

QMP0068

Version number: 2
Issued: 2023-03-24
Replaces SDS: 2023-02-24

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

1.1. Product identifier

Trade name

S520110MPCE, S522110MPCE, S524110MPCE, S625110CE, W520110MPCE, W522110MPCE, W615110MPCE, S529110MPCE

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 International Ltd.

Street address

Bilton Way, Lutterworth
LE17 4JA Leicestershire
United Kingdom

Telephone

+44(0)1455 555 700

Email

info@palinternational.com

1.4. Emergency telephone number

NHS 111

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
Skin irritation, hazard category 2
Eye irritation, hazard category 2

Hazard statements

H315, H319, H412

Description

H412 Harmful to aquatic life with long lasting effects.
H315 Causes skin irritation.
H319 Causes serious eye irritation.

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2.2. Label elements**Hazard statements**

H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P280.1 Wear protective gloves.
 P302 + P352 IF ON SKIN: Wash with plenty of water/
 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

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

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
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	2372-82-9 219-145-8 01-2119980592-29-xxxx -	0.4 - 0.8%	Acute Tox. 3 - oral, Skin Corr. 1B, Eye Dam. 1, STOT RE 2, Aquatic Acute 1, Aquatic Chronic 1	H301, H314, H318, H373, H400, H410 M-acut=10 M-chro=1	*
2-Aminoethanol	141-43-5 205-483-3 01-2119486455-28-xxxx 603-030-00-8	0.4 - 0.8%	Acute Tox. 4 - oral, Acute Tox. 4 - dermal, Skin Corr. 1B, Eye Dam. 1, Acute Tox. 4 - inhalation, Aquatic Chronic 3	H302, H312, H314, H318, H332, H412 - -	**
Didecyldimethylammonium chloride	7173-51-5 230-525-2 01-2119945987-15-xxxx 612-131-00-6	0.4 - 0.8%	Acute Tox. 4 - oral, Skin Corr. 1B, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 2	H302, H314, H318, H400, H411 M-acut=10 -	***
Alpha.-Undecyl-omega-hydroxypoly(oxy-1,2-ethanediyl) branched and linear	127036-24-2 - - -	0.4 - 0.8%	Acute Tox. 4 - oral, Eye Dam. 1	H302, H318 - -	-

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Substance additional information

* ATE oral: > 2000 mg/kg

** STOT SE 3; H335: C ≥ 5 %

ATE oral = 1515 mg/kg

ATE dermal = 1025 mg/kg

*** ATE oral = 238 mg/kg

ATE dermal = 3342 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 cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.

Ingestion

Rinse mouth with water. Call a POISON CENTRE/doctor if you feel unwell.

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

Do not use water jet as an extinguisher, as this will spread the fire.

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5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products:
nitrogen oxides (NO_x)
carbon oxides
sulphur oxides
oxides of phosphorus

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Use protective equipment appropriate for surrounding materials. Wear personal protective equipment.

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

Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

6.4. Reference to other sections

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

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

7.2. Conditions for safe storage, including any incompatibilities

Do not store together with oxidizing and self-igniting products. Keep out of reach of children. Keep container tightly closed. Recommended storage temperature: 0°C - 35°C

7.3. Specific end use(s)

Wet wipe. Manual process for cleaning.

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SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure limits**

Occupational Exposure Limit, 2-aminoethanol:

8 hours - 2.5 mg/m³; 1 ppmShort term - 7.6 mg/m³; 3 ppm

Skin

Commission Directive 2006/15/EC

National occupational exposure limits

Ingredient	CAS No. EC No.	Exposure limit ppm / mg/m ³	Short-term exposure limit ppm / mg/m ³	Source	Remark	Year
2-Aminoethanol	141-43-5 205-483-3	1 2.5	3 7.6	EH40/2005	Sk - Can be absorbed through the skin	-

