

Date: 2015-11-11 (Version4)

## PICA 781

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

<b>1.1 Product identifier</b>	PICA 781
<b>1.2 Relevant identified uses of the substance or mixture and uses advised against</b>	Graffiti removal
<b>1.3 Details of the supplier of the safety data sheet</b>	PICA Kemi AB
<b>Address</b>	Kabingatan 13 SE-212 39 Malmö
<b>Telephone/ telefax</b>	+46(0)40-185820/+46(0)40-185823
<b>Contact</b>	<a href="http://www.picakemi.se/picakemi@picakemi.se">www.picakemi.se/picakemi@picakemi.se</a>
<b>1.4 Emergency telephone number</b>	+46 (0)8-331231 Poison information

### SECTION 2: Hazards identification

#### 2.1 Classification:

Classification CLP (1272/2008/EC)

Skin irritation - Category 2; H315

Serious eye irritation - Category 2; H319

#### 2.2 Label elements:

##### Pictogram



**Signal Word:** Warning

#### Containing substances

2-butoxyethanol

#### Hazard statement Code(s)

H315 Causes skin irritation.

H319 Causes serious eye irritation.

#### Precautionary statements

P280 Wear protective gloves/eye 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.

P302+P352 IF ON SKIN: Wash with plenty of water and soap.

P362 Take off contaminated clothing and wash before reuse.

#### 2.3 Other hazards

This product is not considered to contain any substances that meet the criteria for classification as PBT or vPvB substances.

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**SECTION 3: Composition/information on ingredients**


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**3.2 Chemical composition: Mixture**

Components	CAS-No EC-No Reg-No	Conc %	Hazard Class and Category Code(s)	Hazard statement Code(s)*
DBE	- 906-170-0 01-2119475445-32-xxxx	40-60	-	-
2-Butoxyethanol	111-76-2 203-905-0 01-2119475108-36-xxxx	10-15	Acute Tox. 4 Acute Tox. 4 Skin Irrit 2 Eye Irrit 2 Acute Tox. 4	H302 H312 H315 H319 H332
2-(2-ethoxyethoxy)ethanol	111-90-0 203-919-7 01-2119475105-42-xxxx	10-15	-	-
Ethoxy Propoxy Propanol; Ethoxypropoxy Propanol(Edp)	30025-38-8 200-820-6 01-2119485583-28-xxxx	10-15	-	-
Benzyl alcohol	100-51-6 202-859-9 01-2119492630-38-xxxx	5-10	Acute Tox. 4 Eye Irrit 2 Acute Tox. 4	H302 H319 H332

\* The full text of Hazard statement Codes are listed under heading 16.

Ingredients not listed are classified as non-hazardous or at a concentration below reportable levels.

The classification is based on data from the chemical supplier and [www.echa.europa.eu](http://www.echa.europa.eu) (database)

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## SECTION 4: First aid measures

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### 4.1 Description of first aid measures:

#### General Information

In all cases of doubt, or when symptoms persist, seek medical advice.

Never give fluids or induce vomiting if patient is unconscious.

Keep person warm and calm.

#### Inhalation

Fresh air.

#### Skin contact

Take off all contaminated clothing, wash with water and rinse the skin thoroughly.

#### Eye contact

Important! Rinse immediately with water for at least 10 minutes. Hold eyelids apart. Contact a doctor if the complaints persist.

#### Ingestion

Rinse mouth with water and drink several glasses of water or milk. Do not provoke vomiting. Contact physician if larger quantity has been swallowed.

### 4.2 Most important symptoms and effects, both acute and delayed:

**Inhalation:** High levels of vapor could cause irritation to nose and throat.

**Skin contact:** Irritating to skin. (Redness, pain)

**Eye contact:** Irritating to eyes. (Pain, redness)

**Ingestion:** Ingestion in larger doses could be harmful and cause irritation of mucous membranes and nausea.

### 4.3 Indication of any immediate medical attention and special treatment needed

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## SECTION 5: Fire-fighting measures

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### 5.1 Extinguishing media

Carbon dioxide, dry powder or foam.

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

Do not breathe fumes. During fire, gases hazardous to health may be formed.

### 5.3 Advice for firefighters

Wear a self-contained breathing apparatus and protective clothing.

#### Additional information

Cool endangered containers with water in case of fire.

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**SECTION 6: Accidental release measures**


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

Use suitable personal protective equipment. Avoid contact with skin and eyes.

