

Date: 2015-10-26 (Version3)

PICA 141

SECTION1: Identification of the substance/preparation and of the company/undertaking

1.1 Product identifier	PICA 141
1.2 Relevant identified uses of the substance or mixture and uses advised against	Graffiti removal
1.3 Details of the supplier of the safety data sheet Address	PICA Kemi AB Kabingatan 13 SE-212 39 Malmö
Telephone/ telefax	+46(0)40-185820/+46(0)40-185823
Contact	www.picakemi.se / picakemi@picakemi.se
1.4 Emergency telephone number	+46 (0)8-331231 Poison information

SECTION 2: Hazards identification

2.1 Classification:

Classification CLP (1272/2008/EC)

Skin corrosion - Category 1A; H314

Acute toxicity - Category 4; H302, H312, H332

2.2 Label elements:

Pictogram



Signal Word: Danger

Containing substances

Potassium hydroxide, 2-Butoxyethanol

Hazard statement Code(s)

H314 Causes severe skin burns and eye damage.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

Precautionary statements

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

P261 Avoid breathing vapours/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.

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SECTION 3: Composition/information on ingredients

3.2 Chemical composition: Mixture

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	50-80	-	-
2-Butoxyethanol	111-76-2 203-905-0 01-2119475108-36-xxxx	20-30	Acute Tox. 4 Acute Tox. 4 Acute Tox. 4 Skin Irrit. 2 Eye Irrit. 2	H302 H312 H332 H315 H319
Potassium hydroxide	215-181-3 1310-58-3	10-20	Acute tox 4 Skin Corr 1A	H302 H314
2-Aminoethanol	141-43-5 205-483-3	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 heading 16.

The classification is based on data from the chemical supplier and www.echa.europa.eu (database)

SECTION 4: First aid measures

4.1 Description of first aid measures:

General Information

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

Inhalation

Supply fresh air.

Skin contact

Wash immediately with plenty of water - if necessary also beneath clothing. Take off all contaminated clothing wash with soap and water and rinse the skin thoroughly. Corrosive burns must be treated by a doctor.

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 provoke vomiting. Seek medical attention.

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SECTION 4: First aid measures (...)

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

Inhalation: High concentrations of vapour may cause irritation to the respiratory system. Harmful if inhaled.

Skin contact: Corrosive to the skin and may cause wounds.

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

Ingestion: Highly corrosive in 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

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SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Water spray, foam, dry powder or carbon dioxide.

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.

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 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. Do not forget protective gloves! Contain larger spill with inert material. Absorb in vermiculite, dry sand or earth. Flush with water.

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

7.1 Precautions for safe handling

Use personal protective equipment.

Avoid contact with skin and eyes.

Ensure adequate ventilation.

Normal precautions taken when handling chemicals should be observed.

Provide eyewash station.

Read instructions before use.

7.2 Conditions for safe storage, including any incompatibilities

Store in tightly closed container.

7.3 Specific end use(s)

Graffiti removal

SECTION 8: Exposure controls/personal protection

8.1 Control parameters:

Appropriate engineering controls

Provide adequate ventilation.

Provide eyewash station.

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-(2-ethoxyethoxy)ethanol	111-90-0	15 ppm 80 mg/m ³	-	30 ppm 170 mg/m ³	H
2-Aminoethanol	141-43-5	3 ppm 8 mg/m ³	-	6 ppm 15 mg/m ³	H
2-Butoxyethanol	111-76-2	10 ppm 50 mg/m ³	-	20 ppm 100 mg/m ³	H
Potassium hydroxide - inhalable dust	1310-58-3	1 mg/m ³	2 mg/m ³	-	-

Explanation note:

H = Can easily be absorbed through the skin.

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

DNEL

2-(2-ethoxyethoxy)ethanol (111-90-0)	<p>Long term exposure - Workers Systematic effects, dermal: 50 mg/kg bw/day Long term exposure - Workers Systematic effects, inhalation: 37 mg/m³ Long term exposure - Workers Local effects, inhalation: 18 mg/m³ Long term exposure - Consumers Systematic effects, dermal: 25 mg/kg bw/day Long term exposure - Consumers Systematic effects, inhalation: 18.3 mg/m³ Long term exposure - Consumers Systematic effects, oral: 25 mg/kg bw/day Long term exposure - Consumers Local effects, inhalation: 9 mg/m³</p>
2-Butoxyethanol (111-76-2)	<p>Short term exposure - Workers Systematic effects, dermal: 89 mg/kg/day Short term exposure - Workers Systematic effects, inhalation: 652 mg/m³ Long term exposure - Workers Systematic effects, dermal: 75 mg/kg/day Long term exposure - Workers Systematic effects, inhalation: 98 mg/m³ Short term exposure - Consumers Systematic effects, dermal: 44.5 mg/kg/day Short term exposure - Consumers Systematic effects, inhalation: 426 mg/m³ Short term exposure - Consumers Systematic effects, oral: 13.4 mg/kg/day Long term exposure - Consumers Systematic effects, dermal: 38 mg/kg/day Long term exposure - Consumers Systematic effects, oral: 3.2 mg/kg/day</p>

