

Conrad Electronic SE, Klaus-Conrad-Str. 1, D-92240 Hirschau

Item no. 101123

Material Safety Data Sheet

1. Product & Company Identification:

| | |
|-----------------------|---|
| Product: | Potassium Chloride (KCl) |
| Manufacturer: | Conrad Electronic SE, Klaus-Conrad-Str. 1, D-92240 Hirschau |
| Telephone: | +49 (0) 9604 / 40 - 8988 |
| Date of issue: | 08.09.2014 |

Relevant identified uses of the substance or mixture and uses advised against:

Recommended Use: Laboratory chemicals

Uses advised against: No Information available

2. Hazards Identification:

Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Not hazardous

Classification according to EU Directives 67/548/EEC or 1999/45/EC

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16

R-phrases: none

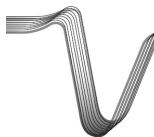
Label Elements: Signal Word / Hazard Statements: none

Other Hazards: No information available.

3. Composition / Information on Ingredients:

| Component | EC-No. | Weight % | CAS-No. | DSD Classification 67/548/EEC | CLP Classification Regulation (EC) No. 1272/2008 | REACH No. |
|--------------------|-----------|----------|-----------|-------------------------------|--|-----------|
| Potassium Chloride | 231-211-8 | >95 | 7447-40-7 | - | - | - |

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16



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4. First Aid Measures:

Description of first aid measures:

Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

Skin Contact

Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.

Ingestion

Do not induce vomiting. Obtain medical attention.

Inhalation

Move to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately if symptoms occur.

Notes to Physician

Treat symptomatically

5. Fire Fighting Measures:

Extinguishing media:

Suitable Extinguishing Media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Extinguishing media which must not be used for safety reasons

No information available.

Special hazards arising from the substance or mixture:

Thermal decomposition can lead to release of irritating gases and vapors

Advice for fire-fighters:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental Release Measures:

Personal precautions, protective equipment and emergency procedures

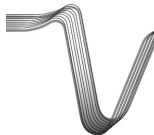
Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation.

Environmental precautions

Should not be released into the environment.

Methods and material for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.



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7. Handling and Storage:

Precautions for Safe Handling

Wear personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. Avoid dust formation.

Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place.

Specific End Uses

--

8. Exposure Controls / Personal Protection

Control parameters:

Exposure limits:

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Component:

Potassium Chloride

| | | | | |
|----------------------------|---------|---------|--------|----------------|
| Bulgaria | Croatia | Ireland | Cyprus | Czech Republic |
| TWA: 5.0 mg/m ³ | | | | |

| | | | | |
|--------------------------|--------------------------|------------|-------|---------|
| Latvia | Lithuania | Luxembourg | Malta | Romania |
| TWA: 5 mg/m ³ | TWA: 5 mg/m ³ | | | |

| | | | | |
|--------------------------|-----------------|----------|--------|--------|
| Russia | Slovak Republic | Slovenia | Sweden | Turkey |
| MAC: 5 mg/m ³ | | | | |

Biological limit values

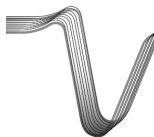
This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL)

No information available.

Predicted No Effect Concentration (PNEC)

No information available.



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Exposure controls:

Engineering Measures

Ensure that eyewash stations and safety showers are close to the workstation location Ensure adequate ventilation, especially in confined areas

Personal protective equipment

Eye Protection

Safety glasses with side-shields

Hand Protection

Protective gloves

Skin and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure

Respiratory Protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced

Hygiene Measures

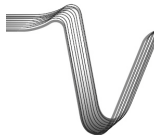
Handle in accordance with good industrial hygiene and safety practice

Environmental exposure controls

No information available.