**6.2 Environmental precautions**

Do not flush into surface water or sanitary sewer system.

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

Re-use product if possible. Small quantities may be wiped up with a cloth. Contain larger spill with inert material.

Absorb in dry sand or earth

**6.4 Reference to other sections**

For handling and storage, see section 7.

For personal protection, see section 8.

For disposal of spillage, see section 13.

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**SECTION 7: Handling and storage**


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**7.1 Precautions for safe handling**

Normal precautions taken when handling chemicals should be observed.

Avoid contact with skin and eyes. Eyewash station should be provided.

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

Store in tightly closed container.

**7.3 Specific end use(s)**

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**SECTION 8: Exposure controls/personal protection**


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**8.1 Control parameters:**

Provide adequate ventilation.

Eyewash station should be provided.

**Exposure limits:**
**Swedish limit values or limit values according to the European commission**

Substance	CAS-No	Level limit value	Ceiling limit value	Short time value	Note
2-Butoxyethanol	111-76-2	10 ppm 50 mg/m <sup>3</sup>	-	20 ppm 100 mg/m <sup>3</sup>	H
2-(2-ethoxyethoxy)ethanol	111-90-0	15 ppm 80 mg/m <sup>3</sup>	-	30 ppm 170 mg/m <sup>3</sup>	H
(2-methoxymethylethoxy)-propanol	34590-94-8	50 ppm 300 mg/m <sup>3</sup>	-	75 ppm 450 mg/m <sup>3</sup>	-
Dimethyl adipate	627-93-0	5 ppm 36 mg/m <sup>3</sup>	-	-	-
Dimethyl glutarate	1119-40-0	5 ppm 33 mg/m <sup>3</sup>	-	-	-
Dimethyl succinate	106-65-0	5 ppm 30 mg/m <sup>3</sup>	-	-	-

**Explanation note:**

H = Can be absorbed through the skin.

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**SECTION 8: Exposure controls/personal protection (...)**

**DNEL**

Dimethyl adipate (627-93-0)	Long term exposure - Consumers Local effects, inhalation: 5 mg/m <sup>3</sup> Long term exposure - Workers Local effects, inhalation: 8.3 mg/m <sup>3</sup>
Dimethyl glutarate (1119-40-0)	Long term exposure - Workers Local effects, inhalation: 8.3 mg/m <sup>3</sup> Long term exposure - Consumers Local effects, inhalation: 5 mg/m <sup>3</sup>
Dimethyl succinate (106-65-0)	Short term exposure - Workers Systematic effects, dermal: 12.6 mg/kg bw/day Short term exposure - Workers Systematic effects, inhalation: 67 mg/m <sup>3</sup> Short term exposure - Workers Local effects, inhalation: 1.1 mg/m <sup>3</sup> Long term exposure - Workers Systematic effects, dermal: 6.3 mg/kg bw/day Long term exposure - Workers Systematic effects, inhalation: 33.5 mg/m <sup>3</sup> Long term exposure - Workers Local effects, inhalation: 1.1 mg/m <sup>3</sup>

**DNEL**

2-Butoxyethanol (111-76-2)	Long term exposure - Consumers Systematic effects, oral: 3.2 mg/kg bw/day Short term exposure - Consumers Systematic effects, oral: 44.5 mg/kg bw/day Short term exposure - Consumers Systematic effects, inhalation: 426 mg/m <sup>3</sup> Short term exposure - Consumers Systematic effects, oral: 13.4 mg/kg bw/day Short term exposure - Consumers Local effects, inhalation: 123 mg/m <sup>3</sup> Long term exposure - Consumers Systematic effects, dermal: 38 mg/kg bw/day Long term exposure - Consumers Systematic effects, inhalation: 49 mg/m <sup>3</sup> Short term exposure - Workers Systematic effects, dermal: 89 mg/kg bw/day Short term exposure - Workers Systematic effects, inhalation: 663 mg/m <sup>3</sup> Short term exposure - Workers Local effects, inhalation: 246 mg/m <sup>3</sup> Long term exposure - Workers Systematic effects, dermal: 75 mg/kg Long term exposure - Workers Systematic effects, inhalation: 98 mg/m <sup>3</sup>
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**SECTION 8: Exposure controls/personal protection (...)**
**DNEL**

