According to Regulation (EC) No 1907/2006

Pal Clean + Protect Hands & Surface Sanitising Wipes

Version number: 2
Issued: 2024-03-25

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name

Pal Clean + Protect Hands & Surface Sanitising Wipes

Article No.

Q223110, S210110, S212520, S217110, W213520, W214520, W216520, W223110, W227110, W229520

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

Relevant identified uses

Cleaning and disinfecting wipes for hard surfaces.
For professional users only.

1.3. Details of the supplier of the safety data sheet

Supplier

Pal Hygiene Products Limited

Address
Unit 5B & Unit 5H, Fingal Bay Business Park
Balbriggan
K32 NY57 Co. Dublin
Ireland

Telephone
+44 (0) 1455 555 700

Email
info@palinternational.com

Manufacturer

Pal Internationl Ltd.

Address
Bilton Way, Lutterworth
LE17 4JA Leicestershire
United Kingdom

Telephone
+44(0)1455 555 700

Email
info@palinternational.com

1.4. Emergency telephone number

112

Available outside office hours
Yes

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Classification
Hazardous to the aquatic environment — Chronic hazard category 3

Hazard statements
H412

2.2. Label elements

Hazard statements
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements
P273 Avoid release to the environment.

2.3. Other hazards

This product does not contain any PBT or vPvB substances. Endocrine disrupting properties: No

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-phrase M factor acute M factor chronic	Note
Alkyl (C12-16) dimethylbenzyl ammonium chloride	68424-85-1 270-325-2 - -	>0 - <0.5%	Acute Tox. 4 - oral, Skin Corr. 1B, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 1	H302, H314, H318, H400, H410 M-acut=10 M-chro=1	-
Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides	85409-23-0 287-090-7 01-2120771812-51-xxxx -	>0 - <0.5%	Acute Tox. 4 - oral, Skin Corr. 1B, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 1	H302, H314, H318, H400, H410 M-acut=10 M-chro=1	-
Didecyldimethylammonium chloride	7173-51-5 230-525-2 01-2119945987-15-xxxx 612-131-00-6	>0 - <0.5%	Acute Tox. 4 - oral, Skin Corr. 1B, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 2	H302, H314, H318, H400, H411 M-acut=10 -	-
Propan-2-ol	67-63-0 200-661-7 01-2119457558-25-xxxx 603-117-00-0	>0 - <0.25%	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3	H225, H319, H336 - -	-

Substance additional information
Didecyldimethylammonium chloride:
ATE (Oral) = 238 mg/kg

Alkyl (C12-16) dimethylbenzyl ammonium chloride:
ATE (Oral) = 344 mg/kg

Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides:
ATE (Oral) = 344 mg/kg

For the complete text of H- / EUH-statements mentioned in this section, see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation
If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

Skin contact
Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.

Eye contact
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if any discomfort continues.

Ingestion
Rinse mouth Get medical attention if symptoms occur.

4.2. Most important symptoms and effects, both acute and delayed
No specific symptoms noted.

4.3. Indication of any immediate medical attention and special treatment needed
Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media
Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media
None known.

5.2. Special hazards arising from the substance or mixture
Keep away from heat and sources of ignition.
In case of fire hazardous decomposition products may be produced such as:
carbon oxides
nitrogen oxides (NOx)
sulphur oxides
oxides of phosphorus

5.3. Advice for firefighters
Special protective equipment for fire-fighters
Use personal protective equipment as required.

Other
Measures in case of fire
Collect contaminated fire extinguishing water separately. This must not be discharged into drains. If risk of water pollution occurs, notify appropriate authorities.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Ensure cleanup is conducted by trained personnel. Stop leak if safe to do so.

6.2. Environmental precautions

Do not discharge into drains, water courses or onto the ground. If risk of water pollution occurs, notify appropriate authorities.

6.3. Methods and material for containment and cleaning up

Eliminate all ignition sources if safe to do so. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

6.4. Reference to other sections

For personal protection, see section 8.
For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Preventive handling precautions

Avoid contact with eyes. Avoid release to the environment.