9. Physical and Chemical Properties:

| | |
|--------------------------|---------------------------|
| Physical State | Solid |
| Appearance | White |
| Odor | Odorless |
| pH | No information available. |
| Boiling Point/Range | 1420°C / 2588°F@ 760 mmHg |
| Melting Point/Range | 770°C / 1418°F |
| Flash Point | No information available. |
| Autoignition Temperature | No information available. |
| Water Solubility | 340 g/l (20°C) |
| Specific Gravity | 1.987 |
| Molecular Formula | Cl K |
| Molecular Weight | 74.54 |



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10. Stability and Reactivity:

Reactivity

Chemical Stability

Hygroscopic.

Possibility of Hazardous Reactions

Hazardous Polymerization: Hazardous polymerization does not occur.

Hazardous Reactions: None under normal processing..

Conditions to Avoid

Incompatible products, Excess heat, Avoid dust formation, Exposure to moist air or water.

Incompatible Materials

Strong oxidizing agents.

Hazardous Decomposition Products

Hydrogen chloride gas.

11. Toxicological Information:

Information on Toxicological Effects

Acute Toxicity

Component Information

Potassium Chloride

| LD50 Oral | LD50 Dermal | LC50 Inhalation |
|------------------|-------------|-----------------|
| 2600 mg/kg (Rat) | | |

Chronic Toxicity

Carcinogenicity: There are no known carcinogenic chemicals in this product

Sensitization: No information available.

Mutagenic Effects: No information available

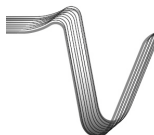
Reproductive Effects: No information available.

Developmental Effects: No information available.

Target Organs: None known.

Other Adverse Effects: See actual entry in RTECS for complete information The toxicological properties have not been fully investigated.

Endocrine Disruptor Information: None known



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12. Ecological Information:

Toxicity

Ecotoxicity effects

| Component | Freshwater Algae | Freshwater Fish | Microtox | Water Flea |
|--------------------|---------------------|--|----------|--------------------|
| Potassium chloride | EC50: 2500 mg/L/72h | 750-1020 mg/L LC50 96 h 1060 mg/L LC50 96 h | | EC50: 825 mg/L/48h |

Persistence and degradability

No information available

Bioaccumulative potential

No information available.

Mobility in soil

No information available.

Results of PBT and vPvB assessment

Other adverse effects

No information available

13. Disposal Considerations:

Waste treatment methods

Waste from Residues / Unused Products:

Dispose of in accordance with local regulations

Contaminated Packaging:

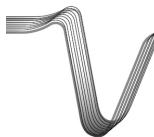
Empty containers should be taken to local recyclers for disposal

14. Transport Information:

IMDG/IMO: Not regulated

ADR: Not regulated

IATA: Not regulated



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15. Regulatory Information:

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

WGK Classification Hazardous to water/Class 1

International Inventories

| Component | EINECS | ELINCS | NLP | TSCA | DSL | NDSL | PICCS | ENCS | CHINA | AICS | KECL |
|--------------------|-----------|--------|-----|------|-----|------|-------|------|-------|------|------|
| Potassium Chloride | 231-211-8 | - | | X | X | - | X | X | X | X | X |

Legend

| | |
|----------------------------|---|
| TSCA | United States Toxic Substances Control Act Section 8(b) Inventory |
| EINECS/ELINCS | European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances |
| DSL/NDSL | Canadian Domestic Substances List/Non-Domestic Substances List |
| PICCS | Philippines Inventory of Chemicals and Chemical Substances |
| ENCS | Japan Existing and New Chemical Substances |
| IECSC | China Inventory of Existing Chemical Substances |
| AICS | Australian Inventory of Chemical Substances |
| KECL | Existing and Evaluated Chemical Substances |
| Chemical Safety Assessment | |

16. Other Information:

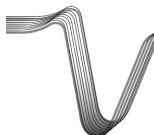
Full text of R-phrases referred to under sections 2 and 3

No information available.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.



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1. Product & Company Identification:

| | |
|-----------------------|---|
| Product: | Buffer Solution pH 7.00 ±0.01 |
| Manufacturer: | Conrad Electronic SE, Klaus-Conrad-Str. 1, D-92240 Hirschau |
| Telephone: | +49 (0) 9604 / 40 - 8988 |
| Date of issue: | 08.09.2014 |

Chemical Name: pH buffer
Chemical Formula: Not applicable
Chemical Family: Not applicable
Hazard: Practically non-toxic.

