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## SAFETY DATA SHEET

(REACH Regulation (EC) N° 1907/2006 - N° 453/2010)

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### **SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1. Product identifier**

Product name: Pal Disinfectant Wipes

Product code: W20, W/Q64, W65, W66, W67, W70 & SSD001

**1.2. Relevant identified uses of the substance or mixture and uses advised against identified use(s):** Disinfectant wipes for hard surface disinfection

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

Registered company name: Pal International Limited

Address: Bilton Way, Lutterworth, Leicestershire, LE17 4JA, United Kingdom

Telephone: +44 (0) 1455 555 700 Fax: +44 (0) 1455 555 755

Email: [info@palinternational.com](mailto:info@palinternational.com)

[www.palinternational.com](http://www.palinternational.com)

**1.4. Emergency telephone number**

Telephone: +44 (0) 1455 555 742 (09:00 – 17:30)

Telephone: +44 (0) 7725 204 194 (Outside UK Office hours)

[www.palinternational.com](http://www.palinternational.com)

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### **SECTION 2: HAZARDS IDENTIFICATION**

**2.1. Classification of the substance or mixture – according to 67/548/EC, 1999/45/EC, 1272/2008/EC**

According to DSD(67/548/EC), DPD(1999/45/EC) and CLP(1272/2008/EC) this product carries a R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains Polymeric Biguanide Hydrochloride, which may cause an allergic reaction.

**2.2. Label elements**

According to DPD(1999/45/EC) and CLP(1272/2008/EC this product does not require any pictograms.

**2.3. Other hazards**

No other risks known

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### **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

#### **3.1. Substances/Mixtures**

Ingredients	CAS No	EC No	Classification (67/548/EEC)	Classification Regulation (EC) No. 1272/2008	Content (%)
Ethanol	64-17-5	200-578-6	F; R11	-	5-10%
Alkyl dimethyl benzyl ammonium chloride	68391-01-5	269-919-4	Xn; R21/22 C; R34 N; R50	Acute Tox 4: H302, H312; Skin Corr 1B; H314; Aquatic Acute 1: H400	<0.5%
Alkyl dimethyl ethylbenzyl ammonium chloride	85409-23-0	287-090-7	Xn; R21/22 C; R34 N; R50	Acute Tox 4: H302, H312; Skin Corr 1B; H314; Aquatic Acute 1: H400	<0.5%
Poly (hexamethylene biguanide) hydrochloride	27083-27-8	-	Xn; R22 Xi; R37/38 Xi; R41, R43 N; R50/53	Acute Tox 4: H302, Skin Irrit 2: H315; Skin Sen 1: H317; Eye Dam 1: H318; Aquatic Acute 1: H400; Aquatic Chronic 1: H410	≤0.2%
5-chloro-2- methyl-2H- isothiazol-3-one & 2-methyl-2H- isothiazol-3-one	55965-84-9	-	Xn; R23/24/25 Xi; R43 C; R34 N; R50/53		<0.01%

For the full text of the R-phrases mentioned in this section, see Section 16  
For the full text of the H-statements mentioned in this section, see Section 16

### **SECTION 4: FIRST AID MEASURES**

#### **4.1. Description of first aid measures**

##### **General**

As a general rule, in case of doubt or if symptoms persist, always call a doctor.  
NEVER induce swallowing in an unconscious person.

##### **Inhalation**

Remove from exposure, rest and keep warm. Obtain medical attention for symptoms of difficulty in breathing.

##### **Contact with eyes**

Wash thoroughly with plenty of clean water. If there is any redness, pain or visual impairment, consult an ophthalmologist.

##### **Skin contact**

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Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner. If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital

#### **Ingestion**

Wash out mouth thoroughly with water. Do not induce vomiting.  
Seek medical attention immediately, showing the label.

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### **SECTION 5: FIREFIGHTING MEASURES**

#### **5.1. Extinguishing media**

In the event of fire, use specifically suitable extinguishing agents appropriate for the surrounding fire.

##### **5.1.1. Suitable methods of extinction**

Dry chemical agents  
Foam  
Carbon dioxide (CO<sub>2</sub>)  
Water

##### **5.1.2. Unsuitable methods of extinction**

No information available

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

No Information available

#### **5.3. Advice for firefighters**

Only suitably trained personnel should attempt to tackle fires. Do not stay in danger zone without respiratory protective equipment and protective clothing. Prevent fire fighting water entering watercourses or ground-water.