DNEL/DMEL

Product/Substance name (CAS No./EC No.)	Type	Exposure	Value	Population	Effects
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine (2372-82-9/219-145-8)	DNEL	Chronic (long term) Inhalation	2.35 mg/m ³	Workers	Systemic
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine (2372-82-9/219-145-8)	DNEL	Chronic (long term) Dermal	0.91 mg/kg	Workers	Systemic
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine (2372-82-9/219-145-8)	DNEL	Chronic (long term) Inhalation	0.7 mg/m ³	Consumers	Systemic
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine (2372-82-9/219-145-8)	DNEL	Chronic (long term) Dermal	0.54 mg/kg	Consumers	Systemic
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine (2372-82-9/219-145-8)	DNEL	Chronic (long term) Oral	0.2 mg/kg	Consumers	Systemic
2-Aminoethanol (141-43-5/205-483-3)	DNEL	Chronic (long term) Inhalation	3.3 mg/m ³	Workers	Local
2-Aminoethanol (141-43-5/205-483-3)	DNEL	Chronic (long term) Inhalation	2 mg/m ³	Consumers	Local
2-Aminoethanol (141-43-5/205-483-3)	DNEL	Chronic (long term) Oral	3.75 mg/kg	Consumers	Systemic
2-Aminoethanol	DNEL	Chronic (long term)	0.24 mg/kg	Consumers	Systemic

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Product/Substance name (CAS No./EC No.)	Type	Exposure	Value	Population	Effects
(141-43-5/205-483-3)		Dermal			
Didecyldimethylammonium chloride (7173-51-5/230-525-2)	DNEL	Chronic (long term) Inhalation	5.39 mg/m ³	Workers	Systemic
Didecyldimethylammonium chloride (7173-51-5/230-525-2)	DNEL	Acute (short term) Inhalation	5.39 mg/m ³	Workers	Systemic
Didecyldimethylammonium chloride (7173-51-5/230-525-2)	DNEL	Chronic (long term) Dermal	1.55 mg/kg	Workers	Systemic
Didecyldimethylammonium chloride (7173-51-5/230-525-2)	DNEL	Acute (short term) Dermal	1.55 mg/kg	Workers	Systemic

PNEC/PEC

Product/Substance name (CAS No./EC No.)	Type	Environmental compartment	Value
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine (2372-82-9/219-145-8)	PNEC	Freshwater	0.001 mg/kg
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine (2372-82-9/219-145-8)	PNEC	Sediment (freshwater)	8.5 mg/kg
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine (2372-82-9/219-145-8)	PNEC	Soil	45.34 mg/kg
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine (2372-82-9/219-145-8)	PNEC	Sediment (marine water)	0.85 mg/kg
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine (2372-82-9/219-145-8)	PNEC	Sewage Treatment Plant	1.33 mg/kg
2-Aminoethanol (141-43-5/205-483-3)	PNEC	Soil	0.0367 mg/kg
2-Aminoethanol (141-43-5/205-483-3)	PNEC	Freshwater	0.085 mg/l
2-Aminoethanol (141-43-5/205-483-3)	PNEC	Sediment (freshwater)	0.434 mg/kg
2-Aminoethanol (141-43-5/205-483-3)	PNEC	Marine water	0.0085 mg/l
2-Aminoethanol (141-43-5/205-483-3)	PNEC	Sediment (marine water)	0.0434 mg/kg
2-Aminoethanol (141-43-5/205-483-3)	PNEC	Sewage Treatment Plant	100 mg/l
2-Aminoethanol (141-43-5/205-483-3)	PNEC	Intermittent releases	0.028 mg/l
Didecyldimethylammonium chloride	PNEC	Soil	1.4 mg/kg

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Product/Substance name (CAS No./EC No.)	Type	Environmental compartment	Value
(7173-51-5/230-525-2)			
Didecyldimethylammonium chloride (7173-51-5/230-525-2)	PNEC	Freshwater	0.002 mg/l
Didecyldimethylammonium chloride (7173-51-5/230-525-2)	PNEC	Sediment (freshwater)	2.82 mg/kg
Didecyldimethylammonium chloride (7173-51-5/230-525-2)	PNEC	Marine water	0.0002 mg/l
Didecyldimethylammonium chloride (7173-51-5/230-525-2)	PNEC	Sediment (marine water)	0.28 mg/kg
Didecyldimethylammonium chloride (7173-51-5/230-525-2)	PNEC	Sewage Treatment Plant	0.595 mg/kg

8.2. Exposure controls**Appropriate engineering controls**

Provide good ventilation.

Eye / face protection

No special protective equipment required.

Hand protection

Protective gloves should be used if there is a risk of direct contact or splash.