2. Composition / Information on Ingredients:

Potassium Phosphate, Monobasic

Percent Range: < 1.0
Percent Range Units: weight / weight
Hazard: May cause irritation.

Demineralized Water

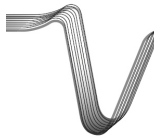
Percent Range: >95.0
Percent Range Units: volume / volume
Hazard: No effects anticipated.

Other components, each

Percent Range: < 1.0
Percent Range Units: volume / volume
Hazard: Any ingredient(s) of this product listed as "Other component(s)" is not considered a health hazard to the user of this product.

Sodium Phosphate, Dibasic

Percent Range: < 1.0
Percent Range Units: weight / weight
Hazard: May cause irritation.



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3. Hazards Identification:

Emergency Overview:

Appearance: yellow and clear liquid

Odor: No

Potential Health Effects:

Eye Contact: No effects anticipated

Skin Contact: No effects anticipated

Medical Conditions Aggravated: None reported

Chronic Effects: No effects anticipated

4. First Aid:

Eye Contact: Flush eyes with water. Call physician if irritation develops.

Skin Contact (First Aid): Wash skin with plenty of water.

Ingestion (First Aid): Give large quantities of water. Call physician immediately.

Inhalation: None required.

5. Fire Fighting Measures:

Flammable Properties: Material will not burn.

Flash Point: Not applicable

Method: Not applicable

Flammability Limits: Lower Explosion Limits: Not applicable

Upper Explosion Limits: Not applicable

Autoignition Temperature: Not applicable

Hazardous Combustion Products: None reported

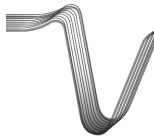
Fire / Explosion Hazards: None reported

Static Discharge: None reported.

Mechanical Impact: None reported

Extinguishing Media: Use media appropriate to surrounding fire conditions

Fire Fighting Instruction: As in any fire, wear self-contained breathing apparatus pressure-demand and full protective gear.



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6. Accidental Release Measures:

Containment Technique:

Stop all leaks. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Absorb spill with inert material (e.g. dry sand, earth).

Clean-up Technique:

Absorb spilled liquid with non-reactive sorbent material. Place material in a plastic bag. Mark bag 'Non-hazardous trash', and dispose of as normal refuse.

7. Handling / Storage:

Handling: Avoid contact with eyes Wash thoroughly after handling.

Storage: Protect from heat

Keep container tightly closed when not in use.

Flammability Class: Not applicable

8. Exposure Controls / Protective Equipment:

Engineering Controls: Maintain general industrial hygiene practices when using this product.

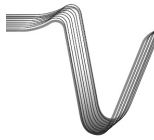
Personal Protective Equipment:

Eye Protection: safety glasses with top and side shields

Skin Protection: Not applicable

Inhalation Protection: adequate ventilation

Precautionary Measures: Avoid contact with: eyes Wash thoroughly after handling.



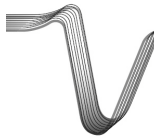
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9. Physical / Chemical Properties:

| | |
|-------------------------------|--|
| Appearance: | Yellow and clear, liquid |
| Physical State: | Liquid |
| Molecular Weight: | Not applicable |
| Odor: | None |
| pH: | 7.0 at 25°C |
| Vapor Pressure: | Not determined |
| Vapor Density (air = 1): | Not determined |
| Boiling Point: | ~100°C (~212°F) |
| Melting Point: | ~0°C (~32°F) |
| Specific Gravity (water = 1): | ~1.0 |
| Solubility: | Water: Soluble Acid: Soluble Other: Not determined |
| Metal Corrosivity: | Not determined |

