GAZ Geräte- und Akkumulatorenwerk Zwickau GmbH

Information on the safe handling of NiCd cells/batteries

Trade name: Nickel Cadmium Battery Rev 5

30/10/2024

Preview

This information sheet on safe handling of NiCd cells/batteries is based on applicable regulations for the preparation of a safety data sheet Regulation (EU) No 2020/878 for substances; however, it is a product accordance with REACH Regulation (EC) No 1907/2006 and, therefore, not subject to classification in accordance with CLP Regulation (EC) No 1272/2008.

It is very unlikely that NiCd cells/batteries pose a hazard or that individual hazardous substances can escape at regular handling.

Please also note the currently applicable maintenance and handling instructions for the NiCd type you have purchased. You will receive these when you purchase the product or ask your seller for them.

NiCd cells/batteries must only be used by trained personnel and are not suitable for private use.

1. Identification of the substance/mixture and of the company

1.1. Product details:

NiCd cell/secondary battery (wet, filled with potash, rechargeable, alkaline, closed

- Trade name: KL, KM, KH, KGL, KGM, VGL, VGM, TP, TSP, RL, RM, RH, and other plastic/steel cells
- Nominal voltage: 1.2 V / cell

1.2. Use

Batteries that can only be used for industrial, commercial, or agricultural purposes

1.3. Manufacturer / supplier:

GAZ Geräte- und Akkumulatorenwerk Zwickau GmbH
PO Box 200457
D-08004 Zwickau,
Phone: +49 375 86-0
GERMANY

1.4. 24-hour emergency number

Europe:
+49 / (0)700 24112112 (Contact ID: GAZ)
USA:
+ 1 872 5888 271 (Contact ID: GAZ)

2. Hazards identification:

2.1. Classification in accordance with Regulation (EC) No 1272/2008

The product is not classified in accordance with the CLP regulation.

2.2. Label elements

Signal word not applicable
Hazard warnings not applicable
Additional information:
The product is a product within the meaning of the REACH Regulation (EC) No. 1907/2006 and, therefore, not subject to marking in accordance with CLP Regulation (EC) No 1272/2008.

2.3. Other hazards

When used as intended and in accordance with the instructions for use, NiCd rechargeable batteries do not pose any particular hazard.

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The DIN EN IEC 62485-1 VDE 0510-485-1:2019-01 standard contains safety requirements for batteries and battery systems and describes the basic measures for protection against hazards caused by electric current, escaping gases and electrolyte.

Please note:

- Do not short-circuit the cell/battery.
- Do not disassemble or modify the cell/battery.
- Keep fire or naked flames away from the cell/battery at all times.
- Battery systems with voltages > 60 volts should always be stored in areas with restricted access.
- The only chemical risk is the corrosive effect of the electrolyte in normal use. Appropriate precautions are, therefore, required when filling and emptying the battery cells. Potash causes severe skin burns and serious eye damage and is harmful if swallowed.
- Rechargeable batteries can supply high voltages and currents.

3. Components

Substances				Classification		
Name	**Chem. formula**	**Index number**	**CAS number**	**Percentage by weight[1]**	**GHS symbol**	**Dangers**
Nickel oxi hydroxide	NiOOH	xx	55070-72-9	13-17		Carc. 1 - H350i Repr. 1B – H360D Muta. 2 – H341 STOT RE 1 – H372 Skin Irrit. 2 – H315 Skin Sens. 1 – H317 Resp. Sens. 1 – H334 Acute Tox. 4 – H302, Aquatic Acute 1 – H400 Aquatic Chronic 1 – H410
Nickel hydroxide	Ni(OH)2	028-008-00-X	12054-48-7			
Cadmium	Cd	048-002-00-0	7440-43-9	13-16		Carc. 1B – H350 Repr. 2 – H361fd Muta. 2 – H341 STOT RE 1 – H372 Acute Tox 2 – H330 Aquatic Acute 1 – H400 Aquatic Chronic 1 – H410
Cadmium hydroxide	Cd(OH)2	048-001-00-5	21041-95-2			
Potassium hydroxide	KOH	215-181-3	1310-58-3	28-33		Skin Corr.1A – H314 Met. Corr. 1 – H290 Acute Tox. 4 – H302
Lithium hydroxide	LiOH	xx	1310-66-3	0.2-0.8		tox - H301 skin burns and eye damage - H314
Cobalt	Co	027-001-00-9	7440-48-4	0.2-0.8		Carc. 1 - H350i Resp. Sens. 1 – H334
Iron	Fe	xx	7439-89-6	28-33		
Polystyrene		xx	9003-53-6	6-7		

Notice: The precise composition depends on the cell type and the state of charge of the cell.

