

Revision date: 2022-12-12 (Version 2)

## Pica 141

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

<b>1.1 Product identifier</b>	Pica 141
<b>1.2 Relevant identified uses of the substance or mixture and uses advised against</b>	Graffiti remover.
<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</b>	+46 (0)40-185820
<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>	For poison information call, NHS 111 (England), NHS 24 (Scotland) or NHS Direct (Wales), in emergencies call 999.

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Classification CLP (1272/2008/EC)

Acute toxicity (oral), Hazard Category 4: H302

Skin corrosion/irritation, Hazard Category 1A: H314

Serious eye damage/eye irritation, Hazard Category 1: H318

#### 2.2 Label elements

##### Pictogram



**Signal Word:** Danger

##### Contents

Potassium hydroxide, 2-butoxyethanol

##### Hazard statement Code(s)

H302: Harmful if swallowed

H314: Causes severe skin burns and eye damage.

##### Precautionary statements

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

P261 Avoid breathing fume /spray.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

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

P310 Immediately call a POISON CENTER or doctor/physician.

#### 2.3 Other hazards

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

Does not contain an endocrine disruptor (EDC) in a concentration of  $\geq 0.1\%$ .

Revision date: 2022-12-12 (Version 2)

**Pica 141**
**SECTION 3: Composition/information on ingredients**
**3.2 Mixtures**

Components	CAS-No: EC-No: Reg-No:	Conc %	Hazard Class and Category Code(s)	Hazard statement Code(s)*
2-(2-ethoxyethoxy)ethanol	111-90-0 203-919-7 01-2119475105-42-xxxx	30 - 50	-	-
2-butoxyethanol Index: 607-006-00-8	111-76-2 203-905-0 01-2119475108-36	25 - 40	Acute Tox. 4 Acute Tox. 4 Acute Tox. 4 Eye Irrit. 2 Skin Irrit. 2	H302 H312 H332 H315 H319
Potassium hydroxide **	1310-58-3 215-181-3	10 - 20	Acute tox 4 Skin Corr 1A Eye Dam. 1	H302 H314 H318
2-aminoethanol***	141-43-5 205-483-3 01-2119486455-28	1 - <5	Acute Tox. 4 Acute Tox. 4 Acute Tox. 4 Skin Corr. 1B STOT Single 3	H302 H312 H332 H314 H335

\* The full text of Hazard statement Codes are listed under section 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 <http://echa.europa.eu> (database)

\*\* SCL

Eye Irrit. 2; H319:  $0,5 \% \leq C < 2 \%$

Skin Corr. 1A; H314:  $C \geq 5 \%$

Skin Corr. 1B; H314:  $2 \% \leq C < 5 \%$

Skin Irrit. 2; H315:  $0,5 \% \leq C < 2 \%$

\*\*\* SCL

STOT SE 3; H335:  $C \geq 5 \%$

Revision date: 2022-12-12 (Version 2)

**Pica 141**

---

---

## SECTION 4: First aid measures

---

### 4.1 Description of first aid measures

#### General Information

Never give fluids or induce vomiting if patient is unconscious. Keep person warm and calm. In all cases of doubt, or when symptoms persist, seek medical advice.

#### Inhalation

Remove to fresh air.

#### Skin contact

Immediately, take off all contaminated clothing wash with soap and water and rinse the skin thoroughly.

#### Eye contact

Important! Rinse immediately with water for at least 15 minutes. Hold eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Go to hospital or eye specialist. If possible, continue to rinse during transport.

#### Ingestion

Rinse mouth with water and drink several glasses of water. Do not induce vomiting unless directed by medical personnel. Seek medical treatment.

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

**Inhalation:** High levels of vapor may cause respiratory irritation.

**Skin contact:** May cause chemical burns with blisters, sores or burns which may be difficult to heal.

**Eye contact:** Give severe pain and irritation. May severely injure the eyes.

**Ingestion:** Corrosive in the mouth, throat and gastrointestinal tract. Symptoms burning pain, vomiting and stomach pains. Vomiting may aggravate the injury. Harmful if swallowed

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

Treat symptomatically.

