

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 20.12.2022

Version number 9 (replaces version 8)

Revision: 20.12.2022

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

#### 1.1 Product identifier

Trade name: **Intensive Cleaner**

Article number: 11920, 11921

UFI: QVR0-V0NE-F00W-QJG2

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

No further relevant information available.

#### Application of the substance / the mixture

Cleaning agent/ Cleaner

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

Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH  
Lechstrasse 28  
D 90451 Nürnberg

Tel. +49(0)911-642960  
Fax. +49(0)911-644456  
e-mail info@akemi.de

#### Further information obtainable from:

Laboratory

#### 1.4 Emergency telephone number:

Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH  
Tel. +49(0)911-64296-59  
Reachable during the following office hours:  
Monday – Thursday from 07:30 a.m. to 16:30 p.m.  
Friday from 07:30 a.m. to 13:30 p.m.

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification according to Regulation (EC) No 1272/2008

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

STOT SE 3 H335 May cause respiratory irritation.

#### 2.2 Label elements

##### Labelling according to Regulation (EC) No 1272/2008

##### Hazard pictograms

The product is classified and labelled according to the CLP regulation.



GHS05 GHS07

##### Signal word

Danger

##### Hazard-determining components of labelling:

2-aminoethanol  
potassium hydroxide

##### Hazard statements

H314 Causes severe skin burns and eye damage.  
H335 May cause respiratory irritation.

##### Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

P260 Do not breathe mist/vapours/spray.

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

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

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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.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**· 2.3 Other hazards**

· Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

**SECTION 3: Composition/information on ingredients****· 3.2 Mixtures**

· Description: Mixture of substances listed below with nonhazardous additions.

**· Dangerous components:**

CAS: 141-43-5 EINECS: 205-483-3 Index number: 603-030-00-8 Reg.nr.: 01-2119486455-28	2-aminoethanol Skin Corr. 1B, H314; Eye Dam. 1, H318 Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; STOT SE 3, H335 Aquatic Chronic 3, H412 Specific concentration limit: STOT SE 3; H335: C ≥ 5 %	<10%
CAS: 112-34-5 EINECS: 203-961-6 Index number: 603-096-00-8 Reg.nr.: 01-2119475104-44-xxxx 02-2119751533-40-0000	2-(2-butoxyethoxy)ethanol Eye Irrit. 2, H319	1-5%
CAS: 122-99-6 EINECS: 204-589-7 Index number: 603-098-00-9 Reg.nr.: 01-2119488943-21	2-phenoxyethanol Eye Dam. 1, H318 Acute Tox. 4, H302; STOT SE 3, H335 ATE: LD50 oral: 1,394 mg/kg	1-5%
CAS: 1310-58-3 EINECS: 215-181-3 Index number: 019-002-00-8 Reg.nr.: 01-2119487136-33	potassium hydroxide Met. Corr. 1, H290; Skin Corr. 1A, H314; Eye Dam. 1, H318 Acute Tox. 4, H302 Specific concentration limits: Skin Corr. 1A; H314: C ≥ 5 % Skin Corr. 1B; H314: 2 % ≤ C < 5 % Skin Irrit. 2; H315: 0.5 % ≤ C < 2 % Eye Irrit. 2; H319: 0.5 % ≤ C < 2 %	1-5%

· Regulation (EC) No 648/2004 on detergents / Labelling for contents

perfumes ((R)-p-mentha-1,8-diene, CITRAL)

&lt;5%

· Additional information: For the wording of the listed hazard phrases refer to section 16.

**SECTION 4: First aid measures****· 4.1 Description of first aid measures**

· General information: Immediately remove any clothing soiled by the product.

· After inhalation: Supply fresh air.

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact: Immediately wash with water and soap and rinse thoroughly.

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- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately. Do not induce vomiting; call for medical help immediately.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

**SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
- Suitable extinguishing agents: CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.  
Use fire extinguishing methods suitable to surrounding conditions.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- **5.2 Special hazards arising from the substance or mixture** Formation of toxic gases is possible during heating or in case of fire.
- **5.3 Advice for firefighters**
- Protective equipment: Do not inhale explosion gases or combustion gases.  
Mount respiratory protective device.

**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures** Particular danger of slipping on leaked/spilled product.  
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:** Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Use neutralising agent.  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **6.4 Reference to other sections** See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

**SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling** Keep receptacles tightly sealed.  
Ensure good ventilation/exhaustion at the workplace.
- Information about fire - and explosion protection: No special measures required.