2-(2-ethoxyethoxy)ethanol (111-90-0)	Long term exposure - Consumers Local effects, inhalation: 9 mg/m <sup>3</sup> Long term exposure - Consumers Systematic effects, inhalation: 18.3 mg/m <sup>3</sup> Long term exposure - Consumers Systematic effects, dermal: 25 mg/kg Long term exposure - Consumers Systematic effects, oral: 25 mg/kg bw/day Long term exposure - Workers Local effects, inhalation: 18 mg/m <sup>3</sup> Long term exposure - Workers Systematic effects, inhalation: 37 mg/m <sup>3</sup> Long term exposure - Workers Systematic effects, dermal: 50 mg/kg bw/day
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**DNEL**

(2-methoxymethylethoxy)-propanol (34590-94-8)	Long term exposure - Workers Systematic effects, inhalation: 392 mg/m <sup>3</sup> Long term exposure - Workers Systematic effects, dermal: 42 mg/kg bw/day Long term exposure - Consumers Systematic effects, inhalation: 100 mg/m <sup>3</sup> Long term exposure - Consumers Systematic effects, dermal: 25 mg/kg bw/day Long term exposure - Consumers Systematic effects, oral: 25 mg/kg bw/day
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**PNEC**

Dimethyl adipate (627-93-0)	0.018 mg/l	Freshwater
Dimethyl adipate (627-93-0)	0.0018 mg/l	Seawater
Dimethyl adipate (627-93-0)	0.16 mg/kg	Sediment, Freshwater
Dimethyl adipate (627-93-0)	0.016 mg/kg	Sediment, Seawater
Dimethyl adipate (627-93-0)	2.47 mg/kg	Soil
Dimethyl adipate (627-93-0)	10 mg/l	Sewage Treatment Plant
Dimethyl adipate (627-93-0)	10 mg/l	Intermittent releases
Dimethyl glutarate (1119-40-0)	0.031 mg/l	Freshwater
Dimethyl glutarate (1119-40-0)	0.0031 mg/l	Seawater
Dimethyl glutarate (1119-40-0)	0.15 mg/kg	Sediment, Freshwater
Dimethyl glutarate (1119-40-0)	0.015 mg/kg	Sediment, Seawater
Dimethyl glutarate (1119-40-0)	0.113 mg/kg	Soil
Dimethyl glutarate (1119-40-0)	10 mg/l	Sewage Treatment Plant
Dimethyl glutarate (1119-40-0)	0.31 mg/l	Intermittent releases
Dimethyl succinate (106-65-0)	50 µg/l	Freshwater
Dimethyl succinate (106-65-0)	5 µg/l	Seawater
Dimethyl succinate (106-65-0)	137 µg/kg	Sediment, Freshwater
Dimethyl succinate (106-65-0)	14 µg/kg	Sediment, Seawater
Dimethyl succinate (106-65-0)	137 µg/kg	Soil
Dimethyl succinate (106-65-0)	10000 µg/l	Sewage Treatment Plant
Dimethyl succinate (106-65-0)	500 µg/l	Intermittent releases

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## SECTION 8: Exposure controls/personal protection (...)

2-Butoxyethanol (111-76-2)	8.8 mg/l	Freshwater
2-Butoxyethanol (111-76-2)	0.88 mg/l	Seawater
2-Butoxyethanol (111-76-2)	34.6 mg/kg	Sediment, Freshwater
2-Butoxyethanol (111-76-2)	3.46 mg/kg	Sediment, Seawater
2-Butoxyethanol (111-76-2)	3.13 mg/kg	Soil
2-Butoxyethanol (111-76-2)	463 mg/l	Sewage Treatment Plant
2-Butoxyethanol (111-76-2)	9.1 mg/l	Intermittent releases
2-(2-ethoxyethoxy)ethanol (111-90-0)	0.74 mg/l	Freshwater
2-(2-ethoxyethoxy)ethanol (111-90-0)	0.074 mg/l	Seawater
2-(2-ethoxyethoxy)ethanol (111-90-0)	0.15 mg/kg	Soil
2-(2-ethoxyethoxy)ethanol (111-90-0)	100 mg/l	Sewage Treatment Plant
2-(2-ethoxyethoxy)ethanol (111-90-0)	10 mg/l	Intermittent releases

### 8.2 Exposure controls:

#### General protective and hygiene measures

Wash hands before breaks and after work.

Avoid contact with skin and eyes.