---

---

## SECTION 5: Fire-fighting measures

---

### 5.1 Extinguishing media

Water mist, foam, powder, carbon dioxide.

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

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

### 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. Move containers from fire area if it can be done without risk.

---

---

## SECTION 6: Accidental release measures

---

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

Use personal protective equipment

Avoid contact with skin and eyes

Ensure adequate ventilation.

### 6.2 Environmental precautions

Do not flush larger amounts of concentrated product into surface water or sanitary sewer system.

---

Revision date: 2022-12-12 (Version 2)

**Pica 141**


---



---

**SECTION 6: Accidental release measures**


---

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

Re-use product if possible. Small quantities may be wiped up with a cloth. Don't forget protective gloves!  
Larger spill: Contain spill with inert material. Absorb in vermiculite, dry sand or earth. Flush afterwards with water.

**6.4 Reference to other sections**

See Section 7 for proper handling and storage.

For personal protection see section 8.

For disposal of spillage, see section 13.

---



---

**SECTION 7: Handling and storage**


---

**7.1 Precautions for safe handling**

Normal precautions taken when handling chemicals should be observed.

Avoid contact with skin and eyes. Provide eyewash station.

Read instructions before use. Use personal protective equipment

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

Store in tightly closed container.

**7.3 Specific end use(s)**

Graffiti remover.

---



---

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


---

**8.1 Appropriate engineering controls**

Ensure adequate ventilation. Provide eyewash station.

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

Substance	CAS-No	Level limit value	Short time value	Note
2-(2-ethoxyethoxy)ethanol	111-90-0	15 ppm 80 mg/m <sup>3</sup>	30 ppm 170 mg/m <sup>3</sup>	H,V
2-butoxyethanol	111-76-2	10 ppm 50 mg/m <sup>3</sup>	50 ppm 246 mg/m <sup>3</sup>	H
Potassium hydroxide - Inhalable dust	1310-58-3	1 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	-
2-aminoethanol	141-43-5	1 ppm 2,5 mg/m <sup>3</sup>	3 ppm 7,5 mg/m <sup>3</sup>	H

**Explanation of note**

V = Indicative short-term limit value. H = The substance can easily be absorbed through the skin.

**British limit values (EH40/2005 Workplace exposure limits)**

Substance	CAS Nr	Long-term exposure Limit	Short-term exposure limit	Comments
2-(2-ethoxyethoxy)ethanol	111-76-2	25 ppm 123 mg/m <sup>3</sup>	50 ppm 246 mg/m <sup>3</sup>	Sk, BMGV
Potassium hydroxide	1310-58-3	-	2 mg/m <sup>3</sup>	
2-Aminoethanol	141-43-5	1 ppm 2,5 mg/m <sup>3</sup>	3 ppm 7,6 mg/m <sup>3</sup>	Sk

---

Revision date: 2022-12-12 (Version 2)