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**7.2 Conditions for safe storage, including any incompatibilities**· **Storage:**· **Requirements to be met by storerooms and receptacles:**

Provide acid-resistant floor.

· **Information about storage in one common storage facility:**

Do not store together with reducing agents, heavy-metal compounds, acids and alkalis.

· **Further information about storage conditions:**

Protect from frost.

Keep container tightly sealed.

· **Storage class:**

8 A

· **7.3 Specific end use(s)**

No further relevant information available.

**SECTION 8: Exposure controls/personal protection**· **8.1 Control parameters**· **Ingredients with limit values that require monitoring at the workplace:****141-43-5 2-aminoethanol**IOELV Short-term value: 7.6 mg/m<sup>3</sup>, 3 ppmLong-term value: 2.5 mg/m<sup>3</sup>, 1 ppm

Skin

**112-34-5 2-(2-butoxyethoxy)ethanol**IOELV Short-term value: 101.2 mg/m<sup>3</sup>, 15 ppmLong-term value: 67.5 mg/m<sup>3</sup>, 10 ppm· **DNELs****141-43-5 2-aminoethanol**

Oral DNEL (Langzeit-wiederholt) 3.75 mg/kg bw/day (BEV)

Dermal DNEL (Langzeit-wiederholt) 1 mg/kg bw/day (ARB)

0.24 mg/kg bw/day (BEV)

Inhalative DNEL (Langzeit-wiederholt) 3.3 mg/m<sup>3</sup> Air (ARB)2 mg/m<sup>3</sup> Air (BEV)**112-34-5 2-(2-butoxyethoxy)ethanol**

Oral DNEL (Langzeit-wiederholt) 5 mg/kg bw/day (BEV)

Dermal DNEL (Langzeit-wiederholt) 83 mg/kg bw/day (ARB)

50 mg/kg bw/day (BEV)

Inhalative DNEL (Kurzzeit-akut) 101.2 mg/m<sup>3</sup> Air (ARB)7.5 mg/m<sup>3</sup> Air (BEV)DNEL (Langzeit-wiederholt) 67.5 mg/m<sup>3</sup> Air (ARB)40.5 mg/m<sup>3</sup> Air (BEV)**122-99-6 2-phenoxyethanol**

Oral DNEL (Langzeit-wiederholt) 17.43 mg/kg bw/day (BEV)

Dermal DNEL (Langzeit-wiederholt) 34.72 mg/kg bw/day (ARB)

20.83 mg/kg bw/day (BEV)

Inhalative DNEL (Kurzzeit-akut) 2.5 mg/m<sup>3</sup> Air (BEV)DNEL (Langzeit-wiederholt) 8.07 mg/m<sup>3</sup> Air (ARB)2.5 mg/m<sup>3</sup> Air (BEV)**1310-58-3 potassium hydroxide**Inhalative DNEL (Langzeit-wiederholt) 1 mg/m<sup>3</sup> Air (ARB)

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1 mg/m<sup>3</sup> Air (BEV)· **PNECs****141-43-5 2-aminoethanol**

PNEC (wässrig)	100 mg/l (KA)
	0.0085 mg/l (MW)
	0.085 mg/l (SW)
PNEC (fest)	0.028 mg/l (WAS)
	0.035 mg/kg Trockengew (BO)
	0.043 mg/kg Trockengew (MWS)
	0.434 mg/kg Trockengew (SWS)

**112-34-5 2-(2-butoxyethoxy)ethanol**

PNEC (wässrig)	200 mg/l (KA)
	0.11 mg/l (MW)
	1.1 mg/l (SW)
PNEC (fest)	3.9 mg/l (WAS)
	0.32 mg/kg Trockengew (BO)
	0.44 mg/kg Trockengew (MWS)
	4.4 mg/kg Trockengew (SWS)

**122-99-6 2-phenoxyethanol**

PNEC (wässrig)	24.8 mg/l (KA)
	0.0943 mg/l (MW)
	0.943 mg/l (SW)
PNEC (fest)	3.44 mg/l (WAS)
	1.26 mg/kg Trockengew (BO)
	0.7237 mg/kg Trockengew (MWS)
	7.2366 mg/kg Trockengew (SWS)

· **Additional information:** The lists valid during the making were used as basis.· **8.2 Exposure controls**

- Appropriate engineering controls No further data; see item 7.
- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Do not inhale gases / fumes / aerosols.  
Avoid contact with the eyes and skin.

· Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· Hand protection

Preventive skin protection by use of skin-protecting agents is recommended.  
After use of gloves apply skin-cleaning agents and skin cosmetics.  
The protection gloves to be used have to comply with the specifications of the directive 89/686/EC and the directive derived decree EN374, respectively, e.g. the above listed protection glove type. The mentioned permeation times' data were generated and verified with material samples of the recommended protection glove type in the scope of laboratory analyses of the company KCL GmbH in compliance with EN374.

This recommendation refers exclusively to the material safety data sheet referenced product delivered by Akemi and the indicated field of application. In case of product dilution or in case of mixture with different substances or chemicals, and in condition of EN374 deviation the producer of CE-approved

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protection gloves must be contacted for detailed information (e.g., KCL GmbH, Germany, 36124 Eichenzell, internet: <http://www.kcl.de>).

**Protective gloves**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

Butyl rubber, BR

Fluorocarbon rubber (Viton)

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove materialValue for the permeation: Level  $\leq 6$ , 480 min

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· For the permanent contact gloves made of the following materials are suitable:

Fluorocarbon rubber (Viton)

Vitoject (KCL, Art\_No. 890)

Butyl rubber, BR

Butoject (KCL, Art\_No. 897, 898)

· As protection from splashes gloves made of the following materials are suitable:

Nitrile rubber, NBR

Camatril (KCL, 730, 731, 732, 733)

Butoject (KCL, Art\_No. 897, 898)

Butyl rubber, BR

· Not suitable are gloves made of the following materials:

Leather gloves

Strong material gloves

· Eye/face protection**Tightly sealed goggles**· Body protection:

Protective work clothing

**SECTION 9: Physical and chemical properties**· **9.1 Information on basic physical and chemical properties**· General Information

- |   |                 |
|---|-----------------|
| · <u>Colour:</u>  | Yellowish       |
| · <u>Odour:</u>   | Light           |
| · <u>Odour threshold:</u>   | Not determined. |
| · <u>Melting point/freezing point:</u>                            | Undetermined.   |
| · <u>Boiling point or initial boiling point and boiling range</u> | 100 °C          |
| · <u>Flammability</u>   | Not applicable. |
| · <u>Lower and upper explosion limit</u>                          |                 |
| · <u>Lower:</u>   | Not determined. |
| · <u>Upper:</u>   | Not determined. |
| · <u>Flash point:</u>   | 93 °C           |
| · <u>Ignition temperature:</u>                                    | 385 °C          |

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· <u>Decomposition temperature:</u>	Not determined.
· <u>pH at 20 °C</u>	14
· <u>Viscosity:</u>	
· <u>Kinematic viscosity</u>	Not determined.
· <u>Dynamic:</u>	Not determined.
· <u>Solubility</u>	
· <u>water:</u>	Fully miscible.
· <u>Partition coefficient n-octanol/water (log value)</u>	Not determined.
· <u>Vapour pressure at 20 °C:</u>	23 hPa
· <u>Density and/or relative density</u>	
· <u>Density at 20 °C:</u>	1.06 g/cm <sup>3</sup>
· <u>Relative density</u>	Not determined.
· <u>Vapour density</u>	Not determined.

**9.2 Other information**

· <u>Appearance:</u>	
· <u>Form:</u>	Liquid
· <u>Important information on protection of health and environment, and on safety.</u>	
· <u>Auto-ignition temperature:</u>	Product is not selfigniting.
· <u>Explosive properties:</u>	Product does not present an explosion hazard.
· <u>Solvent content:</u>	
· <u>Organic solvents:</u>	19.5 %
· <u>Water:</u>	73.4 %
· <u>Change in condition</u>	
· <u>Evaporation rate</u>	Not determined.