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4. First-aid measures in the event of contact with caustic potash solution

4.1. General information:
Immediately remove items of clothing contaminated with caustic potash solution.

- **Upon inhalation:**
  Fresh air or oxygen supply; seek medical attention.
- **Upon skin contact:**
  Wash off immediately with plenty of water.
  Consult a doctor.
- **Upon eye contact:**
  Rinse for at least 10 minutes with running water with the eye held open.
  Then consult an (eye) doctor immediately.
- **Upon ingestion:**
  Rinse mouth and drink plenty of water.
  Do not induce vomiting, seek medical attention immediately.

4.2. Most important symptoms and effects, both acute and delayed
No further relevant information available.

4.3. Information on immediate medical assistance or specialised treatment
Depending on the patient's condition, symptoms and general condition should be assessed by the doctor.

5. Firefighting measures

5.1. Extinguishing media:
Powder, carbon dioxide, sand
Unsuitable: water in full jet

5.2. Special hazards
The cells may overheat due to an external source or an internal short circuit and develop potassium hydroxide mist and/or hydrogen gas. Fire can produce vapours containing cadmium, nickel, and combustion products from polyamide.

5.3. Special protective equipment
Protective suit, self-contained breathing apparatus

6. Accidental release measure (potash)

6.1. Personal precautions
Use personal protective equipment if necessary. Avoid contact with skin, eyes, or clothing. Prevent the risk of slipping.

6.2. Environmental precautions
Prevent the product from entering the soil, ditches, sewers, bodies of water, and/or groundwater.

(a) Smaller quantities

Rinse electrolyte with large quantities of water or soak with chemical fleeces. Neutralise with acetic acid or boric acid (5%).

(b) Larger quantities

Contain and pump into containers;

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Take up the remainder with absorbent material and dispose of in accordance with regulations.

See section 12: Ecological information.
See section 13: Notices on disposal

7. Handling and storage

7.1. Precautions for safe handling

Please also note the currently applicable maintenance and handling instructions for the GAZ NiCd cell type you have purchased. You will receive these when you purchase the product or ask your seller for them.
NiCd cells/batteries must only be used by trained personnel and are not suitable for private use.

Notices on fire and explosion protection:
Keep away from fire, sparks, and other sources of ignition.
Handle the cells carefully to avoid short circuits or misuse.

7.2. Conditions for safe storage, including any incompatibilities

Do not transport cells without transport plugs.
Only transport and store cells filled with electrolyte in an upright position.
For storage periods of > 3 months, the cells should be deep-discharged, between 5 °C and 30 °C and stored in a dry place.
Recommended storage temperature: Room temperature
VbF class: not applicable

7.3. Specific end uses

No further relevant information available.

8. Exposure controls/personal protection

8.1. Control parameters

NiCd batteries are products from which no substances will be released under normal and reasonably foreseeable usage conditions.

Components with limit values that require monitoring at the workplace:

CAS: 1306-19-0 Cadmium oxide (stabilised)

BOELV (European Union)	Long-term value: 0.001 (0.004)* mg/m³
AGW (Germany)	Long-term value: 0.002 (E) mg/m³
TRGS 910 (Germany)	Short-term value: 0.002 (A) mg/m³ Long-term value: 0.0009 (A) mg/m³ 8, concentrations refer to Cd content

CAS: 7440-43-9 Cadmium (stabilised)

BOELV (European Union)	Long-term value: 0.001 (0.004)* mg/m³
AGW (Germany)	Long-term value: 0.002 (E) mg/m³
TRGS 910 (Germany)	Short-term value: 0.002 (A) mg/m³