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	Sporadic release
2-(2-ethoxyethoxy)ethanol (111-90-0)	500 mg/l	Sewage Treatment Plant
2-(2-ethoxyethoxy)ethanol (111-90-0)	2,47 mg/kg	Wet sediment (Freshwater)
2-(2-ethoxyethoxy)ethanol (111-90-0)	0,274 mg/kg	Wet 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	Wet sediment (Freshwater)
2-Butoxyethanol (111-76-2)	3,46 mg/kg	Wet sediment (Seawater)

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

2-Butoxyethanol (111-76-2)	2,8 mg/kg	Soil
2-Butoxyethanol (111-76-2)	463 mg/l	STP

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

If workplace limits are exceeded, a gasmask approved for this purpose must be worn.

Eye protection

Wear tightly fitting protective goggles.

Hand protection

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

When selecting gloves, several parameters should be taken into account, use, handling, break thru time.

Clothing requirements

Wear chemical-resistant protective clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Form:	Liquid
Colour:	Deep brown
Odour:	Characteristic
Odor threshold:	Not available
pH-value (Conc.):	14
Melting point/ Freezing point (°C):	Not available
Boiling point/range: (°C):	Not available
Flash point (°C):	Not available
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:	Not available
Solubility in organic solvents:	Not available
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

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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

Strong acids, strong bases, strong oxidizing agents.

10.6 Hazardous decomposition products

No hazardous decompositions products known under recommended handling conditions.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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

Inhalation

Harmful if inhaled.

Skin contact

Corrosive.

Eye contact

May severely injure the eyes.

Ingestion

Harmful if swallowed.

Acute toxicity

Information about this preparation is not available.

Toxicology data for the containing components:

Potassium hydroxide (1310-58-3)	LD ₅₀ Oral rat: 365 mg/kg body weight
2-(2-ethoxyethoxy)ethanol (111-90-0)	LD ₅₀ Oral mouse: 6031 mg/kg LD ₅₀ Dermal rabbit: 9143 mg/kg
2-Butoxyethanol (111-76-2)	LC ₅₀ Inhaled rat 4h: 2,21-2,39 mg/l LD ₅₀ Oral rat: 1300 mg/kg LD ₅₀ Dermal guinea pig: >2000 mg/kg LC ₅₀ Inhaled rat 4h: 2 mg/l (Vapour)

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

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:

Potassium hydroxide (1310-58-3)	LC ₅₀ Fish 96h: 80-85 mg/l EC ₅₀ Daphnia 48h: 40-240 mg/l
2-(2-ethoxyethoxy)ethanol (111-90-0)	LC ₅₀ Fish 96h: 6010 mg/l Sp: Ictalurus punctatus EC ₅₀ Daphnia 48h: 1982 mg/l Sp: Daphnia magna EC ₅₀ Algae 96h: >100 mg/l Sp: Desmodesmus subspicatus EC ₁₀ Bacteria 16h: 4000 mg/l
2-Butoxyethanol (111-76-2)	LC ₅₀ Fish 96h: 1474 mg/l Sp: Onchorhynchus mykiss EC ₅₀ Daphnia 48h: 1550 mg/l Sp: Daphnia magna EC ₅₀ Algae 72h: 1840 mg/l NOEC Daphnia 21 days: 100 mg/l Sp: Daphnia magna

12.2 Persistens och nedbrytbarhet

2-(2-ethoxyethoxy)ethanol (111-90-0) - Readily biodegradable.

2-Butoxyethanol (111-76-2) - Readily biodegradable.

12.3 Bioackumuleringsförmåga

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

Does not bioaccumulate. - 2-Butoxyethanol (111-76-2)

12.4 Mobility in soil

Not available.

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

SECTION 13: Disposal considerations

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: 07 06 04* other organic solvents, washing liquids and mother liquors

Disposal of Packaging:

Empty and cleaned packaging can be recycled.

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SECTION 14: Transport information

14.1 UN number

1760

14.2 Proper shipping name (IMDG, IATA/ICAO)

CORROSIVE LIQUID N.O. S (POTASSIUM HYDROXIDE)

14.3 Transport hazard class(es)

8

14.4 Packing group

II

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

-

LQ

1L

Tunnel restriction code

(E)

SECTION 15: Regulatory information

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.

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.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

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SECTION 16: Other information (...)

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 3: 2015-10-26

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

Previous versions:

Version 1: 2011-01-05

Version 2: 2013-10-14

Sources

Safety data sheet provided by the manufacturer. CLP-regulation
www.kemi.se (Databases), AFS 2011:18, 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

EC₅₀: Effect Concentration

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

IMDG: International Maritime Dangerous Goods Code.

LC₅₀: Lethal Concentration

LD₅₀: Lethal Dose

IC₅₀: 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