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### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

Consult the safety measures listed under headings 7 and 8.

#### **6.2. Environmental precautions**

Do not allow to enter sewerage system

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

Clean preferably with a detergent, do not use solvents.

#### **6.4. Reference to other sections**

For recommended personal protective equipment see Section 8.  
For disposal considerations see Section 13.

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### **SECTION 7: HANDLING AND STORAGE**

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Requirements relating to storage premises apply to all facilities where the mixture is handled.

**7.1. Precautions for safe handling**

No special precautions are required if used as directed.

**Fire prevention**

No special precautions are required if used as directed.

**Recommended equipment and procedures**

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations

**Prohibited equipment and procedures**

No smoking, eating or drinking in areas where the mixture is used.

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

Store in a dry place separated from strong oxidants and strong acid.

**Storage**

Keep the canister tightly closed in a dry, well-ventilated place

**Packaging**

No special precautions are required if used as directed.

**7.3. Specific end use(s)**

No data available.

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. Control parameters**

**Occupational exposure limits**

Ingredient	Std	TWA – 8hrs		STEL – 15min	
		1000ppm	1920mg/m <sup>3</sup>	-	-
Ethanol	WEL				

**8.2. Exposure controls**

**8.2.1 Appropriate engineering controls**

No special engineering controls are required if used as directed.

**8.2.2 Individual protection measure, such as personal protective equipment**

**Eye / face protection**

Avoid contact with eyes.

Provide eyewash stations in facilities where the product is handled constantly.

**Skin protection**

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No special personal protective equipment is required if used as directed.

#### **Respiratory protection**

No special personal protective equipment is required if used as directed.

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### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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

Appearance	Wet Nonwoven Wipe Material
Odour	Slight Chemical Odour
Odour threshold	Not available
pH	pH 4 to 8
Melting point / freezing point	Not available
Boiling point / range	Not available
Flash point	>60°C
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Explosion limits	Not available
Vapour pressure	Not available
Vapour density	Not available
Relative density	Not available
Solubility in water	All impregnated components 100% soluble. Non-woven is not soluble.
Solubility in other solvents	Not available
Viscosity	Not available
Explosive properties	Not available
Oxidising properties	Not available

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### **SECTION 10: STABILITY AND REACTIVITY**

#### **10.1. Reactivity**

The product is not reactive under recommended storage and handling conditions (see section 7).

#### **10.2. Chemical stability**

This product is stable under the recommended handling and storage conditions (see section 7).

#### **10.3. Possibility of hazardous reactions**

No specific hazardous reactions are expected to occur.

#### **10.4. Conditions to avoid**

Extreme temperatures  
Exposure to direct sunlight

**10.5. Incompatible materials**

Avoid contact with strong oxidising agents. Do not use the wipes with anionic materials and soaps, which reduce the life and antibacterial effectiveness of the wipes

**10.6. Hazardous decomposition products**

The thermal decomposition may release/form carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>)

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**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1. Information on toxicological effects**

Repeated or prolonged contact with the mixture may cause removal of natural oil from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

**Mixture**

No toxicological data available for the mixture.

**Skin corrosion / irritation**

No irritation concerns if used as directed.

**Serious eye damage / irritation:**

No irritation concerns if used as directed.

**Respiratory or skin sensitisation**

No irritation concerns if used as directed.

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**SECTION 12: ECOLOGICAL INFORMATION**

**12.1. Toxicity Substances**

No aquatic toxicity data available for the substances.

**Mixtures**

No aquatic toxicity data available for the mixture.

**12.2. Persistence and degradability**

No data available.

**12.3. Bioaccumulative potential**

No data available.

**12.4. Mobility in soil**

No data available.

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

No data available.

**12.6. Other adverse effects**

No data available.

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## **SECTION 13: DISPOSAL CONSIDERATIONS**

### **13.1. Waste treatment methods**

Chemical residues, including contaminated canisters, are generally classified as hazardous waste, and as such are covered by regulations which vary according to location. Contact your local waste disposal authority for advice, or pass to a licensed chemical disposal company.

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## **SECTION 14: TRANSPORT INFORMATION**

This product is not classified as a dangerous good for transport in regards to the Transport Regulation.