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	Long-term value: 0.0009 (A) mg/m³ 8, concentrations refer to Cd content

CAS: 12054-48-7 Nickel dihydroxide

BOELV (European Union)	Long-term value: 0.001 (0.004)* mg/m³
AGW (Germany)	Long-term value: 0.030E mg/m³ 8(II);AGS, Sh, Y, 10, 24, 31
TRGS 910 (Germany)	Short-term value: 0.006 (A) mg/m³ Long-term value: 0.006 (A) mg/m³ 8, concentrations refer to Ni content

CAS: 7440-02-0 Nickel

BOELV (European Union)	Not specified
AGW (Germany)	Long-term value: 0.030E mg/m³ 8(II);AGS, Sh, Y, 10, 24, 31
TRGS 910 (Germany)	Not specified

CAS: 1310-58-3 Potassium hydroxide

BOELV (European Union)	Not specified
AGW (Germany)	Not specified
TRGS 910 (Germany)	Not specified

DNEL values

CAS: 7440-02-0 Nickel

Oral	Long-term exposure - systemic effects Long-term exposure - local effects Short-term exposure - systemic effects Short-term exposure - local effects	0.011 mg/kg bw/d (consumer) Not specified 0.37 mg/kg bw (consumer) Not specified
Dermal	Long-term exposure - systemic effects Long-term exposure - local effects Short-term exposure - systemic effects Short-term exposure - local effects	Not specified 0.035 mg/cm² (consumer) 0.035 mg/cm² (employee) Not specified Not specified
Inhalative	Long-term exposure - systemic effects Long-term exposure - local effects Short-term exposure - systemic effects Short-term exposure - local effects	0.00006 mg/m³ (consumer) 0.05 mg/m³ (employee) 0.00006 mg/m³ (consumer) 0.05 mg/m³ (employee) Not specified 0.8 mg/m³ (consumer) 11.9 mg/m³ (employee)

CAS: 1310-58-3 Potassium hydroxide

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Oral	Long-term exposure - systemic effects Long-term exposure - local effects Short-term exposure - systemic effects Short-term exposure - local effects	Not specified Not specified Not specified Not specified
Dermal	Long-term exposure - systemic effects Long-term exposure - local effects Short-term exposure - systemic effects Short-term exposure - local effects	Not specified Not specified Not specified Not specified
Inhalative	Long-term exposure - systemic effects Long-term exposure - local effects Short-term exposure - systemic effects Short-term exposure - local effects	1 mg/m³ (employee) 1 mg/m³ (consumer) Not specified Not specified

CAS: 7440-48-4 Cobalt

Oral	Long-term exposure - systemic effects Long-term exposure - local effects Short-term exposure - systemic effects Short-term exposure - local effects	0.0298 mg/kg bw/d (consumer) Not specified Not specified Not specified
Dermal	Long-term exposure - systemic effects Long-term exposure - local effects Short-term exposure - systemic effects Short-term exposure - local effects	Not specified Not specified Not specified Not specified
Inhalative	Long-term exposure - systemic effects Long-term exposure - local effects Short-term exposure - systemic effects Short-term exposure - local effects	Not specified 0.0063 mg/m³ (consumer) 0.04 mg/m³ (employee) Not specified Not specified

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PNEC values

CAS: 7440-02-0 Nickel

Freshwater	7.1 µg/l
Sea water	8.6 µg/l
Sewage treatment plant	0.33 mg/l
Sediment (fresh water)	109 mg/kg dw
Sediment (seawater)	109 mg/kg dw
Soil	29.9 mg/kg dw
Oral	0.12 mg/kg food

CAS: 7440-48-4 Cobalt

Freshwater	0.6 µg/l
Sea water	2.36 µg/l
Sewage treatment plant	0.37 mg/l
Sediment (fresh water)	9.5 mg/kg dw
Sediment (seawater)	9.5 mg/kg dw
Soil	10.9 mg/kg dw
Oral	Not specified

8.2. Exposure controls and monitoring

Special personal protective equipment is not required under normal conditions of use; it is sufficient to wear safety goggles and protective gloves.
The prescribed PPE (safety goggles or face protection, protective rubber gloves and rubber apron) must be worn during all disassembly, cleaning, and reassembly of the cells. All PPE must withstand 50% KOH solution within its service life.

