according to Regulation (EC) No. 1907/2006 (REACH)

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## **PALUX Auto LiquidClean**

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

#### 1.1. Product identifier

Trade name/designation:

## PALUX Auto LiquidClean

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

#### **Use of the substance/mixture:**

Washing and cleaning products (including solvent based products)

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

Supplier (manufacturer/importer/only representative/downstream user/distributor):

#### **PALUX Aktiengesellschaft**

Wilhelm-Frank-Straße 36 97980 Bad Mergentheim

Germany

**Telephone:** ++49(0)7931/55-0 **Telefax:** ++49(0)7931/55-88600

**E-mail:** info@palux.de **Website:** www.palux.de

#### 1.4. Emergency telephone number

No data available

#### **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]-:

Hazard classes and hazard categories		Classification procedure
Corrosive to metals (Met. Corr. 1)	H290: May be corrosive to metals.	
Skin corrosion/irritation (Skin Corr. 1A)	H314: Causes severe skin burns and eye damage.	

#### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



**GHS05** Corrosion

Signal word: Danger

## Hazard components for labelling:

sodium hydroxide

hazard statements	for physical hazards
H290	May be corrosive to metals.

hazard statements for health hazards		
H314	Causes severe skin burns and eye damage.	

#### Supplemental Hazard information (EU): -

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Precautionary statements Prevention		
P260	Do not breathe dust/fume/gas/mist/vapours/spray.	
P280	Wear protective gloves/protective clothing/eye protection/face protection.	

<b>Precautionary stat</b>	Precautionary statements Response		
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water-/or 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/doctor/		

#### 2.3. Other hazards

No data available

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

#### 3.2. Mixtures

#### Hazardous ingredients / Hazardous impurities / Stabilisers:

product identifiers	Substance name Classification according to Regulation (EC) No 12 72/2008 [CLP]	Concentration
CAS No.: 1310-73-2 EC No.: 215-185-5 INDEX No.: 011-002-00-6 REACH No.: 01-2119457892-27-0035	sodium hydroxide Skin Corr. 1A  Danger H314	5 - 25 Wt %

Full text of H- and EUH-phrases: see section 16.

#### **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

#### **General information:**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious place in recovery position and seek medical advice. Do not leave affected person unattended. Warning First aider: Pay attention to self-protection!

## Following inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician.

## In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing. Get immediate medical advice/attention.

#### After eve 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.

## After ingestion:

Rinse mouth. Let water be drunken in little sips (dilution effect). Get medical advice/attention if you feel unwell. Rinse mouth immediately and drink plenty of water-. Do NOT induce vomiting. Get immediate medical advice/attention.

#### Self-protection of the first aider:

Use personal protection equipment.

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

Skin corrosion/irritation

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## **PALUX Auto LiquidClean**

## 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:

Co-ordinate fire-fighting measures to the fire surroundings.

Water

Carbon dioxide (CO2) Extinguishing powder

#### Unsuitable extinguishing media:

Strong water jet

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

The product itself does not burn.

#### **Hazardous combustion products:**

Nitrogen oxides (NOx) Carbon monoxide Carbon dioxide (CO2)

## 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

#### 5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water-.

#### **SECTION 6: Accidental release measures**

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

## 6.1.1. For non-emergency personnel

## Personal precautions:

Remove persons to safety.

#### **Protective equipment:**

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

#### 6.1.2. For emergency responders

#### Personal protection equipment:

Personal protection equipment: see section 8

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

## 6.3. Methods and material for containment and cleaning up

#### For containment:

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

#### For cleaning up:

Water (with cleaning agent)

## 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

#### 6.5. Additional information

Use appropriate container to avoid environmental contamination.

according to Regulation (EC) No. 1907/2006 (REACH)

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# **PALUX Auto LiquidClean**

## **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

#### **Protective measures**

#### Advices on safe handling:

Wear personal protection equipment (refer to section 8).

#### Fire prevent measures:

No special measures are necessary.

## Advices on general occupational hygiene

When using do not eat, drink or smoke. Avoid contact with eyes and skin.