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## **SECTION 15: REGULATORY INFORMATION**

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

Not classified according to DSD(67/548/EC), DPD(1999/45/EC) and CLP(1272/2008/EC)  
The product contains Polymeric Biguanide Hydrochloride, which may cause an allergic reaction.

### **15.2. Chemical safety assessment**

Not available

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## **SECTION 16: OTHER INFORMATION**

Full text of Risk Phrases and Safety Phrases mentioned under sections 2 and 3:

R11:	Highly flammable
R21/22:	Harmful in contact with skin and if swallowed
R22:	Harmful if swallowed
R23/24/25:	Toxic by inhalation, in contact with skin and if swallowed
R34:	Causes burns
R37/38:	Irritating to respiratory system and skin
R41:	Risk of serious damage to eyes
R43:	May cause sensitisation by skin contact
R50:	Very toxic to aquatic organisms
R50/53:	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Full text of Hazard statements and Precautionary Statement mentioned under sections 2 and 3:

H302:	Harmful if swallowed
H312:	Harmful in contact with skin
H314:	Causes severe skin burns and eye damage
H315:	Causes skin irritation
H317:	May cause an allergic reaction
H318:	Causes serious eye damage
H400:	Very toxic to aquatic life
H410:	Very toxic to aquatic life with long lasting effects.

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#### **Abbreviations:**

ADR: European agreement concerning the international carriage of dangerous goods by Road.  
IMDG: International Maritime Dangerous Goods.  
IATA: International Air Transport Association.  
ICAO: International Civil Aviation Organisation  
RID: Regulations concerning the International carriage of Dangerous goods by rail.

This data sheet was compiled using external data from our supplier's and independent laboratories. This safety data sheet contains all the necessary information to conduct a COSHH assessment. This document in its own right does NOT constitute the users own assessment of workplace risk as required by Health and safety legislation.

The information given in this safety data sheet is given in good faith and to the best of our knowledge is correct. No liability is accepted for any loss or damage arising directly from the use of the company's products or from the use of the information given in this safety data sheet, In particular, financial or economical loss unless required by law.



## Technical Information:

Micro organism	Testing Standard	Contact time	Pass
<b>Bactericidal</b>			
Staphylococcus aureus	EN1276	30 sec	✓
Pseudomonas aeruginosa	EN1276	30 sec	✓
Enterococcus hirae	EN1276	30 sec	✓
Escherichia.coli	EN1276	30 sec	✓
Staphylococcus aureus	EN13697	30 sec	✓
Pseudomonas aeruginosa	EN13697	30 sec	✓
Enterococcus hirae	EN13697	30 sec	✓
Escherichia.coli	EN13697	30 sec	✓
Escherichia coli O157:H7	EN13697	30 sec	✓
Salmonella choleraesuis	EN13697	30 sec	✓
Serratia marcescens	EN13697	30 sec	✓
Shigella sonnei	EN13697	30 sec	✓
Listeria monocytogenes	EN13697	30 sec	✓
Lactobacillus brevis	EN13697	30 sec	✓
Campylobacter jejuni	EN13697	30 sec	✓
Klebsiella pneumoniae/NDM1	EN13697	60 sec	✓
Staphylococcus aureus	EN1656	30 sec	✓
Pseudomonas aeruginosa	EN1656	30 sec	✓
Enterococcus hirae	EN1656	30 sec	✓
Proteus vulgaris	EN1656	30 sec	✓
MRSA	EN13727	60 sec	✓
VRE	EN13727	60 sec	✓

## Yeasticidal & Fungicidal

Candida albicans	EN1650	30 sec	✓
Aspergillus niger	EN1650	30 sec	✓
Candida albicans	EN13697	30 sec	✓
Aspergillus niger	EN13697	30 sec	✓

## Virucidal

Norovirus	Blu Test testing protocol	5 min	✓
H1N1	Blu Test testing protocol	5 min	✓
HIV	Blu Test testing protocol	5 min	✓
Hepatitis	Blu Test testing protocol	5 min	✓
Feline Coronavirus SARS	Blu Test testing protocol	30 min	✓

## Sporicidal

Bacillus cereus	EN13704	5 min	✓
Bacillus subtilis	EN13704	5 min	✓

## Tuberculocidal

Mycobacterium.terrae	EN14348	5 min	✓
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