

# Pal TX Hand Sanitiser

Version number: 1  
Issued: 2023-03-24

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

### 1.1. Product identifier

**Trade name**  
QMP0003, W68230

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

**Relevant identified uses**  
Wipes for sanitising hands.  
For professional users only.

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

**Supplier**  
Pal Hygiene Products Limited

Street 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

### 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**  
Flammable liquids, hazard category 2  
Eye irritation, hazard category 2

**Hazard statements**  
H225, H319

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## 2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

### Hazard pictograms



### Signal word

Danger

### Hazard statements

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

### Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P403 + P235 Store in a well-ventilated place. Keep cool.

## 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
Ethanol	64-17-5 200-578-6 01-2119457610-43-xxxx 603-002-00-5	≥36 - <52%	Flam. Liq. 2, Eye Irrit. 2	H225, H319 - -	-
Propan-2-ol	67-63-0 200-661-7 01-2119457558-25-xxxx 603-117-00-0	<7.5%	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3	H225, H319, H336 - -	-
Glycerol	56-81-5 200-289-5 - -	2 - 2.5%	-	- - -	-
2-phenoxyethanol	122-99-6 204-589-7 - 603-098-00-9	≤1%	Acute Tox. 4 - oral, Eye Dam. 1, STOT SE 3	H302, H318, H335 - -	-

**Substance additional information**

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**

No specific first aid measures noted. Call a physician if symptoms occur.

**Eye contact**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Ingestion**

Rinse mouth with water. Get medical attention if symptoms occur.

**4.2. Most important symptoms and effects, both acute and delayed****Inhalation**

Vapours have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Irritation of nose and throat.

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### **Eye contact**

Causes eye irritation.

### **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**

high volume water jet

### **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 (NO<sub>x</sub>)

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**

Remove all sources of ignition. Stop leak if safe to do so. Ensure cleanup is conducted by trained personnel. Ensure adequate ventilation. Avoid inhalation of vapours. Avoid contact with eyes.

### **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.

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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Preventive handling precautions

Use only with adequate ventilation. 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

Incompatible with oxidizing agents. Keep out of reach of children. Keep container tightly closed. Keep away from direct sunlight. Keep cool. Recommended storage temperature: -10°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
Ethanol (64-17-5/200-578-6)	DNEL	Chronic (long term) Inhalation	950 mg/m <sup>3</sup>	Workers	Systemic
Ethanol (64-17-5/200-578-6)	DNEL	Acute (short term) Inhalation	1900 mg/m <sup>3</sup>	Workers	Local
Ethanol (64-17-5/200-578-6)	DNEL	Chronic (long term) Dermal	343 mg/kg bw/day	Workers	Systemic
Ethanol (64-17-5/200-578-6)	DNEL	Chronic (long term) Inhalation	114 mg/m <sup>3</sup>	Consumers	Systemic
Ethanol (64-17-5/200-578-6)	DNEL	Acute (short term) Inhalation	950 mg/m <sup>3</sup>	Consumers	Local
Ethanol (64-17-5/200-578-6)	DNEL	Chronic (long term) Dermal	206 mg/kg bw/day	Consumers	Systemic
Ethanol (64-17-5/200-578-6)	DNEL	Chronic (long term) Oral	87 mg/kg bw/day	Consumers	Systemic
Propan-2-ol (67-63-0/200-661-7)	DNEL	Chronic (long term) Dermal	888 mg/kg bw/day	Workers	Systemic
Propan-2-ol (67-63-0/200-661-7)	DNEL	Chronic (long term) Inhalation	500 mg/m <sup>3</sup>	Workers	Systemic
Propan-2-ol (67-63-0/200-661-7)	DNEL	Chronic (long term) Dermal	319 mg/kg bw/day	Consumers	Systemic
Propan-2-ol	DNEL	Chronic (long term)	89 mg/m <sup>3</sup>	Consumers	Systemic