General hygiene

Handle in accordance with good industrial hygiene and safety practice. Wash contaminated skin thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Keep away from direct sunlight. Keep cool. Recommended storage temperature: 0°C - 40°C

7.3. Specific end use(s)

Wet wipe. Manual process for cleaning.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure limits

Ingredient	CAS No. EC No.	Exposure limit ppm / mg/m³	Short-term exposure limit ppm / mg/m³	Source	Remark	Year
Propan-2-ol	67-63-0 200-661-7	400 999	500 1250	EH40/2005	-	-

8.2. Exposure controls

Appropriate engineering controls

Provide good ventilation.

Eye / face protection

No special protective equipment required.

Hand protection
No special protective equipment required.

Other skin protection
Given the identified use of the product additional skin and body protection should not be required.

Respiratory protection
Under normal conditions of use respiration protection should not be required.

Thermal hazards
Not applicable.

Environmental exposure controls
Keep containers tightly closed. Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state
Liquid-impregnated wipe

Colour
White.

Odour
Slight chemical odour

Melting point / freezing point
No data available

Boiling point or initial boiling point and boiling range
No data available

Flammability
No data available

Lower and upper explosion limit
No data available

Flash point
> 60 °C
Method
Abel closed cup

Auto-ignition temperature
No data available

Decomposition temperature
No data available

pH
6.8 - 8

Kinematic viscosity
No data available

Solubility
No data available

Partition coefficient n-octanol/water
No data available

Vapour pressure
No data available

Density and/or relative density
No data available

Relative vapour density
No data available

Particle characteristics
Not applicable

9.2. Other information
No other information noted.

SECTION 10: Stability and reactivity

10.1. Reactivity
There are no known reactivity hazards associated with this product.

10.2. Chemical stability
Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions
Will not polymerise.

10.4. Conditions to avoid
Heat, sparks, flames.

10.5. Incompatible materials
No specific material or group of materials is likely to react with the product to produce a hazardous situation.

10.6. Hazardous decomposition products
None at ambient temperatures.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Based on available data, the classification criteria are not met.

Product / Substance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Duration of exposure	Test animals	Method / Guideline	Remarks
Alkyl (C12-16) dimethylbenzyl ammonium chloride 68424-85-1 / 270-325-2	LD50	344 mg/kg	Oral	-	Rat	-	-
Alkyl (C12-16) dimethylbenzyl ammonium chloride 68424-85-1 / 270-325-2	LD50	3412 mg/kg	Dermal	-	Rabbit	-	-
Quaternary ammonium compounds, C12-14-alkyl[(ethyl-phenyl)methyl] dimethyl, chlorides 85409-23-0 / 287-090-7	LD50	344 mg/kg	Oral	-	Rat	OECD Test Guideline 401	Information given is based on data obtained from similar sub-stances.
Quaternary ammonium compounds, C12-14-alkyl[(ethyl-phenyl)methyl] dimethyl, chlorides 85409-23-0 / 287-090-7	LC50	2300 mg/kg	Dermal	-	Rabbit	-	Information given is based on data obtained from similar sub-stances.
Propan-2-ol 67-63-0 / 200-661-7	LD50	5840 mg/kg	Oral	-	Rat	OECD Test Guideline 401	-
Propan-2-ol 67-63-0 / 200-661-7	LC50	> 25 mg/l	Inhalation	6 hours	Rat	OECD Test Guideline 403	Vapour

Product / Substance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Duration of exposure	Test animals	Method / Guideline	Remarks
Propan-2-ol 67-63-0 / 200-661-7	LD50	13 900 mg/kg	Dermal	-	Rabbit	OECD Test Guideline 402	-
Propan-2-ol 67-63-0 / 200-661-7	LD50	5045 mg/kg	Oral	-	Rat	-	-
Propan-2-ol 67-63-0 / 200-661-7	LD50	12800 mg/kg	Dermal	-	Rabbit	-	-
Didecyl-dimethylam-monium chlor-ide 7173-51-5 / 230-525-2	LD50	238 mg/kg	Oral	-	Rat	OECD 401	-
Didecyl-dimethylam-monium chlor-ide 7173-51-5 / 230-525-2	LD50	3342 mg/kg	Dermal	-	Rabbit	-	-

Skin corrosion/irritation
Based on available data, the classification criteria are not met.