**Pica 141**

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

**DNEL**

<p>2-aminoethanol (141-43-5)</p>	<p>Long term exposure - Workers          Systematic effects, dermalt: 1 mg/kg          Long term exposure - Workers          Local effects, inhalation: 3,3 mg/m<sup>3</sup>          Long term exposure - Consumers          Systematic effects, dermalt: 0,24 mg/kg          Long term exposure - Consumers          Systematic effects, inhalation: 2 mg/m<sup>3</sup>          Long term exposure - Consumers          Systematic effects, oralt: 3,75 mg/kg</p>
<p>2-(2-ethoxyethoxy)ethanol (111-90-0)</p>	<p>Long term exposure - Workers          Systematic effects, dermalt: 50 mg/kg          Long term exposure - Workers          Systematic effects, inhalation: 37 mg/m<sup>3</sup>          Long term exposure - Workers          Local effects, inhalation: 18 mg/m<sup>3</sup>          Long term exposure - Consumers          Systematic effects, dermalt: 25 mg/kg          Long term exposure - Consumers          Systematic effects, inhalation: 18,3 mg/m<sup>3</sup>          Long term exposure - Consumers          Systematic effects, oralt: 25 mg/kg          Long term exposure - Consumers          Local effects, inhalation: 9 mg/m<sup>3</sup></p>
<p>2-butoxyethanol (111-76-2)</p>	<p>Inhalation, Long term exposure - Workers          Systematic effects: 98 mg/m<sup>3</sup>/ 20 ppm          Inhalation, Short term exposure - Workers          Systematic effects: 663 mg/m<sup>3</sup>/ 135 ppm          Inhalation, Short term exposure - Workers          lokala effekter: 246 mg/m<sup>3</sup>/ 50 ppm          Dermalt, Long term exposure - Workers          Systematic effects: 75 mg/kg/          Dermalt, Short term exposure - Workers          Systematic effects: 89 mg/ kg/          Inhalation, Long term exposure - Consumers          Systematic effects: 49 mg/m<sup>3</sup>          Inhalation, Short term exposure - Consumers          Systematic effects: 426 mg/m<sup>3</sup>          Inhalation, Short term exposure - Consumers          lokala effekter: 123 mg/m<sup>3</sup>          Dermalt, Long term exposure - Consumers          Systematic effects: 38 mg/kg/          Dermalt, Short term exposure - Consumers          Systematic effects: 44.5 mg/kg/          Oralt, Long term exposure - Consumers          Systematic effects: 3.2 mg/ kg/          Oralt, Short term exposure - Consumers          Systematic effects: 13.4 mg/ kg/</p>

Revision date: 2022-12-12 (Version 2)

**Pica 141**


---

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


---

**DNEL**

Potassium hydroxide (1310-58-3)

Long term exposure - Workers

Locale effects, inhalation: 1 mg/m<sup>3</sup>
**PNEC**

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)	10 mg/l	Intermittent releases
2-(2-ethoxyethoxy)ethanol (111-90-0)	500 mg/l	Sewage Treatment Plant
2-(2-ethoxyethoxy)ethanol (111-90-0)	2,47 mg/kg	Sediment Freshwater
2-(2-ethoxyethoxy)ethanol (111-90-0)	0,274 mg/kg	Sediment Seawater
2-(2-ethoxyethoxy)ethanol (111-90-0)	0,15 mg/kg	Soil
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)	9,1 mg/l	Intermittent releases
2-butoxyethanol (111-76-2)	2,8 mg/k	Soil
2-butoxyethanol (111-76-2)	463 mg/l	Sewage Treatment Plant
2-aminoethanol (141-43-5)	0,085 mg/l	Freshwater
2-aminoethanol (141-43-5)	0,0085 mg/l	Seawater
2-aminoethanol (141-43-5)	0,028 mg/l	Intermittent releases
2-aminoethanol (141-43-5)	0,434 mg/kg	Sediment Freshwater
2-aminoethanol (141-43-5)	0,0434 mg/kg	Sediment Seawater
2-aminoethanol (141-43-5)	1,29 mg/kg	Soil
2-aminoethanol (141-43-5)	100 mg/l	Sewage Treatment Plant

**8.2 Exposure controls**
**General protective and hygiene measures**

Wash hands during work breaks and at the end of the shift.

The usual precautionary measures for the handling of chemicals have to be observed.

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

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

**Respiratory protection**

In case of insufficient ventilation or if the concentration exceeds workplace limits a respirator fit for purpose must be used.

**Hand protection**

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

When selection gloves, several parameters must be taken into account, usage, handling time, breakthrough time.etc

**Eye protection**

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

**Body protection**

Wear chemical resistant clothes.