Cells can emit electrolyte aerosols if they are topped up with water before the end of charging.

Suitable technical control equipment
No further details, see section 7.
Technical measures and the use of suitable working procedures take precedence over the use of personal protective equipment.

Individual protective measures, e.g., personal protective equipment

General protective and hygiene measures:
Observe the usual precautionary measures for handling chemicals.
Keep away from food, drink, and animal feed.
Do not eat or drink at work.
Avoid skin and eye contact with damaged batteries.
Avoid inhalation of spilled material. Remove contaminated clothing and wash it before wearing it again.
body protection equipment must be selected depending on the concentration of hazardous substances

and the quantity of the workplace. Chemical resistance of the protective agents should be clarified with their suppliers.
Provide eye wash bottles and emergency showers in the immediate vicinity of the workplace.

Respiratory protection
Not required when handling undamaged batteries.
Hand protection
Not required when handling undamaged batteries.
Wear protective gloves made of chloroprene or rubber if the batteries are damaged.
Glove material
The selection of a suitable glove depends not only on the material, but also on other quality features and varies from manufacturer to manufacturer.
Selection of the glove material under consideration of the breakthrough times, permeation rates, and degradation.
Penetration time of the glove material
The precise breakthrough time must be obtained from the protective glove manufacturer and complied with.
Eye/face protection
Not required when handling undamaged batteries.
Wear safety goggles if the batteries are damaged.
Body protection:
Not required when handling undamaged batteries.
Limiting and monitoring environmental exposure
Do not allow to enter drains/surface water/groundwater.

9. Physical properties referring to the individual cell

9.1. Information on basic physical and chemical properties

Physical shape and colour as supplied.

General information

Aggregate state	Firm
Colour	No information available
Odour:	No information available
Odour threshold:	No information available
Melting point/freezing point:	No information available
Boiling point or start of boiling and boiling range	No information available.
Flammability	Not determined.
Lower and upper explosion limits	
Lower:	No information available.
Upper:	No information available.
Flash point:	Not applicable.
Decomposition temperature:	No information available.
pH value:	Not applicable.
Viscosity:	
Kinematic viscosity	Not applicable.
Dynamic:	Not applicable.
Solubility	
Water:	Insoluble.

Partition coefficient n-octanol/water (log-W)	No information available

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Vapour pressure:	Not applicable.
Density and/or relative density	
Density:	No information available.
Vapour density	Not applicable.

9.2. Other information

Appearance:	
Shape:	Firm
Important information on health and	
Environmental protection and safety	
Ignition temperature:	130 °C
Explosive properties:	No information available.
Change of state	
Softening point or range	
Oxidising properties:	No information available.
Evaporation rate	Not applicable.
Information on physical hazard classes	
Explosive substances/mixtures and articles containing	
Explosive	Not applicable
Flammable gases	Not applicable
Aerosols	Not applicable
Oxidising gases	Not applicable
Gases under pressure	Not applicable
Flammable liquids	Not applicable
Flammable solids	Not applicable
Self-reactive substances and mixtures	Not applicable
Pyrophoric liquids	Not applicable
Pyrophoric solids	Not applicable
Self-heating substances and mixtures	Not applicable
Substances and mixtures that come into contact with water	
develop flammable gases	Not applicable
Oxidising liquids	Not applicable
Oxidising solids	Not applicable
Organic peroxides	Not applicable
Substances corrosive to metals	
and mixtures	Not applicable
Desensitised substances/mixtures and	
Products with explosives	Not applicable

Temperature range (ambient in °C)

Cell type	Permanent	Temporary
Steel housing	- 40 to +50	- 50 to +85
Plastic housing	- 40 to +50	- 50 to +70

Specific energy:
10 - 27 Wh/kg
Wh: Nominal voltage x nominal capacity in Ah as defined in the IEC standard
kg: average weight of the cell in kg

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Specific immediate performance:
20 - 97 W/kg
W= 0.5 x nominal voltage x Is (Is = discharge current over one second up to half the nominal voltage)
kg: average weight of the cell in kg

Mechanical resistance:
As defined in the IEC standard.