## 7.2. Conditions for safe storage, including any incompatibilities

## Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place. **Storage class:** 8B – Non-combustible corrosive substances

## 7.3. Specific end use(s)

No data available

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

## 8.1. Control parameters

## 8.1.1. Occupational exposure limit values

Limit value typ e (country of or igin)	е	<ol> <li>long-term occupational exposure limit value</li> <li>short-term occupational exposure limit value</li> <li>Instantaneous value</li> <li>Monitoring and observation processes</li> <li>Remark</li> </ol>
WEL (GB)	sodium hydroxid e CAS No.: 131 0-73-2	② 2 mg/m³

## 8.1.2. Biological limit values

No data available

## 8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type
		② Exposure route
sodium hydroxide CAS No.: 1310-73-2	1 mg/m³	① DNEL worker ② DNEL long-term inhalative (local)
2,2',2''-nitrilotriethanol CAS No.: 102-71-6	5 mg/m³	① DNEL worker ② DNEL long-term inhalative (systemic)
2,2',2''-nitrilotriethanol CAS No.: 102-71-6	5 mg/m³	① DNEL worker ② DNEL long-term inhalative (local)
2,2',2''-nitrilotriethanol CAS No.: 102-71-6	6.3 mg/kg bw/day	① DNEL worker ② DNEL long-term dermal (systemic)

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Substance name	PNEC Value	① PNEC type
2,2',2"-nitrilotriethanol CAS No.: 102-71-6	0.32 mg/l	① PNEC aquatic, freshwater
2,2',2''-nitrilotriethanol CAS No.: 102-71-6	0.032 mg/l	① PNEC aquatic, marine water
2,2',2''-nitrilotriethanol CAS No.: 102-71-6	10 mg/l	① PNEC sewage treatment plant (STP)
2,2',2''-nitrilotriethanol CAS No.: 102-71-6	1.7 mg/kg	① PNEC sediment, freshwater
2,2',2''-nitrilotriethanol CAS No.: 102-71-6	0.17 mg/kg	① PNEC sediment, marine water

## 8.2. Exposure controls

## 8.2.1. Appropriate engineering controls

No data available

#### 8.2.2. Personal protection equipment







#### **Eye/face protection:**

Eye glasses with side protection DIN EN 166

### Skin protection:

Tested protective gloves must be worn DIN EN 374 Suitable material: NBR (Nitrile rubber) >0,3mm Breakthrough time (maximum wearing time) 480min In the case of wanting to use the gloves again, clean them before taking off and air them well. Breakthrough times and swelling properties of the material must be taken into consideration.

#### 8.2.3. Environmental exposure controls

No data available

#### 8.3. Additional information

No data available

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

**Appearance** 

Physical state: liquid Colour: light yellow

**Odour:** Amines

## Safety relevant basis data

parameter		at °C	Method	Remark
рН	14	20 °C		
Melting point	not deter- mined			
Freezing point	not deter- mined			
Initial boiling point and boiling range	> 90 °C			
Decomposition temperature (°C):	not deter- mined			
Flash point	not applicable			

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parameter		at °C	Method	Remark
Evaporation rate	not deter- mined			
Ignition temperature in °C	not deter- mined			
Upper/lower flammability or explosive limits	not deter- mined			
Vapour pressure	not deter- mined			
Vapour density	not deter- mined			
Relative density	= 1.15 g/cm <sup>3</sup>	20 °C		
Bulk density	not deter- mined			
Water solubility (g/L)	completely mi scible	20 °C		
Partition coefficient: n-octanol/water	not deter- mined			
Dynamic viscosity	not deter- mined			
Kinematic viscosity	not deter- mined	40 °C		

## 9.2. Other information

No data available

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

May be corrosive to metals.

The product itself does not burn.

## 10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

#### 10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

#### 10.4. Conditions to avoid

No data available

### 10.5. Incompatible materials

Slowly corrodes aluminium and zink under hydrogen evolution.

Exothermic reaction with: Acid

#### 10.6. Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapours.

## **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

#### Acute oral toxicity:

The classification criteria for this hazard class are not met by definition.

## Acute dermal toxicity:

The classification criteria for this hazard class are not met by definition.

