*According to Regulation (EC) No 1907/2006*

# Pal TX Surface Disinfectant

**Version number:** 1
**Issued:** 2023-06-15

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

### 1.1. Product identifier

***Trade name***

Pal TX Surface Disinfectant

***Article No.***

W20230T, W64230T, W258230T, W131230T, W233230T, W410230T, W258230, W131230T, W233230T, Q233230T2

### 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

***Description***

H412 Harmful to aquatic life with long lasting effects.

### 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

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

| Chemical name | CAS No.<br>EC No.<br>REACH No.<br>Index No. | Concentration | Classification | H-phrase<br>M factor acute<br>M factor chronic | Note |
|---|---|---|---|---|---|
| N-(3-aminopropyl)-N-dodecyl-propane-1,3-diamine | 2372-82-9<br>219-145-8<br>01-2119980592-29-xxxx<br>- | 0.1 - <0.3% | 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<br>M-acut=10<br>M-chro=1 | * |

***Substance additional information***

* ATE oral: > 2000 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.

**5.2. Special hazards arising from the substance or mixture**
Hazardous decomposition products:
nitrogen oxides (NOx)
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.

### 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 - 40°C

### 7.3. Specific end use(s)

Wet wipe. Manual process for cleaning.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

*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/m³ | 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/m³ | 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 |

*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 |

### 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. Store in a demarcated bunded area to prevent release to drains and/or watercourses.

## SECTION 9: Physical and chemical properties

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

***Physical state***
Liquid-impregnated wipe

***Colour***
Blue (clear liquid)

***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***
7 - 8.5

***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 | 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 / 219-145-8 | LD50 | > 600 mg/kg | Dermal | Rat | OECD 402 |

***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***

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 |

***Acute algae toxicity***

| Product / Substance name CAS / EC no. | Measurement type | Value / Result | Duration of exposure | 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 |

***Micro-/macro organism toxicity***

| Product / Substance name CAS / EC no. | Measurement type | Value / Result | Duration of exposure | Species | Method / Guideline | Remark |
|---|---|---|---|---|---|---|
| N-(3-aminopropyl)-N-dodecyl- | LC50 | > 1000 mg/kg | 14 days | Eisenia fetida | OECD 207 | Respiration inhibition |

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

***Chronical toxicity***

| Product / Substance name CAS / EC no. | Measurement type | Value / Result | Duration of exposure | Species | Method / Guideline | Remark |
|---|---|---|---|---|---|---|
| N-(3-aminopropyl)-N-dodecyl-propane-1,3-diamine 2372-82-9 / 219-145-8 | NOEC | 0.032 mg/l | 21 days | Daphnia magna | OECD 211 | Reproduction Test |

**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.

| 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).
Directive 2008/98/EC of the European Parliament and of the Council on waste.

***National regulations***

No data available

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out.

*According to Regulation (EC) No 1907/2006*

# Pal TX Surface Disinfectant

**Version number:** 1
**Issued:** 2023-06-15

## 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.

***Phrase meaning***

Aquatic Chronic 3 - Hazardous to the aquatic environment — Chronic hazard category 3
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
H301 Toxic if swallowed.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
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.
H412 Harmful to aquatic life with long lasting effects.