

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 13.08.2019

Version number 2

Revision: 13.08.2019

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.
+44 (171) 635 91 91
National Poison Inform. Centre
Medical Toxicology Unit
Avalonley Road
London SE14 5ER

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS05 corrosion

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

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

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

Hazard statements

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- Precautionary statements
- | | |
|----------------|--|
| P101 | If medical advice is needed, have product container or label at hand. |
| P102 | Keep out of reach of children. |
| P103 | Read label before use. |
| P260 | Do not breathe mist/vapours/spray. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P301+P330+P331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. |
| 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 Chemical characterisation: 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 ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; STOT SE 3, H335	<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.: 01-2119488943-21-000x	2-Phenoxyethanol ⚠ Acute Tox. 4, H302; Eye Irrit. 2, H319	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 ⚠ Acute Tox. 4, H302	1-5%
CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0 Reg.nr.: 01-2119457558-25-xxxx	propan-2-ol ⚠ Flam. Liq. 2, H225 ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	<1%

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

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

<5%

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

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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.
- 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: CO₂, 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.

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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.

- 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

- Additional information about design of technical facilities:

No further data; see item 7.

- 8.1 Control parameters**

- Ingredients with limit values that require monitoring at the workplace:

141-43-5 2-aminoethanol

WEL Short-term value: 7.6 mg/m³, 3 ppm
Long-term value: 2.5 mg/m³, 1 ppm
Sk

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

WEL Short-term value: 101.2 mg/m³, 15 ppm
Long-term value: 67.5 mg/m³, 10 ppm

1310-58-3 potassium hydroxide

WEL Short-term value: 2 mg/m³

67-63-0 propan-2-ol

WEL Short-term value: 1250 mg/m³, 500 ppm
Long-term value: 999 mg/m³, 400 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 ³ Air (ARB) 2 mg/m ³ Air (BEV)

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

Oral	DNEL (Langzeit-wiederholt)	1.25 mg/kg bw/day (BEV)
Dermal	DNEL (Langzeit-wiederholt)	20 mg/kg bw/day (ARB) 10 mg/kg bw/day (BEV)
Inhalative	DNEL (Kurzzeit-akut)	101.2 mg/m ³ Air (ARB)

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	DNEL (Langzeit-wiederholt)	7.5 mg/m ³ Air (BEV) 67.5 mg/m ³ Air (ARB) 34 mg/m ³ Air (BEV)
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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 ³ Air (BEV)
	DNEL (Langzeit-wiederholt)	8.07 mg/m ³ Air (ARB) 2.5 mg/m ³ Air (BEV)

67-63-0 propan-2-ol

Oral	DNEL (Langzeit-wiederholt)	26 mg/kg bw/day (BEV)
Dermal	DNEL (Langzeit-wiederholt)	888 mg/kg bw/day (ARB) 319 mg/kg bw/day (BEV)
Inhalative	DNEL (Langzeit-wiederholt)	500 mg/m ³ Air (ARB) 89 mg/m ³ Air (BEV)

· PNECs**141-43-5 2-aminoethanol**

PNEC (wässrig)	100 mg/l (KA) 0.0085 mg/l (MW) 0.085 mg/l (SW) 0.025 mg/l (WAS)
PNEC (fest)	0.035 mg/kg Trockengew (BO) 0.0425 mg/kg Trockengew (MWS) 0.425 mg/kg Trockengew (SWS)

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

PNEC (wässrig)	200 mg/l (KA) 0.1 mg/l (MW) 1 mg/l (SW) 3.9 mg/l (WAS)
PNEC (fest)	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) 3.44 mg/l (WAS)
PNEC (fest)	1.26 mg/kg Trockengew (BO) 0.7237 mg/kg Trockengew (MWS) 7.2366 mg/kg Trockengew (SWS)

67-63-0 propan-2-ol

PNEC (wässrig)	2,251 mg/l (KA) 140.9 mg/l (MW) 140.9 mg/l (SW) 140.9 mg/l (WAS)
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PNEC (fest)	28 mg/kg Trockengew (BO)
	552 mg/kg Trockengew (MWS)
	552 mg/kg Trockengew (SWS)

· Additional information: The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· 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.

· Protection of hands:

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 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 material

Value for the permeation: Level ≤ 6 , 480 min

The exact break through 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)

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- Not suitable are gloves made of the following materials:

Butyl rubber, BR

Leather gloves
Strong material gloves

- Eye 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

• Appearance:

Form:

Liquid

Colour:

Yellowish

• Odour:

Light

• Odour threshold:

Not determined.

• pH-value at 20 °C:

14

• Change in condition

Melting point/freezing point:

Undetermined.

Initial boiling point and boiling range: 100 °C

• Flash point:

93 °C

• Flammability (solid, gas):

Not applicable.

• Ignition temperature:

385 °C

• Decomposition temperature:

Not determined.

• Auto-ignition temperature:

Product is not selfigniting.