10. Stability / Reactivity:

| | |
|-------------------------------|---|
| Chemical Stability: | Stable (be stored under proper conditions). |
| Conditions to Avoid: | Heat Evaporation |
| Reactivity / Incompatibility: | None reported |
| Hazardous Decomposition: | None reported |



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11. Toxicological Information:

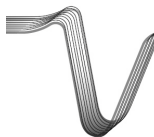
| | |
|--------------------------------|--|
| Product | Toxicological |
| Data: LD50: | None reported |
| LC50: | None reported |
| Dermal Toxicity Data: | None reported |
| Skin and Eye Irritation Data: | None reported |
| Mutation Data: | None reported |
| Reproductive Effects Data: | None reported |
| Ingredient Toxicological Data: | No toxicological data available for the ingredients of this product. |

12. Ecological Information:

| | |
|------------------------------------|---|
| Product Ecological Information: | No ecological data available for this product. |
| Ingredient Ecological Information: | No ecological data available for the ingredients of this product. |

13. Disposal Considerations:

| | |
|----------------------------------|--|
| EPA Waste ID Number: | None |
| Special Instructions (Disposal): | Open cold water tap completely, slowly pour the material to the drain. |
| Empty Containers: | Rinse three times with an appropriate solvent. Dispose of empty container as normal trash. |
| NOTICE (Disposal): | These disposal guidelines are based on federal regulations and may be superseded by more stringent state or local requirements. Please consult your local environmental regulators for more information. |



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14. Transport Information:

D.O.T.:

D.O.T. Proper Shipping Name: Not Currently Regulated
DOT Hazard Class: NA
DOT Subsidiary Risk: NA
DOT ID Number: NA
DOT Packing Group: NA

I.C.A.O.:

I.C.A.O. Proper Shipping Name: Not Currently Regulated
ICAO Hazard Class: NA
ICAO Subsidiary Risk: NA
ICAO ID Number: NA

I.M.O.:

I.M.O. Proper Shipping Name: Not Currently Regulated
I.M.O. Hazard Class: NA
I.M.O. Subsidiary Risk: NA
I.M.O. ID Number: NA
I.M.O. Packing Group: NA

15. Regulatory Information:

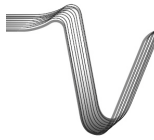
U.S. Federal Regulations:

O.S.H.A.: This product does not meet the criteria for a hazardous substance as defined in the Hazard Communication Standard. (29 CFR 1910.1200)

E.P.A.:

S.A.R.A. Title III Section 311/312 Categorization (40 CFR 370): This product is not hazardous under 29 CFR.1910.1200 and therefore is not covered by Title III under SARA.

S.A.R.A. Title III Section 313 (40 CFR 372): This product does NOT contain any chemical subject to the reporting requirements of Section 313 of Title III of SARA.



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16. Other Information:

Intended Use:

Buffer

References:

29 CFR 1900 - 1910 (Code of Federal Regulations - Labor). Air Contaminants, Federal Register, Vol. 54, No. 12. Thursday, January 19, 1989. pp. 2332-2983. TLV's Threshold Limit Values and Biological Exposure Indices for

Legend:

NA - Not Applicable w/w -weight/weight

ND - Not Determined w/v -weight/volume

NV - Not Available v/v - volume/volume

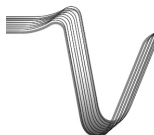
USER RESPONSIBILITY:

Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

This information was compiled from current manufacturer's MSDS's of the component parts of the product.

Disclaimer: The Manufacturer believes that the information contained in the Material Safety Data Sheet is accurate. The suggested procedures are based on experience as of the date of publication. They are not necessarily all inclusive nor fully adequate in every circumstance. Also, the suggestions should not be confused with, nor followed in violation of applicable laws, regulations, rules or insurance requirements.

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED TO BE ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.