10. Stability and reactivity:

10.1. Reactivity
No hazardous reactions are to be expected if stored and used as directed.

10.2. Chemical stability
No decomposition if stored and handled as directed.
Do not fill or bring cells into contact with acids or electrolyte from lead batteries.

10.3. Possibility of hazardous reactions
Nickel compounds, cadmium compounds, corrosive vapours in case of fire
Temperatures above 85 °C, short circuits in cells, deformation of cells

10.4. Conditions to avoid
Keep away from heat, hot surfaces, sparks, open flames, and other sources of ignition. No smoking.
Do not expose the rechargeable battery to mechanical shocks.
Do not dismantle, crush, short-circuit, or connect with incorrect polarity. Avoid mechanical or electrical abuse.

10.5. Incompatible materials:
Strong oxidising agents
Strong acids

10.6. Hazardous decomposition products:
In the event of a fire:
Nickel compounds, cadmium compounds, corrosive vapours in case of fire
See section 5.

11. Toxicological information:

11.1. Information on hazard classes in accordance with Regulation (EC) No 1272/2008

Inhalation:
No probable route of exposure of the product itself. Inhaling substances that have leaked from damaged batteries may harm the respiratory tract and organs at prolonged or repeated exposure.

Skin contact:
Contact with the undamaged battery does not constitute any hazard.
Skin contact with damaged batteries may lead to chemical burns.

Eye contact:
Contact with the undamaged battery does not constitute any hazard.
Eye contact with leaked ingredients from the damaged battery can lead to chemical burns.

Ingestion:
No probable route of exposure of the product itself.

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Swallowing spilled ingredients can cause burns to the oesophagus and stomach. Toxic if swallowed.
The product is declared as an article and is not subject to the provisions of classification and labelling in accordance with CLP.

Acute toxicity
The classification criteria are not met based on available data.

Substance	Number	Oral LD50 Rat	Dermal LD50 Rat	Inhalation LC50 Rat
Nickel	7440-02-0	> 9000 mg/kg		
Nickel hydroxide	12054-48-7	1520 mg/kg	> 2000 mg/kg	1.2 mg/l/4h
Cadmium	7440-43-9	2330 mg/kg		0.0008 - 0.066 mg/l/4h
Cadmium oxide	21041-95-2	72 mg/kg		
Potassium hydroxide	1310-58-3	273 mg/kg		
Lithium hydroxide	1310-66-3	210 mg/kg		

Corrosive/irritant effect on the skin
The electrolyte contained in the cell or battery is classified as a corrosive liquid and causes skin burns.
Serious eye damage/irritation
The electrolyte contained in the cell or battery is classified as a corrosive liquid and causes serious eye damage.
Sensitisation of the respiratory tract/skin
The electrolyte used in the cell or battery contains sensitising substances.
Germ cell mutagenicity
Not applicable/not met
Carcinogenicity
The electrolyte used in the cell or battery contains cadmium, nickel, and cobalt compounds.
Reproductive toxicity
The electrolyte used in the cell or battery contains cadmium, nickel, and cobalt compounds.
Specific target organ toxicity at single exposure
Not applicable/not met
Specific target organ toxicity with repeated exposure
The electrolyte used in the cell or battery contains cadmium, nickel, and cobalt compounds.
Aspiration hazard
Not applicable/not met

Other information: The undamaged battery poses no danger.

11.2. Information on other hazards
No known endocrine disrupting properties

12. Environmental information

12.1. Toxicity information on potassium hydroxide CAS: 1310-58-3

LC50 (96 h) 80 mg/l (fish) (Gambusia affinis)

12.2. Information on elimination (persistence and degradability):
Potassium hydroxide is broken down by reaction with carbon dioxide in the air.
12.3. Behaviour in environmental compartments:
Potassium hydroxide is soluble in water. Low potential for bioaccumulation. Mobility in soil: high
Liquid with low volatility.
12.4. Ecotoxic effect:
May damage vegetation.

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12.5. Aquatic toxicity:

Harmful to fish

pH values of ≥ 10.5 may have lethal effects on fish and other aquatic organisms.
Causes severe damage to aquatic plants.
High concentrations have serious harmful effects on sewage treatment plants.