• Explosive properties:

Product does not present an explosion hazard.

• Explosion limits:

Lower:

Not determined.

Upper:

Not determined.

• Vapour pressure at 20 °C:

23 hPa

• Density at 20 °C:

1.06 g/cm³

• Relative density

Not determined.

• Vapour density

Not determined.

• Evaporation rate

Not determined.

• Solubility in / Miscibility with water:

Fully miscible.

• Partition coefficient: n-octanol/water:

Not determined.

• Viscosity:

Dynamic:

Not determined.

Kinematic:

Not determined.

• Solvent content:

Organic solvents:

19.5 %

Water:

73.4 %

• 9.2 Other information

No further relevant information available.

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SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **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 toxicological effects**
- **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 ³ (rat)
	LC50/4 h	11 mg/l (ATE)

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

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

122-99-6 2-Phenoxyethanol

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

1310-58-3 potassium hydroxide

Oral	LD50	363 mg/kg (rat)
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67-63-0 propan-2-ol

Oral	LD50	>2,000 mg/kg (rabbit)
		5,840 mg/kg (rat) (OECD 401)
	NOAEL-Werte	400 mg/kg (rat)
Dermal	LD50	13,900 mg/kg (rabbit) (OECD 402)
Inhalative	LC50/8h	47.5 ppm (rat)
	LC50/4 h	30-46.5 mg/l (rat)
	LC50	25,000 mg/m ³ (rat)
	LC50/48h	>100 mg/l (Leuciscus idus)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Causes severe skin burns and eye damage.
- **Serious eye damage/irritation** Causes serious eye damage.

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- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
- 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.

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)
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)
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)
	>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)

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EC50/48h	40.4 mg/l (daphnia magna)
LC50/96h	80 mg/l (Mosquitofisch)
	45.4 mg/l (rainbow trout)

67-63-0 propan-2-ol

EC50/24h	9,714 mg/l (daphnia magna)
EC50	>1,000 mg/l (BES)
LC50/24h	9,714 mg/l (daphnia magna)
EC50/15min	22,000 mg/l (Photobac. phosphoreum)
IC50/72h	>1,000 mg/l (Desmodesmus subspicatus)
EC10/18h	5,175 mg/l (pseudomonas putida) (DIN 38412)
EC50/48h	13,299 mg/l (daphnia magna)
EC50/72h	>1,000 mg/l (green alge)
	>100 mg/l (Scenedesmus subspicatus)
LC50/96h	6,550 mg/l (piscis)
	9,640 mg/l (Pimephales promelas)

- **12.2 Persistence and degradability**

No further relevant information available.

- **12.3 Bioaccumulative potential**

No further relevant information available.

- **12.4 Mobility in soil**

No further relevant information available.

- **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

- **12.5 Results of PBT and vPvB assessment**

- **PBT:**

Not applicable.

- **vPvB:**

Not applicable.

- **12.6 Other adverse effects**

No further relevant information available.

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

- **14.1 UN-Number**

- **ADR, IMDG, IATA**

UN1719

- **14.2 UN proper shipping name**

- **ADR**

1719 CAUSTIC ALKALI LIQUID, N.O.S. (POTASSIUM HYDROXIDE)

- **IMDG, IATA**

CAUSTIC ALKALI LIQUID, N.O.S. (POTASSIUM HYDROXIDE)

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14.3 Transport hazard class(es)

· ADR



· Class 8 (C5) Corrosive substances.
 · Label 8

· IMDG, IATA



· Class 8 Corrosive substances.
 · Label 8

14.4 Packing group

· ADR, IMDG, IATA II

14.5 Environmental hazards:

· Marine pollutant: No

14.6 Special precautions for user

Warning: Corrosive substances.
 · Danger code (Kemler): 80
 · EMS Number: F-A,S-B
 · Segregation groups Alkalis
 · Stowage Category A
 · Segregation Code SG22 Stow "away from" ammonium salts
 SG35 Stow "separated from" SGG1-acids

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

· Transport/Additional information:

· ADR

· Limited quantities (LQ)

· Excepted quantities (EQ)

1L

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

· Transport category

2

· Tunnel restriction code

E

· IMDG

· Limited quantities (LQ)

· Excepted quantities (EQ)

1L

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

· UN "Model Regulation":

UN 1719 CAUSTIC ALKALI LIQUID, N.O.S. (POTASSIUM HYDROXIDE), 8, II

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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 1907/2006ANNEX XVII

Conditions of restriction: 3, 55

· 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.

· VOC EU

913.8 g/l

· 15.2 Chemical safetyassessment:

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.

· Relevant phrases

H225 Highly flammable liquid and vapour.

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

· Department issuing SDS:

Laboratory

· Contact:

Dieter Zimmermann

· 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 européen sur le transport 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

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

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

· * Data compared to the previous version altered.

Adaptation in accordance with REACH directive 1907/2006/EC