Handle in accordance with good industrial hygiene and safety practice.

#### Individual protection measures, such as personal protective equipment

Always consult a competent person/supplier when selecting personal protective equipment.

#### Respiratory protection

In inadequately ventilated places or if workplace limits are exceeded, a gasmask approved for this purpose must be worn. (combined vapor / particulate filter EN 141)

#### Eye protection

Wear tightly fitting protective goggles if there is a risk of direct contact or splash.

#### Hand protection

Use chemical-resistant gloves. (E.g. Nitrile rubber, Butyl rubber, Chloropren rubber)

When selecting gloves, several parameters should be taken into account, use, handling, breakthrough time

#### Clothing requirements

Wear chemical-resistant protective clothing.

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## SECTION 9: Physical and chemical properties

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

Form:	Liquid
Colour:	Yellowish
Odour:	Neutral
Odor threshold:	Not available
pH-value (Conc.):	About 7
Melting point/ Freezing point (°C):	Not available
Boiling point/range: (°C):	Not available
Flash point (°C):	>100
Evaporation rate:	Not available
Flammability (solid, gas):	Not available
Upper / lower flammability limits or explosive limits:	Not available
Vapour pressure:	Not available
Vapour density (air=1):	Not available
Density:	Not available
Solubility in water:	Soluble
Partition coefficient: n-octanol/water:	Not available
Auto-ignition temperature (C):	Not available
Decomposition temperature (°C):	Not available
Viscosity:	Not available
Explosive properties:	Not available
Oxidising properties:	Not available

### 9.2 Other information:

No specific.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable under recommended storage and handling conditions.

### 10.2 Chemical stability

Stable under recommended storage and handling conditions.

### 10.3 Possibility of hazardous reactions

Avoid contact with strong acids, bases and strong oxidizing agents.

### 10.4 Conditions to avoid

No known.

### 10.5 Incompatible materials

Strong acids, bases and strong oxidizing agents.

### 10.6 Hazardous decomposition products

No hazardous decompositions products known under recommended handling conditions.



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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

See section 4. (Most important symptoms and effects, both acute and delayed)

#### Inhalation

High concentrations of vapour could be irritant.

#### Skin contact

Irritant.

#### Eye contact

Irritant.

#### Ingestion

Ingestion in larger doses could be harmful and cause irritation of mucous membranes and nausea.

#### Acute toxicity

Information about this preparation is not available.

#### Toxicology data for the containing components:

<b>DBE(EC-no 906-170-0)</b> Mixture of Dimethyl glutarate (1119-40-0) Dimethyl succinate (106-65-0) Dimethyl adipate (627-93-0)	LD <sub>50</sub> Oral rat: >5000 mg/kg bw LC <sub>50</sub> Inhaled rat 4h: >11 mg/l LD <sub>50</sub> Dermal rat: >2000 mg/kg bw
<b>Ethoxy Propoxy Propanol; Ethoxypropoxy Propanol(Edp) (30025-38-8)</b>	LD <sub>50</sub> Oral rat: 4700 mg/kg
<b>2-(2-ethoxyethoxy)ethanol (111-90-0)</b>	LD <sub>50</sub> Oral rat: 6300 mg/kg bw LC <sub>50</sub> Inhaled rat 4h: >5.24 mg/l LD <sub>50</sub> Dermal rat: ~8500 mg/kg bw
<b>2-Butoxyethanol (111-76-2)</b>	LD <sub>50</sub> Oral rat: 1746 mg/kg bw LC <sub>50</sub> Inhaled rat 4h: >4.26 mg/l LD <sub>50</sub> Dermal rat: >2000 mg/kg bw
<b>Benzyl alcohol (100-51-6)</b>	LD <sub>50</sub> Oral rat: 1620 mg/kg bw LC <sub>50</sub> Inhaled rat 4h: ATE 11 (vapors) LD <sub>50</sub> Dermal rat: 2000 mg/kg bw

#### STOT-single exposure -repeated exposure

No known.

#### Routes of exposure

Inhalation, eyes and skin. (Ingestion)

#### Allergenic potential

The product is not classified as allergenic by inhalation or skin contact.

#### Carcinogenicity, mutagenicity and toxicity for reproduction

This product is not classified as carcinogen, mutagen and toxic for reproduction.

#### Other information

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**SECTION 12: Ecological information**


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This product is not classified as dangerous for the environment.