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Product/Substance name (CAS No./EC No.)	Type	Exposure	Value	Population	Effects
(67-63-0/200-661-7)		Inhalation			
Propan-2-ol (67-63-0/200-661-7)	DNEL	Chronic (long term) Oral	26 mg/kg bw/day	Consumers	Systemic
Glycerol (56-81-5/200-289-5)	DNEL	Chronic (long term) Oral	229 mg/kg bw/day	Consumers	Systemic
Glycerol (56-81-5/200-289-5)	DNEL	Chronic (long term) Inhalation	33 mg/m <sup>3</sup>	Consumers	Local
Glycerol (56-81-5/200-289-5)	DNEL	Chronic (long term) Inhalation	56 mg/m <sup>3</sup>	Workers	Local
2-phenoxyethanol (122-99-6/204-589-7)	DNEL	Chronic (long term) Dermal	20.83 mg/kg	Workers	Systemic
2-phenoxyethanol (122-99-6/204-589-7)	DNEL	Chronic (long term) Inhalation	5.7 mg/m <sup>3</sup>	Workers	Systemic
2-phenoxyethanol (122-99-6/204-589-7)	DNEL	Chronic (long term) Dermal	10.42 mg/kg	Consumers	Systemic
2-phenoxyethanol (122-99-6/204-589-7)	DNEL	Chronic (long term) Inhalation	2.41 mg/m <sup>3</sup>	Consumers	Systemic
2-phenoxyethanol (122-99-6/204-589-7)	DNEL	Chronic (long term) Oral	9.23 mg/m <sup>3</sup>	Consumers	Systemic
2-phenoxyethanol (122-99-6/204-589-7)	DNEL	Acute (short term) Oral	9.23 mg/m <sup>3</sup>	Consumers	Systemic
2-phenoxyethanol (122-99-6/204-589-7)	DNEL	Chronic (long term) Inhalation	5.7 mg/m <sup>3</sup>	Workers	Local

PNEC/PEC

Product/Substance name (CAS No./EC No.)	Type	Environmental compartment	Value
Ethanol (64-17-5/200-578-6)	PNEC	Freshwater	0.96 mg/l
Ethanol (64-17-5/200-578-6)	PNEC	Marine water	0.79 mg/l
Ethanol (64-17-5/200-578-6)	PNEC	Intermittent releases	2.75 mg/l
Ethanol (64-17-5/200-578-6)	PNEC	Sewage Treatment Plant	580 mg/l
Ethanol (64-17-5/200-578-6)	PNEC	Sediment (freshwater)	3.6 mg/kg dwt
Ethanol (64-17-5/200-578-6)	PNEC	Sediment (marine water)	2.9 mg/kg dwt

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Product/Substance name (CAS No./EC No.)	Type	Environmental compartment	Value
Ethanol (64-17-5/200-578-6)	PNEC	Soil	0.63 mg/kg dwt
Ethanol (64-17-5/200-578-6)	PNEC	Oral (Secondary Poisoning)	380 mg/kg food
Propan-2-ol (67-63-0/200-661-7)	PNEC	Freshwater	140.9 mg/l
Propan-2-ol (67-63-0/200-661-7)	PNEC	Marine water	140.9 mg/l
Propan-2-ol (67-63-0/200-661-7)	PNEC	Intermittent releases	140.9 mg/l
Propan-2-ol (67-63-0/200-661-7)	PNEC	Sewage Treatment Plant	2251 mg/l
Propan-2-ol (67-63-0/200-661-7)	PNEC	Soil	28 mg/kg
Propan-2-ol (67-63-0/200-661-7)	PNEC	Oral (Secondary Poisoning)	160 mg/kg food
Propan-2-ol (67-63-0/200-661-7)	PNEC	Sediment	552 mg/kg dwt
Glycerol (56-81-5/200-289-5)	PNEC	Soil	0.141 mg/kg
Glycerol (56-81-5/200-289-5)	PNEC	Sewage Treatment Plant	1000 mg/l
Glycerol (56-81-5/200-289-5)	PNEC	Intermittent releases	8.85 mg/l
Glycerol (56-81-5/200-289-5)	PNEC	Freshwater	0.885 mg/l
Glycerol (56-81-5/200-289-5)	PNEC	Marine water	0.0885 mg/l
Glycerol (56-81-5/200-289-5)	PNEC	Sediment (freshwater)	3.3 mg/kg
Glycerol (56-81-5/200-289-5)	PNEC	Sediment (marine water)	0.33 mg/kg
2-phenoxyethanol (122-99-6/204-589-7)	PNEC	Freshwater	0.943 mg/l
2-phenoxyethanol (122-99-6/204-589-7)	PNEC	Sewage Treatment Plant	24.8 mg/l
2-phenoxyethanol (122-99-6/204-589-7)	PNEC	Intermittent releases	3.44 mg/l
2-phenoxyethanol (122-99-6/204-589-7)	PNEC	Marine water	0.0943 mg/l
2-phenoxyethanol	PNEC	Sediment (freshwater)	7.2366