Information with regard to physical hazard classes

· <u>Explosives</u>	Void
· <u>Flammable gases</u>	Void
· <u>Aerosols</u>	Void
· <u>Oxidising gases</u>	Void
· <u>Gases under pressure</u>	Void
· <u>Flammable liquids</u>	Void
· <u>Flammable solids</u>	Void
· <u>Self-reactive substances and mixtures</u>	Void
· <u>Pyrophoric liquids</u>	Void
· <u>Pyrophoric solids</u>	Void
· <u>Self-heating substances and mixtures</u>	Void
· <u>Substances and mixtures, which emit flammable gases in contact with water</u>	Void
· <u>Oxidising liquids</u>	Void
· <u>Oxidising solids</u>	Void
· <u>Organic peroxides</u>	Void
· <u>Corrosive to metals</u>	Void
· <u>Desensitised explosives</u>	Void

**SECTION 10: Stability and reactivity**

· <b>10.1 Reactivity</b>	No further relevant information available.
· <b>10.2 Chemical stability</b>	
· <u>Thermal decomposition / conditions to be avoided:</u>	No decomposition if used according to specifications.

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· **10.3 Possibility of hazardous reactions**

Reacts with alkali and metals.  
Reacts with strong oxidising agents.  
Reacts with metals forming hydrogen.

· **10.4 Conditions to avoid**

No further relevant information available.

· **10.5 Incompatible materials:**

No further relevant information available.

· **10.6 Hazardous decomposition products:**

Irritant gases/vapours

### 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.

· LD/LC50 values relevant for classification:

**ATE (Acute Toxicity Estimates)**

Oral	LD50	>2,620-4,161 mg/kg (rat)
Dermal	LD50	12,083 mg/kg (rbt)
Inhalative	LC50/4 h	130 mg/l

**141-43-5 2-aminoethanol**

Oral	LD50	1,089 mg/kg (rat)
Dermal	LD50	1,025 mg/kg (rbt)
Inhalative	LC50/4h	1,487 mg/m <sup>3</sup> (rat)
	LC50/4 h	11 mg/l (ATE)

**112-34-5 2-(2-butoxyethoxy)ethanol**

Oral	LD50	2,410 mg/kg (mouse) (OECD 401)
		>2,000 mg/kg (rat)
Dermal	LD50	2,764 mg/kg (rbt) (OECD 402)

**122-99-6 2-phenoxyethanol**

Oral	LD50	1,394 mg/kg (ATE)
		>300-2,000 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)

**1310-58-3 potassium hydroxide**

Oral	LD50	363 mg/kg (rat)
------	------	-----------------

- Skin corrosion/irritation Causes severe skin burns and eye damage.
- Serious eye damage/irritation Causes serious eye damage.
- 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 May cause respiratory irritation.
- 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.

· **11.2 Information on other hazards**

· Endocrine disrupting properties

128-37-0 Butylated hydroxytoluene

List II

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**SECTION 12: Ecological information****· 12.1 Toxicity****· Aquatic toxicity:****141-43-5 2-aminoethanol**

EC50	>1,000 mg/l (BES) (OECD 209) 110 mg/l (pseudomonas putida)
EC10/18h	87 mg/l (pseudomonas putida)
EC50/48h	65 mg/l (daphnia magna) (67/548/EWG, Anhang V, C.2.)
EC50/16h	110 mg/l (pseudomonas putida) (DIN 38412)
EC20/0.5h	>1,000 mg/l (BES) (OECD 209)
NOEC/21d	0.85 mg/l (daphnia magna)
EC50/72h	22 mg/l (Scenedesmus subspicatus) (EG 92/69) 2.5 mg/l (selenastrum capricornutum) (OECD 201)
LC50/96h	170 mg/l (carassius auratus) (APHA 1971) 349 mg/l (Cyprinus carpio) (OECD 203; 92/69 EG) 329 mg/l (Iem)

**112-34-5 2-(2-butoxyethoxy)ethanol**

EC50/24h	2,850 mg/l (daphnia magna) (DIN 38412)
EC50/96h	>100 mg/l (Desmodesmus subspicatus) >100 mg/l (Scenedesmus subspicatus)
EC10/16h	1,170 mg/l (pseudomonas putida)
EC5	73 mg/l (Entosiphon sulcatum)
EC50/48h	>100 mg/l (daphnia magna) (EU method C.2)
ErC50/72h	1,101 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
NOEC	>100 mg/kg (Desmodesmus subspicatus)
EC10	>1,995 mg/l (Klärschlamm: Atmungs-/Vermehrungshemmung)
EC50/72h	>100 mg/l (Desmodesmus subspicatus)
LC50/96h	1,300 mg/l (Iepomis macrochirus) (OECD 203) >100 mg/l (Leuciscus idus) 1,150 mg/l (poecilia reticulata)

