	0.13 mg/l

<b>12.2 Persistence and degradability</b>	Readily biodegradable.
<b>12.3 Bioaccumulative potential</b>	Not expected to bioaccumulate.
<b>12.4 Mobility in soil</b>	The liquid product is dispersible in water and migrates through soil.
<b>12.5 Results of PBT and vPvB assessment</b>	Contains no PBT or vPvB substances.
<b>12.6 Other adverse effects</b>	Harmful to aquatic life with long-lasting harmful effects.

#### 13. DISPOSAL CONSIDERATIONS

##### 13.1 Waste treatment methods

Disposal operations: Dispose of in accordance with local and national regulations. Do not dispose of waste into sewer.  
Do not dispose of together with household waste. Contact licensed waste disposal company.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Do not burn or use a cutting torch on the empty container.

#### 14. TRANSPORT INFORMATION

Not classified as hazardous for transport purposes.  
Not a marine pollutant.  
UN number not required.

#### 15. REGULATORY INFORMATION

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

###### UK Regulatory References

The Control of Substances Hazardous to Health Regulations 2002 (S.I 2001 No.2677) with amendments.

###### EU Directives

Regulations (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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

###### Statutory Instruments

The Chemicals (Hazard information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

###### Guidance Notes

Health and Safety Executive Workplace Exposure Limits EH40.  
Volatile Organic Compounds (VOC) content: Nil (Directive 1999/13/EC)

##### 15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been performed on this product.

#### 16. OTHER INFORMATION

This safety data sheet is prepared in accordance with Regulation EU 453/2010, amending Regulation (EC) No 1907/2006 (REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals).

Tariff number: 34011900.

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Issued: 24/01/2018; Revision No.2  
Regulation (EU) 453/2010

### Full text of H-statements referred to under sections 2 and 3

H290	May be corrosive to metals
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage
H351	Suspected of causing cancer
H372	Causes damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H411	Toxic to aquatic life with long-lasting effects

### Abbreviations and acronyms

CAS:	Chemical Abstract Service (division of the American Chemical Society). {Section 3}.
RE:	Repeated exposure (section 3)
STOT:	Single Target Organ Toxicity (Section 3 and 11).
LC50:	Lethal Concentration, 50 percent. (Section 11/12).
LD50:	Lethal Dose, 50 percent. (Section 11).
PBT:	Persistent, Bioaccumulative, Toxic. (Section 12).
vPvB:	very Persistent and very Bioaccumulative. (Section 12).

**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.

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