Revision date: 2022-12-12 (Version 2)

**Pica 141**

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Physical state:</b>	Liquid
<b>Colour:</b>	Dark brown
<b>Odour</b>	Characteristic
<b>Melting point/freezing point</b>	Not determined
<b>Boiling point or initial boiling point and boiling range</b>	Not determined
<b>Flammability</b>	Not determined
<b>Lower and upper explosion limit</b>	Not determined
<b>Flash point</b>	Not determined
<b>Auto-ignition temperature</b>	Not determined
<b>Decomposition temperature</b>	Not determined
<b>pH</b>	14
<b>Kinematic viscosity</b>	Not determined
<b>Solubility</b>	Not determined
<b>Partition coefficient n-octanol/water (log value)</b>	Not determined
<b>Vapour pressure</b>	Not determined
<b>Density and/or relative density</b>	Not determined
<b>Relative vapour density</b>	Not determined
<b>Particle characteristics</b>	Not determined

### 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

No known

### 10.4 Conditions to avoid

No known

### 10.5 Incompatible materials

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

### 10.6 Hazardous decomposition products

No known under recommended storage and handling conditions

## SECTION 11: Toxicological information

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

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

#### Irritating/corrosive properties

Causes severe skin burns and eye damage.

#### Acute toxicity

Harmful if swallowed

#### Toxicology data

Information about this preparation is not available.

Revision date: 2022-12-12 (Version 2)

**Pica 141**
**SECTION 11: Toxicological information (...)**
**Toxicology data for the containing components**

<b>2-(2-ethoxyethoxy)ethanol (111-90-0)</b>	LD <sub>50</sub> Oral Rat: 6300 mg/kg LD <sub>50</sub> Dermal Rabbit: ~8500 mg/kg LC <sub>50</sub> Inhalation Rat 4h: >5,24 mg/l
<b>2-butoxyethanol (111-76-2)</b>	LD <sub>50</sub> Oral Rat: 1300 mg/kg LC <sub>50</sub> Inhalation Guinea pig (female) 1h: >3,1 mg/l
<b>Potassium hydroxide (1310-58-3)</b>	LD <sub>50</sub> Oral Rat: 333 mg/kg
<b>2-aminoethanol (141-43-5)</b>	LD <sub>50</sub> Oral Rat: 1515 mg/kg LD <sub>50</sub> Dermal Rabbit: 2504 mg/kg LC <sub>50</sub> Inhalation Råtta 6h: >1,3 mg/l

**STOT-single exposure -repeated exposure**

No known.

**Routes of exposure**

Eyes and skin, inhalation, (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.

**Aspiration hazard**

No.

**11.2 Information on other hazards**

 Does not contain an endocrine disruptor (EDC) in a concentration of  $\geq 0.1\%$ .

**SECTION 12: Ecological information**

This product is not classified as dangerous for the environment.

Avoid uncontrolled releases to surface water and sewage

**12.1 Toxicity**

Information about this preparation is not available.

**Toxicology data for the containing components:**

<b>2-(2-ethoxyethoxy)ethanol (111-90-0)</b>	LD <sub>50</sub> Fish 96h: >10000 mg/l EC <sub>50</sub> Algea 96h: >100 mg/l LC <sub>50</sub> Daphnia 48h: 1982 mg/l
<b>2-butoxyethanol (111-76-2)</b>	LC <sub>50</sub> , Fish, 96h: 1474 mg/l Sp: Oncorhynchus mykiss EC <sub>50</sub> , Daphnia, 48h: 1 550 mg/l Sp: Daphnia magna EC <sub>50</sub> , Algea, 72h: 1 840 mg/l Sp: Pseudokirchneriella subcapitata NOEC, Algea, 72h: 286 mg/l Sp: Pseudokirchneriella subcapitata EC <sub>0</sub> , Bacteria, 16h: 700 mg/l Sp: Pseudomonas putida
<b>Potassium hydroxide (1310-58-3)</b>	LC <sub>50</sub> Fish 96h: 80 mg/l Sp: Gambusia affinis
<b>2-aminoethanol (141-43-5)</b>	LC <sub>50</sub> , Fish, 96h: 349 mg/l Sp: Cyprinus carpio LC <sub>50</sub> , Fish, 96h: 105 mg/l Sp: Oncorhynchus mykiss EC <sub>50</sub> , Daphnia, 48h: 27.04 mg/l Sp: Daphnia magna EC <sub>50</sub> , Algea, 7 h: 2.8 mg/l Sp: Selenastrum capricornutum EC <sub>10</sub> , Algea, 72h: 0,7 mg/l Sp: Pseudokirchneriella subcapitata