Serious eye damage/irritation
Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation
Based on available data, the classification criteria are not met.

Germ cell mutagenicity
Based on available data, the classification criteria are not met.

Carcinogenicity
Based on available data, the classification criteria are not met.

STOT-single exposure
Based on available data, the classification criteria are not met.

Aspiration hazard
Based on available data, the classification criteria are not met.

Symptoms related to the physical, chemical and toxicological characteristics
No specific symptoms noted.

11.2. Information on other hazards

Endocrine disrupting properties
Not applicable.

Other information
No other information noted.

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity
Not classified.

Toxicity
Harmful to aquatic life with long lasting effects.

Acute fish toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
Didecyldimethylammonium chloride 7173-51-5 / 230-525-2	LC50	0.19 mg/l	96 hours	Pimephales promelas
Alkyl (C12-16) dimethylbenzyl ammonium chloride 68424-85-1 / 270-325-2	LC50	0.515 mg/	96 hours	Lepomis macrochirus (Bluegill)

Acute algae toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Endpoint of the test	Species	Method / Guideline
Didecyldimethylammonium chloride 7173-51-5 / 230-525-2	ErC50	0.026 mg/l	96 hours	Growth inhibition	Pseudokirchneriella subcapitata	OECD 201
Alkyl (C12-16) dimethylbenzyl ammonium chlor-	ErC50	0.049 mg/l	72 hours	-	Pseudokirchneriella subcapitata (green algae)	OECD Test Guideline 201

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Endpoint of the test	Species	Method / Guideline
ide 68424-85-1 / 270-325-2						

Acute crustacean toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Endpoint of the test	Species	Method / Guideline
Didecyldimethylammonium chloride 7173-51-5 / 230-525-2	EC50	0.062 mg/l	48 hours	Immobilization	Daphnia magna	-
Alkyl (C12-16) dimethylbenzyl ammonium chloride 68424-85-1 / 270-325-2	EC50	0.016 mg/l	48 hours	-	Daphnia magna (Water flea)	OECD Test Guideline 202

Micro-/macro organism toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Endpoint of the test	Method / Guideline
Didecyldimethylammonium chloride 7173-51-5 / 230-525-2	EC50	11 mg/l	3 hours	Respiration inhibition of activated sludge	OECD 209
Alkyl (C12-16) dimethylbenzyl ammonium chloride 68424-85-1 / 270-325-2	EC50	7.75 mg/l	3 hours	Respiration inhibition of activated sludge	OECD Test Guideline 209

Chronical toxicity

Harmful to aquatic life with long lasting effects.

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
Didecyldimethylammonium chloride 7173-51-5 / 230-525-2	NOEC	0.014 mg/l	21 days	Daphnia magna	-
Didecyldimethylammonium chloride 7173-51-5 / 230-525-2	NOEC	0.032 mg/l	34 days	Danio rerio	OECD 210
Alkyl (C12-16) dimethylbenzyl ammonium chloride 68424-85-1 / 270-325-2	NOEC	0.0322 mg/l	34 days	Pimephales promelas (Fat-head Minnow)	-
Alkyl (C12-16) dimethylbenzyl ammonium chloride 68424-85-1 / 270-325-2	NOEC	0.456 mg/l	96 hours	Lepomis macrochirus (Bluegill)	-
Alkyl (C12-16) dimethylbenzyl ammonium chloride 68424-85-1 / 270-325-2	NOEC	≥ 0.00415 mg/l	21 days	Daphnia magna (Water flea)	-
Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides 85409-23-0 / 287-090-7	NOEC	> 0.00415 mg/l	21 days	Daphnia magna (Water flea)	-