12.6. Endocrine disrupting properties

The product does not contain any substances with endocrine-disrupting properties.

12.7. General information:

Do not allow to enter water, sewage, or soil.
Water hazard class 3 (self-classification): highly hazardous to water
Possible hazard to drinking water

13. Disposal and treatment considerations:

13.1. Waste disposal

Never burn NiCd cells
Never throw NiCd cells in the rubbish.
Never dispose of in a landfill.
The currently valid international waste code is 16 06 02*

Cd

13.2. Reprocessing

End-of-life Ni-Cd cells/batteries are recyclable assets and must be recycled.
In Europe, recycling management must be performed in accordance with REGULATION (EU) 2023/1542 and its implementation in the individual Member States of the European Union.

Please contact the GAZ representative.

*hazardous waste

14. Transport information:

- **Land transport ADR / RID and GGVS / GGVE (cross-border / domestic):** Not subject to the regulations, see Special Provision 598, Chapter 3.3.
  ADR / RID – GGVS / E class:
  Digit / letter:
  Kemler number:
  UN number:
  Designation of the property:

- **Sea transport IMDG / GGVSee:**
  IMDG / GGVSee class: 8
  UN number: 2795
  Packing group:
  EMS number: F–A, S-B
  Proper technical name: NiCd rechargeable battery (wet, filled with potash)

- **Air transport ICAO – TI and IATA – DGR:**
  ICAO / IATA class: 8
  UN /ID number: 2795 (Batteries, wet, filled with alkali**)**
  Packing group:
  Proper technical name: NiCd rechargeable battery (wet, filled with potash)

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15. Legislation:

15.1. Regulations on safety, health, and environmental protection/specific legislation for the substance or mixture
Labelling in accordance with Regulation (EC) No 1272/2008

The product is a product in accordance with REACH and accordingly not subject to classification and labelling in accordance with CLP Regulation (EC) No 1272/2008.
There is no obligation to compile safety data sheets for products.
This information on the safe handling of NiCd cells/batteries describes the safety requirements and is based on the safety data sheet in accordance with REACH Regulation (EC) No. 1907/2006.

Directive 2012/18/EU
Named dangerous substances - ANNEX I None of the ingredients are included.
REGULATION (EC) No 1907/2006 ANNEX XVII Restriction conditions: 23, 27, 72

Regulation **(EU) No 649/2012**

CAS: 1306-19-0 Cadmium oxide (stabilised) Annex I Part 1
CAS: 7440-43-9 Cadmium (stabilised) Annex I Part 1

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment

CAS: 7440-43-9 Cadmium (stabilised) Annex II

REGULATION (EU) 2019/1148

None of the ingredients are included.

Regulation (EC) No 273/2004 Drug precursors and Regulation (EC) No 111/2005 Monitoring trade in drug substitutes

None of the ingredients are included.

Other regulations, restrictions, and prohibitions

Substances of Very High Concern (SVHC) in accordance with REACH, Article 57

CAS: 1306-19-0 Cadmium oxide (stabilised)
CAS: 7440-43-9 Cadmium (stabilised)

15.2. Chemical safety assessment: No chemical safety assessment was performed.

In accordance with the German Battery Act, rechargeable batteries must be labelled with a crossed-out dustbin and the chemical symbol underneath. The ISO take-back/recycling symbol must also be affixed next to it.

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16. Other information:

The above information is based on our current state of knowledge but does not constitute a guarantee of product properties and does not establish a contractual legal relationship.
Existing laws and regulations are to be observed under the product recipient's own responsibility.

Hazard warnings:

H314 Causes severe skin burns and eye damage.
H302 Harmful if swallowed.

Precautionary measures:

P102 Keep out of reach of children.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
No smoking.

P305+P315
P351 IF IN EYES: Rinse continuously with water for several minutes.
Get medical advice / attention at once.

P309+P315 IF EXPOSED OR YOU FEEL UNWELL: Get medical advice / attention at once.

Training instructions

Regular instruction of employees involved in the transport of dangerous goods (in accordance with chapter 1.3 ADR).