Do not flush into surface water or sanitary sewer system.

**12.1 Toxicity**

Information about this preparation is not available.

**Toxicology data for the containing components:**

<b>DBE(EC-no 906-170-0)</b> Mixture of Dimethyl glutarate (1119-40-0) Dimethyl succinate (106-65-0) Dimethyl adipate (627-93-0)	LC <sub>50</sub> Fish 96h: >100 mg/l EC <sub>50</sub> Daphnia 48h: >100 mg/l EC <sub>50</sub> Algae 72h:>100 mg/l
<b>Ethoxy Propoxy Propanol;  Ethoxypropoxy Propanol(Edp)  (30025-38-8)</b>	LC <sub>50</sub> Fish 96h: >100 mg/l EC <sub>50</sub> Daphnia 48h: >100 mg/l EC <sub>50</sub> Algae 72h:>100 mg/l
<b>Benzyl alcohol (100-51-6)</b>	LC <sub>50</sub> Fish 96h: >10000 mg/l Sp: Pimephales promelas EC <sub>50</sub> Daphnia 48h: 1982 mg/l Sp: Daphnia magna EC <sub>50</sub> Algae 72h:>100 mg/l Sp: Desmodesmus subspicatus
<b>2-(2-ethoxyethoxy)ethanol (111-90-0)</b>	LC <sub>50</sub> Fish 96h: 460 mg/l OECD 203 EC <sub>50</sub> Daphnia 48h: 230 mg/l OECD 202 EC <sub>50</sub> Algae 72h:770 mg/l OECD 201

**12.2 Persistence and degradability**

Expected to be readily biodegradable.

**12.3 Bioaccumulative potential**

Not expected to bioaccumulate.

**12.4 Mobility in soil**

Soluble in water.

**12.5 Results of PBT and vPvB assessment**

This product is not considered to contain any substances that meet the criteria for classification as PBT or vPvB substances.

**12.6 Other adverse effects**

Not available

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**SECTION 13: Disposal considerations**


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**13.1 Waste treatment methods:**

Dispose of in accordance with local authority requirements.

Hazardous waste.

Do not empty into drain.

**EWC code:** Depends on line of business and use.

Suggested EWC-code: 20 01 29\* detergents containing dangerous substances.

**Disposal of Packaging:**

Empty and cleaned packaging can be recycled.

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## SECTION 14: Transport information

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The product is not classified as dangerous goods according to ADR/RID, IMDG, DGR.

### 14.1 UN number

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### 14.2 Proper shipping name (IMDG, IATA/ICAO)

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### 14.3 Transport hazard class(es)

-

### 14.4 Packing group

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### 14.5 Environmental hazards

Marine pollutant: No

### 14.6 Special precautions for user

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### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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## SECTION 15: Regulatory information

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

Classification according to CLP (1272/2008/EC).

### 15.2 Chemical safety assessment

No conducted.

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## SECTION 16: Other information

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### The full text of Hazard statement Codes listed under section 3:

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

This information is provided for health and safety assessments by an industrial user. Reference should be made to any relevant local or national health, safety, and environmental legislation.

### Version 4: 2015-11-11

Safety data sheet according to Regulation (EC) No. 1907/2006 and (EG) 2015/830.

### Previous versions:

Version 1: 2006-05-10

Version 2: 2006-06-20

Version 3: 2013-10-14

### Sources

Safety data sheet provided by the manufacturer. CLP-regulation

[www.kemi.se](http://www.kemi.se) (Databases), AFS 2011:18, [www.echa.europa.eu](http://www.echa.europa.eu) (Databases).

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**SECTION 16: Other information (...)**

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**Abbreviations explanations**

ADR: International Carriage of Dangerous Goods by Road

BCF: Bio Concentration Factor

CAS-nr: Chemical Abstracts Service number

EC<sub>50</sub>: Effect Concentration

EG-nr: A substance number i Einecs, Elincs or in No-Longer Polymers List.

IMDG: International Maritime Dangerous Goods Code.

LC<sub>50</sub>: Lethal Concentration

LD<sub>50</sub>: Lethal Dose

IC<sub>50</sub>: Median Inhibition Concentration

NOEC: No Observed Effect Concentration

PBT-substance: Persistent, Bio accumulative and Toxic substances.

vPvB-substance: Very persistent and Very Bio accumulative substances.

NOEC: No Observed Effect Concentration

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