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Product/Substance name (CAS No./EC No.)	Type	Environmental compartment	Value
(122-99-6/204-589-7)			mg/kg
2-phenoxyethanol (122-99-6/204-589-7)	PNEC	Sediment (marine water)	0.7237 mg/kg
2-phenoxyethanol (122-99-6/204-589-7)	PNEC	Soil	1.26 mg/kg

**8.2. Exposure controls****Appropriate engineering controls**

Provide good ventilation.

**Eye / face protection**

Wear approved safety goggles.

**Hand protection**

Not applicable.

**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**

Blue (clear liquid)

**Odour**

Alcohols

**Melting point / freezing point**

-20 °C

**Boiling point or initial boiling point and boiling range**

79.5 °C



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## Flammability

No data available

## Lower and upper explosion limit

No data available

## Flash point

23 °C

## **Method**

Abel closed cup

## Auto-ignition temperature

No data available

## Decomposition temperature

No data available

## pH

6.5 - 7.5

## 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

0.85 - 0.87 g/cm<sup>3</sup>

## Relative vapour density

No data available

## Particle characteristics

Not applicable

## 9.2. Other information

Viscosity, dynamic = 2.41 mPas (20°C)

## 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.

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**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
Ethanol 64-17-5 / 200-578-6	LD50	10470 mg/kg	Oral	-	Rat	OECD 401	-
Ethanol 64-17-5 / 200-578-6	LC50	51 mg/l	Inhalation	4 hours	Rat	OECD 403	Vapour
Ethanol 64-17-5 / 200-578-6	LD50	> 2000 mg/kg	Dermal	-	Rabbit	OECD 402	-
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
Propan-2-ol 67-63-0 / 200-661-7	LD50	13 900 mg/kg	Dermal	-	Rabbit	OECD Test Guideline 402	-
Glycerol 56-81-5 / 200-289-5	LD50	12600 mg/kg	Oral	-	Rat	-	-
Glycerol 56-81-5 / 200-289-5	LD50	> 10000 mg/kg	Dermal	-	Rabbit	-	-

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Product / Substance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Duration of exposure	Test animals	Method / Guideline	Remarks
2-phenoxyethanol 122-99-6 / 204-589-7	LD50	1394 mg/kg	Oral	-	Rat ( male )	-	-
2-phenoxyethanol 122-99-6 / 204-589-7	LD50	14391 mg/kg	Dermal	-	Rat	-	-

**Skin corrosion/irritation**

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

**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.

**Routes of exposure**

Inhalation  
 Eye contact  
 Skin contact

**Symptoms related to the physical, chemical and toxicological characteristics**

Causes eye irritation. Vapours have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Irritation of nose and throat.

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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**

Not classified.

**Acute fish toxicity**

Product / Sub- stance name CAS / EC no.	Measurement type	Value / Result	Duration of expos- ure	Species	Method / Guideline
Ethanol 64-17-5 / 200-578-6	LC50	13 000 mg/l	96 hours	Oncorhynchus mykiss	OECD 203
Propan-2-ol 67-63-0 / 200-661-7	LC50	9640 mg/l	96 hours	Pimephales pro- melas	OECD Test Guideline 203
Glycerol 56-81-5 / 200-289-5	LC50	> 1000 mg/l	96 hours	-	-
Glycerol 56-81-5 / 200-289-5	LC50	54000 mg/l	96 hours	Onchorhynchus mykiss (Rainbow trout)	-
2-phenoxyethanol 122-99-6 / 204-589- 7	LC50	337 - 352 mg/l	96 hours	Pimephales pro- melas (Fat-head Minnow)	-

**Acute algae toxicity**

Product / Sub- stance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Endpoint of the test	Species	Method / Guideline
Ethanol 64-17-5 / 200- 578-6	EC50	275 mg/l	72 hours	Growth rate	Chlorella vulgaris	OECD 201
Propan-2-ol 67-63-0 / 200- 661-7	EC50	> 100 mg/l	72 hours	-	Scenedesmus subspicatus	-
Glycerol 56-81-5 / 200- 289-5	-	> 10000 mg/l	168 hours	-	-	-