12.2. Persistence and degradability

Persistence and degradability

Product / Substance name CAS / EC no.	Duration	Result	Method / Guideline	Remark
Didecyldimethylammonium chloride 7173-51-5 / 230-525-2	28 days	72%	OECD Test Guideline 301B	The substance is readily biodegradable.
Alkyl (C12-16) dimethyl-	28 days	95.5%	OECD Test Guideline	The substance is readily

Product / Substance name CAS / EC no.	Duration	Result	Method / Guideline	Remark
benzyl ammonium chloride 68424-85-1 / 270-325-2			301B	biodegradable.
Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides 85409-23-0 / 287-090-7	28 days	95.5%	OECD Test Guideline 301B	The substance is readily biodegradable. Information given is based on data obtained from similar substances.

12.3. Bioaccumulative potential

Bioaccumulative potential

Product / Substance name CAS / EC no.	Bioconcentration factor (BCF)	Remark
Alkyl (C12-16) dimethylbenzyl ammonium chloride 68424-85-1 / 270-325-2	79	Does not bioaccumulate

12.4. Mobility in soil

Mobility

No data available.

12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

12.6. Endocrine disrupting properties

Not applicable.

12.7. Other adverse effects

Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal considerations

Where possible recycling is preferred to disposal or incineration. Dispose of waste and residues in accordance with local authority requirements. Do not flush down the toilet. Do not throw in the environment.

Waste code	Waste description
15 02 03	absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02

Please note - an asterisk (*) next to a code denotes that it is HAZARDOUS WASTE.

Other

The waste codes are a recomendation. Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: Transport information

14.1. UN number

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/AND/RID).

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures (CLP).
Directive 2008/98/EC of the European Parliament and of the Council on waste.
Regulation (EC) No. 1907/2006 (REACH), Annex XVII (restrictions): 75

National regulations

Health and Safety at Work etc. Act 1974 (as amended).
Control of Substances Hazardous to Health Regulations 2002 (as amended).
EH40/2005 Workplace Exposure Limits (Fourth Edition 2020).

Users of this product are reminded of their duties under the current Control of Substances Hazardous to Health Regulations and a suitable and sufficient assessment of all the risk should be undertaken before using this product. The guidelines given in the HSE publication COSHH ESSENTIALS - Easy Steps To Control Chemicals gives sound advice for deciding safe working control measures.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Abbreviations

LC50: Deadly concentration for 50 % of a test population (Lethal Concentration).
LD50: Lethal dose for 50 % of a test population (Lethal Dose).
EC50: The concentration of a substance that affects 50 % of a population over a given period of time (Effective Concentration).
LOEC: The lowest concentration at which effects are observed (Lowest Observed Effect Concentration).
NOEC: The concentration at which no effects are observed (No Observed Effect Concentration).
Kow: Partition coefficient octanol/water.Koc: Partitioning coefficient organic carbon/water.
PBT: Persistent, Bioaccumulative, Toxic.
vPvB: very Persistent, very Bioaccumulative.
DNEL: Derived No Effect Level.
PNEC: Predicted No Effect Concentration.
ErC50: The concentration of test substance which results in a 50 percent reduction in growth rate relative to the control within 72 hours exposure.

Evaluation methods for classification

Calculation method.

Phrase meaning

Aquatic Chronic 3 - Hazardous to the aquatic environment — Chronic hazard category 3
Acute Tox. 4 - oral - Acute toxicity, oral, hazard category 4
Skin Corr. 1B - Skin corrosion, hazard category 1B
Eye Dam. 1 - Serious eye damage, hazard category 1
Aquatic Acute 1 - Hazardous to the aquatic environment — Acute hazard category 1
Aquatic Chronic 1 - Hazardous to the aquatic environment — Chronic hazard category 1
Flam. Liq. 2 - Flammable liquids, hazard category 2
Eye Irrit. 2 - Eye irritation, hazard category 2
STOT SE 3 - Specific Target Organ Toxicity — Single exposure, hazard category 3
Aquatic Chronic 2 - Hazardous to the aquatic environment — Chronic hazard category 2
H225 Highly flammable liquid and vapour.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.