

According to regulation 1907/2006/EG

Trade name: Battery fluid, alkaline Revised on: 08-10-2021

Tel.: +49 375 86-0

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1. Identification of the Substance or Preparation and of the Company

- Indications on the production: Battery fluid, alkaline
- Use of the product: Battery liquid is necessary for the operation of alkaline NiCd accumulators
- Manufacturer / Supplier:

GAZ Geräte- und Akkumulatorenwerk Zwickau GmbH P.O. Box 200457 08004 Zwickau , GERMANY

24 Hr. Emergency Assistance call: +49 / (0)700 24112112 (contact ID: GAZ)

For USA deliveries: +49 / (0)700 24112112 (contact ID: GAZ)

+ 1 872 5888 271 (contakt ID: GAZ)

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2. Possible dangers:

GHS hazard identification



Signal word: "Danger"

Hazard warnings - H-phrases

H314 - Causes severe skin burns and eye damage

H302 - Harmful if swallowed

H290 - May be corrosive to metals.

Safety notes - P-phrases

P280 Wear protective gloves/protective clothing/eye protection/face protection P301+P330+P331 If swallowed: Rinse mouth. Do not induce vomiting. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P309+P311 If exposed or if you feel unwell: Immediately call a poison centre or doctor/physician.

Complete wording of H, P, -phrases see item 16

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3. Composition/indication on components

Chemical characterisation:

Aqueous solution

Dangerous ingredients:

Name	chem. formula	EINECS number	CAS number	Components . %	Classif. acc. to 67/548/EWG	Classif. acc. to 1272/2008/EG	
Potassiun hydroxide		215-181-3	1310-58-3	approx. 22	Xn; R22 C; R35	Met.Corr.1: H290 Acute Tox.4: H302 Skin Corr.1A: H314	
Lithium hydroxide		215-183-4	1310-65-2	approx. 0.7	see above	see above	see above
Dest. water Complete word	ding of H, P	P, R, S-phrase	s see item 16).	not classified		

4. First aid measures:

General notes:

Immediately remove clothes contaminated with battery liquid

After inhalation:

Fresh air or oxygen supply; seek medical aid.

• After skin contact:

Immediately wash with plenty of water.

Seek medical attention.

After eye contact:

Rinse the open eyes immediately with plenty of water for at least 10 minutes.

After that, immediately seek medical advice (eye specialist).

After ingestion:

Rinse mouth and drink plenty of water.

Do not induce vomiting, seek medical advice immediately.

5. Fire fighting measures

5.1 Suitable extinguishing media:

Use fire fighting measures that suit the environment.

5.2 Special dangers

inflammable

5.3 Special protective equipment

Protective suit, independent respiratory protection

6. Accidental release measures

Avoid substance contact.

Rinse spilled electrolyte with plenty of water. Prevent the danger of skidding. Contain bigger amounts and pump into containers; absorb the rest with absorbent material and dispose of properly. Rinse smaller amounts with water. Dispose of waste water properly.

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7. Handling and storage

Provide a good ventilation of the working room.

Provide an alkaline-resistant floor covering.

Open and handle the container with care.

Provide washing facilities or eye washes.

Store in a dry place

8. Exposure controls / personal protection

Components with critical values that require monitoring at the workplace: Not required General protection and hygienical measures/personal protection equipment:

Immediately remove contaminated, soaked clothes.

Wash hands before breaks and end of work.

Avoid contact to skin and eyes.

During work always wear safety glasses and protective gloves (nitrile rubber).

9. Physical properties

- General indications

Form: liquid colourless

- Melting point/melting range: not applicable

- Boiling point/boiling range: approx. 106 °C

- Flash point/melting range: not applicable

- Flammability: The substance is not flammable

Danger of explosion: not explosive
 Density at 20°C: 1.20 g/cm³
 Solubility in water: not applicable

- pH value at 20°C: ~ 14

10. Stability and reactivity:

10.1 Conditions to be avoided No relevant information available

10.2 Materials to be avoided

Light metals, hydrocarbons, acids, halogens, phosphor, alkaline earth metals, non-metallic oxides

10.3 Dangerous decomposition products

No dangerous decomposition products known

11. Information on toxicology:

Potassium hydroxide LD50 / oral / rat: 273 mg/kg Lithium hydroxide LD50 / oral / rat: 210 mg/kg

Primary irritant effect:

On the skin: Strong caustic effect on skin and mucous membranes.

In the eye: Conjunctive burns

After inhalation: Chemical injury of mucous membranes, cough, shortness of breath, pulmonary oedema

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12. Information on ecology:

Indications on elimination (persistence and degradability):

Potassium hydroxide is degraded by reaction with the carbon monoxide in the air.

Behaviour in environmental compartments:

Potassium hydroxide is water-soluble. It has only a reduced bio-accumulation potential. Mobility in soils: high

Liquid with low volatility.

Ecotoxic effect: Can be harmful to vegetation.

Aquatic toxicity:

Harmful to fish

pH values ≥ 10.5 can kill fish and other aquatic organisms.

Causes severe damage to aquatic plants.

High concentrations have severe harmful effects on sewage treatment plants.

General notes:

Do not allow to run into surface waters, waste water, or soil.

Water hazard class 1 (self-classification): Slightly water hazardous

13. Note on disposal:

Product:

Recommendation:

The product must be disposed off according to the corresponding national regulations

Uncleaned packaging:

Recommendation:

Disposal according to the national regulations

Packages which cannot be cleaned are to be disposed off in the same manner as the product.

14. Transport regulations:

Land transport ADR / RID and GGVS / GGVE (cross-border / inland):

ADR / RID - GGVS / E class Kemler number: 80 **UN** number: 2797

Denomination of the goods: Battery fluid, alkaline

Marine transport IMDG / GGVSee:

IMDG / GGVSee class: **UN** number: 2797 Packing group: II. EMS number: F-A, S-B

Correct technical name: Battery fluid, alkaline

Air transport ICAO - TI and IATA - DGR:

ICAO / IATA class: UN /ID number: 2797. Packing group:

Correct technical name: Battery fluid, alkaline

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15. Regulations:

- National regulations: VwVwS, German Regulation on Substances Hazardous to Water
- Classification according to regulation for industrial safety:
- Water hazard class: WGK 1 (list classification): Slightly water hazardous.

16. Miscellaneous indications:

Complete wording of H, P, R, S-phrases

H290 May be corrosive to metals.

H302 Harmful if swallowed

H314 Causes severe skin burns and eye damage

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

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

P301+P330+P331 If swallowed: Rinse mouth. Do not induce vomiting.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P309+P311 If exposed or if you feel unwell: Immediately call a poison centre or doctor/physician.

P303+P361+P353 If on skin: Remove/Take off immediately all contaminated clothing.

Rinse skin with water/shower.

The specifications rest on the today's stand of our knowledge, they show in particular no assurance of product features and justify no contractual legal relationship.