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Material Safety Data Sheet

1. Product & Company Identification:

| | |
|-------------------------|---|
| Product: | Carbon Zinc Battery |
| Manufacturer: | Conrad Electronic SE. Klaus-Conrad-Str. 1, D-92240 Hirschau |
| Model: | 6F22UGG / 6F22KGG / 6F22SGG / 6F22 (UB) |
| Nominal voltage: | 9 V |
| Telephone: | +49 (0) 9604 / 40 - 8988 |
| Date of issue: | 08.09.2014 |

These products are exempted from Material Safety data Sheet regulations. However, this manual provides you with referential information to safely use the products.

2. Composition, Information on Ingredients:

| Material | CAS No. | Weight/Content |
|--------------------------------------|-----------|--------------------|
| Manganese dioxide : MnO ₂ | 1313-13-9 | 28 - 30 wt% |
| *1 Zinc Chloride : ZnCl ₂ | 7546-85-7 | 2 - 6.5 wt% |
| Zinc Metal : Zn | 7440-66-6 | 8 - 11 wt% |
| Lead : Pb | 7439-92-1 | Less than 0.01 wt% |

*1 : Categorize to Class 8 of the UN classification UN No.1840

3. Summary of Danger and Toxicity:

Fatal danger and toxicity:

No information available

Adverse human health effects:

When electrolyte touches skin, itch may occur.

Physical and chemical hazard:

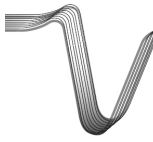
There is the risk of explosion if batteries are disposed in fire, heated above 100°C. Stacking or jumbling batteries may cause external short circuits, heat generation and explosion.

Effects to environment:

No information is available.

Overview of prospective emergency:

A cell may break or be shorted by an external mechanical or electrical stress



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4. First aid:

If inhaled:

If a person inhales the vapor of contents because a cell breaks down, moves the person immediately to a place with fresh air. If he/her feels ill, immediately call a doctor for therapy and treatment.

If adhered to skin:

If a content adheres to skin because a battery is damaged, immediately wash it with a lot of clean water. If irritating, consult a doctor.

If getting into eyes:

If a content enters eyes because of breakage of a cell, rinse eyes with a large amount of clean water for more than 15 minutes, and ask a doctor for therapy and treatment.

If swallowed:

Immediately bring the victim to a doctor for treatment.

If liquid leaked from a cell is licked:

Immediately gargle, and visit a doctor for therapy.

5. Fire Fighting:

Fire extinguishers:

Dry chemical extinguisher, carbon dioxide gas extinguisher, large amount of dry sand, and big deal of water.

Specific fire fighting method:

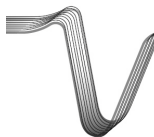
In the initial state of a fire, move cells/batteries from near the fire source, to a safe location. At that time, work at a windward location, as far as possible, and be sure to put on a protective breathing mask.

Protection of fire fighting personnel:

Be sure to have them wear protective breathing masks (Preferably, use a self-feeding type mask.)

6. Action upon Leakage and Removing Method:

A cell contains constituents in a vessel, so contents normally may not leak out. However, if a content leaks because of a mechanical or electrical stress, wipe with mop or damp sponge to absorb it, and collect in a vessel. After that, flush the site with a large amount of water. At that time, be sure to put on protective-gloves, glasses and mask. Prevent spills from entering sewers, watercourses.



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7. Handling and Storing Precautions:

Handling:

This cell is not for rechargeable. If the battery is improperly used, it may leak, heat or explode.

Protection of personnel from exposure:

Never solder a cell.

Safety precautions for handling:

Do not contact battery terminals between each other, or with another conductor. Neither throw into fire, decompose, heat, dent, deform, charge nor drop a cell. Do not dip a cell in water or seawater.

Storage:

Store cells without direct sunlight, high temperature, high humidity, rain, dew, etc., and select a storage location with a temperature as low as possible (preferable temperature $20\pm 15^{\circ}\text{C}$ and relative humidity 70% or less). In addition, keep cells away from dangerous matter such as combustible or ignitable materials. Absolutely never place a cell in contact with a combustible or conductive substance. Prepare appropriate firefighting equipment.

Note:

See handling and storing precautions described in the product catalog, specification, etc.