Revision date: 2022-12-12 (Version 2)

**Pica 141**

## SECTION 12: Ecological information (...)

### 12.2 Persistence and degradability

2-(2-ethoxyethoxy)ethanol (111-90-0) – Readily biodegradable. 87% 20D

2-butoxyethanol (111-76-2) – Readily biodegradable. 90,4% 28D OECDTG301B

2-aminoethanol (141-43-5) – Readily biodegradable. >90% 21D

### 12.3 Bioaccumulative potential

2-(2-ethoxyethoxy)ethanol (111-90-0) – Does not bioaccumulate.

2-butoxyethanol (111-76-2) – Does not bioaccumulate. Log Pow: 0,81

2-aminoethanol (141-43-5) – Does not 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 Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in a concentration of  $\geq 0.1\%$ .

### 12.7 Other adverse effects

No known

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods:

This product or residues of concentrated product is classified as hazardous waste. Dispose of in accordance with local authority requirements. Do not empty into drain.

### EWC suggestions for waste

07 06 04\* other organicsolvents, washing liquids and mother liquors

### Disposal of Packaging:

Well cleaned packaging could be left for recycling.

## SECTION 14: Transport information

The product is classified as dangerous goods according to ADR/RID, IMDG, DGR.

### 14.1 UN number or ID number

1760

### 14.2 UN proper shipping name

CORROSIVE LIQUID N.O. S (POTASSIUM HYDROXIDE)

### 14.3 Transport hazard class(es)

8

### 14.4 Packing group

I

### 14.5 Environmental hazards

Marine pollutant: No

### 14.6 Special precautions for user

-

### 14.7 Maritime transport in bulk according to IMO instruments

-

### LQ

1L

### Tunnel restriction code

(E)

Revision date: 2022-12-12 (Version 2)

**Pica 141**

---

**SECTION 15: Regulatory information**

---

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

Classification according to Regulation (EC) No. 1907/2006 annex II and EC/2020/878. EH40/2005.

**15.2 Chemical safety assessment**

None.

---

**SECTION 16: Other information**

---

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

H302 Harmful if swallowed

H312 Harmful in contact with skin.

H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation

H318: Causes serious eye damage.

H319 Causes serious eye irritation.

H332: Harmful if inhaled.

H335: May cause respiratory irritation.

The user of this product must decide if the information in this safety data sheet is sufficient for which the product will be used.

**Version 2:** 2022-12-12

Safety data sheet according to Regulation (EC) No. 1907/2006 annex II and EC/2020/878.

Changes made in section 1.4; 2.3; 4.1; 11.1; 11.2; 12.6; 15.1 &amp; 16.

**Previous versions**

Version 1: 2020-06-01

**Sources**

Safety data sheet provided by the manufacturer.

CLP-regulation, [www.kemi.se](http://www.kemi.se), EH40/2005. [www.echa.europa.eu](http://www.echa.europa.eu) (Databases)**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 Einescs, Elincs or in No-Longer Polymers List.

IMDG: International Maritime Dangerous Goods Code.

LC<sub>50</sub>: Lethal ConcentrationLD<sub>50</sub>: Lethal DoseIC<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