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Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline	Remark
Ethanol 64-17-5 / 200-578-6	EC50	858 mg/l	24 hours	Artemia salina	OECD 202	Marine water
Glycerol 56-81-5 / 200-289-5	EC50	> 10000 mg/l	24 hours	Daphnia magna	-	-
2-phenoxyethanol 122-99-6 / 204-589-7	EC50	> 500 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	Species	Remark
Ethanol 64-17-5 / 200-578-6	EC50	5800 mg/l	4 hours	Bacteria Paramaecium caudatum	-
Propan-2-ol 67-63-0 / 200-661-7	EC50	> 100 mg/l	-	Bacteria	No harming action

**Chronical toxicity**

Not classified.

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Endpoint of the test	Species	Method / Guideline
Ethanol 64-17-5 / 200-578-6	NOEC	245 mg/l	30 days	-	Fish	-
Ethanol 64-17-5 / 200-578-6	NOEC	9.6 mg/l	10 days	Reproduction Test	Ceriodaphnia dubia	-
Propan-2-ol 67-63-0 / 200-661-7	LOEC	1000 mg/kg	8 days	-	Algae	-
2-phenoxyethanol 122-99-6 / 204-589-7	NOEC	23 mg/l	34 days	-	Pimephales promelas (Fat-head Minnow)	OECD Test Guideline 210

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Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Endpoint of the test	Species	Method / Guideline
2-phenoxyethanol 122-99-6 / 204-589-7	NOEC	9.43 mg/l	21 days	-	Daphnia	OECD Test Guideline 211
2-phenoxyethanol 122-99-6 / 204-589-7	NOEC	> 500 mg/l	72 hours	-	Desmodesmus subspicatus (green algae)	-

**12.2. Persistence and degradability****Persistence and degradability**

Product :  
 No data available.

Product / Substance name CAS / EC no.	Duration	Result	Method / Guideline	Remark
Ethanol 64-17-5 / 200-578-6	28 days	97%	OECD Test Guideline 301B	The substance is readily biodegradable.
Propan-2-ol 67-63-0 / 200-661-7	5 days	53%	-	The substance is readily biodegradable.
Glycerol 56-81-5 / 200-289-5	20 days	82%	-	The substance is readily biodegradable.
2-phenoxyethanol 122-99-6 / 204-589-7	28 days	99%	-	The substance is readily biodegradable.

**12.3. Bioaccumulative potential****Bioaccumulative potential**

Product / Substance name CAS / EC no.	LogKow / LogPow	Bioconcentration factor (BCF)	Method / Guideline	Remark
Ethanol 64-17-5 / 200-578-6	-0.35	0.66	OECD Test Guideline 107	Bioaccumulation is unlikely.
Propan-2-ol 67-63-0 / 200-661-7	0.05	-	-	Bioaccumulation is unlikely.

**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.

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## 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.

#### Other

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

3175

### 14.2. UN proper shipping name

#### ADR / RID / ADN proper shipping name

SOLIDS or mixtures of solids (such as preparations and wastes) CONTAINING FLAMMABLE LIQUID, N.O.S. having a flash-point up to 60 °C (ETHANOL)

#### IMDG proper shipping name

SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (ETHANOL)

### 14.3. Transport hazard class(es)

#### Label

4.1

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ADR/RID/ADN



4.1

IMDG



4.1

**ADR / RID Class**

4.1

**ADR / RID Classification code**

F1

**ADR / RID hazard identification number**

40

**IMDG Class**

4.1

**ADN Class**

4.1

**ADN Class Code**

F1

**14.4. Packing group**

ADR / RID / ADN: II

IMDG: II

**14.5. Environmental hazards**

No

**IMDG Marine Pollutant**

No

**14.6. Special precautions for user**

Tunnel restriction code E

Transport category 2

IMDG EmS: F-A, S-I

**14.7. Maritime transport in bulk according to IMO instruments**

Not applicable.



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## 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): 40, 75

#### National regulations

No data available

### 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

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

Acute Tox. 4 - oral - Acute toxicity, oral, hazard category 4

Eye Dam. 1 - Serious eye damage, hazard category 1

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.