8. Prevention from Exposure:

Protection of respiratory organs:

Not required in a normal operating state

Protection of eyes:

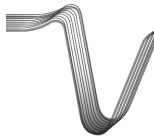
Not required in a normal operating state

Other protective tools etc.:

Not required in a normal operating state

9. Physical and Chemical Properties:

| | |
|-----------------------------------|--|
| Shape: | Cylindrical. |
| PH: | Not applicable because a cell is not soluble with water. |
| Boiling point/boiling range (°C): | No information |
| Melting point (°C): | No information |
| Decomposition temperature (°C): | No information |
| Flash point (°C): | No information |



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10. Stability and Reactivity:

Conditions to be avoided:

If a number of cells are mixed up without insulating terminals, they may short and possibly heat, break and ignite. When a battery is charged, it may possibly burst or fire. If a cell is heated or thrown into fire, it may explode or fire with the electrolyte etc. bursting from inside of the cell. If decomposed, there is a possibility of overheating or fire due to short circuit.

11. Information on Toxicity

There is no toxicity because chemical substances are sealed in a metal vessel or wrapped with tube. As a reference, chemical substances composing a cell are described below.

Manganese dioxide

Acute toxicity: LDLo: 45 mg/kg (Intravenous injection, rabbit)

LD : 422 mg/kg (Hypodermic injection, mouse)

Irritation: Irritating eyes, nose, throat and skin.

Chronic toxicity: If a person is exposed to powder for a long time or repeatedly, the lung and the nervous system may be affected, possibly causing bronchitis, pneumonia, nervous disease or mental disease.

Procreation toxicity: TCLo: 49 mg/m³ (Inhalation, mouse)

Zinc Chloride

Acute toxicity: TCL0 : LD5o 4800 mg/m³ (30min.)

LD50: 350 mg/kg (oral, rat)

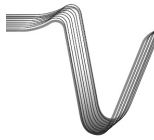
12. Ecological Information:

No information as a cell.

13. Disposal Precautions:

Disposal of the substance should be done according to the laws and regulations. Although used cells can be discarded basically as "nonflammable refuse," some local governments sort and collect them at their own discretion. Therefore, observe instructions of the government you belong to, to dispose of the substance. Keep the following discarding precautions:

- Even a used cell sometimes stores electric energy. Therefore, to prevent the cell from short-circuit, isolate cells from each other by a method such as taping +, - terminals of batteries, or using the individual housing case of a battery, used when you bought the battery, and orderly encasing cells in a box, then submit an application of disposal to the local government of your residence, using the designated form.
- Pack cells so that they are not shorted, and prevent the package from being wetted.
- If cells must be discarded in a country other than Japan, observe the instructions of the country and local government.



Material Safety Data Sheet

14. Transportation Precautions:

Avoid high temperature, high humidity and condensation. Store cells at room temperature (45°C or less: recommendation is 20°C±15°C) with minimum temperature variations and a RH of not more than 70%. Carefully handle containers, and do not strike them so strongly as denting a cell. Pack batteries and prevent them from short-circuit. Also fix cells so as not to result in a load shift during transportation.

15. Applicable Laws and Regulations:

There are no special laws and regulations applied to cells.

A dangerous object does not regulate.

16. Other Information:

1. Contents of this manual have been edited based on data, information, etc. that we could acquire when editing the manual, so the manual may be revised by new information, if any. Contents of the manual assume normal handling of cells, and are provided as referential information. Therefore, the manual provides no warranties. The customer is requested to use batteries on the basis of appropriate measures established depending on individual conditions, application and operation. Any numerals such as contents and concentration ranges and others are not guaranteed.
2. Information on the U.S. toxic substance control act (TSCA) The Carbon Zinc battery (cell) fall in the category of "Article" defined by EPA (U.S. Environment Protection Agency), and chemical substances used in a battery satisfy the application exemption conditions (40.cfr.720.3.c) as part of "Article," so the cells are not regulated by TSCA.