**122-99-6 2-phenoxyethanol**

EC50/48h	>100 mg/l (daphnia magna)
NOEC	>1 mg/kg (pimephales promelas)
NOEC/21d	>1 mg/l (daphnia magna)
EC10	>100 mg/l (pseudomonas putida)
EC50/72h	>100 mg/l (Scenedesmus subspicatus)
LC50/96h	>100 mg/l (pimephales promelas)

**1310-58-3 potassium hydroxide**

LC50/24h	165 mg/l (Guppy)
EC50/15min	22 mg/l (Phosphobakteriumphosphoreum)
EC50/48h	40.4 mg/l (daphnia magna)
LC50/96h	80 mg/l (Mosquitofisch) 45.4 mg/l (rainbow trout)

**· 12.2 Persistence and degradability**

No further relevant information available.

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- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.
- **12.7 Other adverse effects**
- **Additional ecological information:**
- **General notes:** Must not reach sewage water or drainage ditch undiluted or unneutralised. Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous. Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

**SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**
- **Recommendation** Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

**SECTION 14: Transport information**

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>· <b>14.1 UN number or ID number</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>  | <p>UN1719</p>   |
| <ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG, IATA</b></li> </ul>  | <p>1719 CAUSTIC ALKALI LIQUID, N.O.S. (POTASSIUM HYDROXIDE)<br/>CAUSTIC ALKALI LIQUID, N.O.S. (POTASSIUM HYDROXIDE)</p> |
| <ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class(es)</b></li> <li>· <b>ADR</b></li> </ul>  | <p>8 (C5) Corrosive substances.</p>   |
| <div style="text-align: center;">  </div> <ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul> | <p>8</p>  |
| <ul style="list-style-type: none"> <li>· <b>IMDG, IATA</b></li> </ul>   |   |
| <div style="text-align: center;">  </div> <ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul> | <p>8 Corrosive substances.<br/>8</p>  |

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## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 20.12.2022

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**Trade name: Intensive Cleaner**

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· <b>14.4 Packing group</b>	
· <u>ADR, IMDG, IATA</u>	II
· <b>14.5 Environmental hazards:</b>	
· <u>Marine pollutant:</u>	No
· <b>14.6 Special precautions for user</b>	Warning: Corrosive substances.
· <u>Hazard identification number (Kemler code):</u>	80
· <u>EMS Number:</u>	F-A,S-B
· <u>Segregation groups</u>	(SGG18) Alkalis
· <u>Stowage Category</u>	A
· <u>Segregation Code</u>	SG22 Stow "away from" ammonium salts SG35 Stow "separated from" SGG1-acids
· <b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not applicable.
· <u>Transport/Additional information:</u>	
· <u>ADR</u>	
· <u>Limited quantities (LQ)</u>	1L
· <u>Excepted quantities (EQ)</u>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <u>Transport category</u>	2
· <u>Tunnel restriction code</u>	E
· <u>IMDG</u>	
· <u>Limited quantities (LQ)</u>	1L
· <u>Excepted quantities (EQ)</u>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <u>UN "Model Regulation":</u>	UN 1719 CAUSTIC ALKALI LIQUID, N.O.S. (POTASSIUM HYDROXIDE), 8, II

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

- Directive 2012/18/EU
- Named dangerous substances - ANNEX I None of the ingredients is listed.
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 55

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

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· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

· National regulations:· Information about limitation of use: Employment restrictions concerning juveniles must be observed.· Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.· Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is listed.

· VOC EU 913.9 g/l· **15.2 Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Laboratory· Date of previous version: 20.12.2022· Version number of previous version: 8

· Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
 IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
 ICAO: International Civil Aviation Organisation  
 ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)  
 ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 DNEL: Derived No-Effect Level (REACH)  
 PNEC: Predicted No-Effect Concentration (REACH)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bioaccumulative and Toxic  
 SVHC: Substances of Very High Concern  
 vPvB: very Persistent and very Bioaccumulative  
 Met. Corr. 1: Corrosive to metals – Category 1  
 Acute Tox. 4: Acute toxicity – Category 4  
 Skin Corr. 1A: Skin corrosion/irritation – Category 1A  
 Skin Corr. 1B: Skin corrosion/irritation – Category 1B  
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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