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#### Acute inhalation toxicity:

The classification criteria for this hazard class are not met by definition.

#### **Skin corrosion/irritation:**

Causes severe burns.

## Eye damage/irritation:

Causes serious eye damage.

#### Respiratory or skin sensitisation:

The classification criteria for this hazard class are not met by definition.

#### Germ cell mutagenicity:

The classification criteria for this hazard class are not met by definition.

#### **Carcinogenicity:**

The classification criteria for this hazard class are not met by definition.

#### Reproductive toxicity:

The classification criteria for this hazard class are not met by definition.

#### STOT-single exposure:

The classification criteria for this hazard class are not met by definition.

#### STOT-repeated exposure:

The classification criteria for this hazard class are not met by definition.

#### Aspiration hazard:

The classification criteria for this hazard class are not met by definition.

#### **Additional information:**

No data available

## **SECTION 12: Ecological information**

## 12.1. Toxicity

CAS No.	Substance name	Toxicological information
1310-73-2	sodium hydroxide	<b>LC<sub>50</sub>:</b> >133 - <189 mg/l 2 d (Leuciscus idu
		s (golden orfe))
		EC <sub>50</sub> : >100 mg/l 2 d (Daphnia magna (Big
		water flea))

#### 12.2. Persistence and degradability

No data available

## 12.3. Bioaccumulative potential

CAS No.	Substance name	- 3 OC	Bioconcentration factor (BCF)
1310-73-2	sodium hydroxide	-3.88	

## 12.4. Mobility in soil

No data available

## 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

#### 12.6. Other adverse effects

No data available

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

#### 13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

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## **Waste code product:**

20 01 29 \* Detergents containing hazardous substances

#### Waste code packaging:

packaging containing residues of or contaminated by dangerous substances

#### **Waste treatment options**

#### **Appropriate disposal / Product:**

Consult the appropriate local waste disposal expert about waste disposal.

#### Appropriate disposal / Package:

Recycle sales packaging via DSD (Duales System Deutschland).

#### 13.2. Additional information

No data available

## **SECTION 14: Transport information**

Land transport (ADR/ RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO- TI / IATA-DGR)
14.1. UN-No.			
1824	1824	1824	1824
14.2. UN proper shi	pping name		
SODIUM HYDROXIDE SOLUTION	SODIUM HYDROXIDE SOLUTION	SODIUM HYDROXIDE SOLUTION	SODIUM HYDROXIDE SOLUTION
14.3. Transport haz	ard class(es)		
w.e		<u> </u>	
8	8	8	8
14.4. Packing group	)		
II	II	II	II
14.5. Environmenta	l hazards		
No	No	No	No
14.6. Special precau	utions for user		
Special provisions: Limited quantity (LQ): Hazard identification number (Kemler No.): Classification code: - tunnel restriction co de: E Remark:	Special provisions: Limited quantity (LQ): Classification code: - Remark:	Special provisions: Limited quantity (LQ): EmS-No.: Remark:	Special provisions: Limited quantity (LQ): Remark:

# 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No data available

<sup>\*:</sup> Evidence for disposal must be provided.

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## **PALUX Auto LiquidClean**

# **SECTION 15: Regulatory information**

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

## 15.1.1. EU legislation

#### Other regulations (EU):

Volatile organic compounds (VOC) content in percent by weight: 0%

#### 15.1.2. National regulations

No data available

## 15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

#### 15.3. Additional information

No data available

## **SECTION 16: Other information**

## 16.1. Indication of changes

No data available

## 16.2. Abbreviations and acronyms

No data available

## 16.3. Key literature references and sources for data

No data available

# 16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Classification according to Regulation (EC) No 1272/2008 [CLP]-:

Hazard classes and hazard categories		Classification procedure
Corrosive to metals (Met. Corr. 1)	H290: May be corrosive to metals.	
Skin corrosion/irritation (Skin Corr. 1A)	H314: Causes severe skin burns and eye damage.	

## 16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements		
H314	Causes severe skin burns and eye damage.	

## 16.6. Training advice

No data available

## 16.7. Additional information

No data available