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 (clear liquid)

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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

10 - 11

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

1010 g/cm³

Relative vapour density

No data available

Particle characteristics

Not applicable

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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	Test animals	Method / Guideline
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine 2372-82-9 / 219-145-8	LD50	243.6 mg/kg	Oral	Rat - female	OECD 401
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine 2372-82-9 / 219-145-8	LD50	280 mg/kg	Oral	Rat - male	OECD 401
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine 2372-82-9 / 219-	LD50	> 600 mg/kg	Dermal	Rat	OECD 402

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Product / Substance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Test animals	Method / Guideline
145-8					
2-Aminoethanol 141-43-5 / 205-483-3	LD50	1515 mg/kg	Oral	Rat	-
2-Aminoethanol 141-43-5 / 205-483-3	LD50	1025 mg/kg	Dermal	Rabbit	-
Didecyldimethylammonium chloride 7173-51-5 / 230-525-2	LD50	238 mg/kg	Oral	Rat	OECD 401
Didecyldimethylammonium chloride 7173-51-5 / 230-525-2	LD50	3342 mg/kg	Dermal	Rabbit	-

Skin corrosion/irritation

Irritating to skin.

Serious eye damage/irritation

Causes serious eye irritation.

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.

Reproductive toxicity

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

STOT-single exposure

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

STOT-repeated 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.

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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**

Acute hazards to the aquatic environment: 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	Method / Guideline
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine 2372-82-9 / 219-145-8	LC50	0.68 mg/l	96 hours	Oncorhynchus mykiss	OECD 203
Didecyldimethylammonium chloride 7173-51-5 / 230-525-2	LC50	0.19 mg/l	96 hours	Pimephales promelas	-

Acute algae toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Endpoint of the test	Species	Method / Guideline	Remark
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine 2372-82-9 / 219-145-8	NOEC	0.0069 mg/l	72 hours	-	Desmodesmus subspicatus	OECD 201	Growth inhibition
Didecyldimethylammonium	ErC50	0.026 mg/l	96 hours	Growth inhibition	Pseudokirchneriella	OECD 201	-

According to Regulation (EC) No 1907/2006

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Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Endpoint of the test	Species	Method / Guideline	Remark
chloride 7173-51-5 / 230-525-2					subcapitata		

Acute crustacean toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Endpoint of the test	Species
Didecyldimethylammonium chloride 7173-51-5 / 230-525-2	EC50	0.062 mg/l	48 hours	Immobilization	Daphnia magna

Micro-/macro organism toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Endpoint of the test	Species	Method / Guideline	Remark
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine 2372-82-9 / 219-145-8	LC50	> 1000 mg/kg	14 days	-	Eisenia fetida	OECD 207	Respiration inhibition
Didecyldimethylammonium chloride 7173-51-5 / 230-525-2	EC50	11 mg/l	3 hours	Respiration inhibition of activated sludge	-	OECD 209	-

Chronical toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline	Remark
N-(3-	NOEC	0.032 mg/l	21 days	Daphnia magna	OECD 211	Reproduction

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Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline	Remark
aminopropyl)-N-dodecylpropane-1,3-diamine 2372-82-9 / 219-145-8						Test
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	-

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

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**

Dispose of waste and residues in accordance with local authority requirements. Do not flush down the toilet. Do not throw in the environment.

According to Regulation (EC) No 1907/2006

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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 recommendation. Waste codes shall be assigned by the user, based on the area of application where 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).

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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

Changes to previous revision

Classification

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.

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Phrase meaning

Acute Tox. 3 - oral - Acute toxicity, oral, hazard category 3
Skin Corr. 1B - Skin corrosion, hazard category 1B
Eye Dam. 1 - Serious eye damage, hazard category 1
STOT RE 2 - Specific Target Organ Toxicity — Repeated exposure, hazard category 2
Aquatic Acute 1 - Hazardous to the aquatic environment — Acute hazard category 1
Aquatic Chronic 1 - Hazardous to the aquatic environment — Chronic hazard category 1
Acute Tox. 4 - oral - Acute toxicity, oral, hazard category 4
Acute Tox. 4 - dermal - Acute toxicity, dermal, hazard category 4
Acute Tox. 4 - inhalation - Acute toxicity, inhalation, hazard category 4
Aquatic Chronic 3 - Hazardous to the aquatic environment — Chronic hazard category 3
Aquatic Chronic 2 - Hazardous to the aquatic environment — Chronic hazard category 2
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H332 Harmful if inhaled.
H373 May cause damage to organs through prolonged or repeated exposure
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.