

SAFETY DATA SHEET

ALKALINE PRIMARY BATTERY

Infosafe No.: LQ4PF
ISSUED Date : 18/08/2020
ISSUED by: HOSPECO PTY LTD

1. IDENTIFICATION

GHS Product Identifier

ALKALINE PRIMARY BATTERY

Company Name

HOSPECO PTY LTD

Address

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Emergency phone number

1800 638 556

Recommended use of the chemical and restrictions on use

Battery.

2. HAZARD IDENTIFICATION

GHS classification of the substance/mixture

Not classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) including Work, Health and Safety Regulations, Australia.

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Information on Composition

Sealed unit containing the following ingredients: Manganese dioxide, Potassium hydroxide, Zinc, Zinc oxide, Graphite and Steel.

Ingredients

| Name | CAS | Proportion |
|--|-----------|------------|
| manganese dioxide | 1313-13-9 | 25-45 % |
| Iron | 7439-89-6 | 10-30 % |
| Zinc | 7440-66-6 | 10-20 % |
| Potassium Hydroxide | 1310-58-3 | 3-9 % |
| Graphite | 7782-42-5 | 1-4 % |
| Zinc oxide | 1314-13-2 | 0-1 % |
| Ingredients determined not to be hazardous | | Balance |

4. FIRST-AID MEASURES

Inhalation

Not considered a potential route of exposure for intact product, when used as intended. However, if the sealed unit is damaged and exposure occurs, remove affected person from contaminated area. Apply artificial respiration if not breathing. Seek medical attention.

Ingestion

Not considered a potential route of exposure for intact product, when used as intended. However, if ingested, do not induce vomiting. Wash out mouth thoroughly with water. Seek immediate medical attention.

Skin

Not considered a potential route of exposure for intact product, when used as intended.

If the sealed unit is damaged and exposure occurs: Remove all contaminated clothing immediately. Wash gently and thoroughly with water and non-abrasive soap for 15 minutes. Ensure contaminated clothing is washed before re-use or discard. Seek immediate medical attention.

Eye contact

Not considered a potential route of exposure for intact product, when used as intended. If the sealed unit is damaged and exposure occurs: If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Seek immediate medical attention.

First Aid Facilities

Eye wash fountain and normal washroom facilities.

Advice to Doctor

Treat symptomatically

Other Information

For advice in an emergency, contact a Poisons Information Centre (Phone Australia 131 126) or a doctor at once.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use appropriate fire extinguisher for surrounding environment.

Hazards from Combustion Products

Under fire conditions this product may emit toxic and/or irritating fumes and gases including oxides of manganese and zinc.

Specific Hazards Arising From The Chemical

Bursting batteries can be forcibly projected from a fire. Danger of electric shock during fire-fighting of batteries.

Decomposition Temperature

Not available

Precautions in connection with Fire

Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) operated in positive pressure mode and full protective clothing to prevent exposure to vapours or fumes. Water spray may be used to cool down heat-exposed containers. Fight fire from safe location. This product should be prevented from entering drains and watercourses.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures

Wear appropriate personal protective equipment and clothing to prevent exposure. Collect the material and place into a suitable labelled container. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Protect sealed unit from damage. Keep away from all sources of ignition. Do not dismantle batteries. Ensure a high level of personal hygiene is maintained when using this product, that is, always wash hands after handling, and before eating, drinking, smoking or using the toilet facilities.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well-ventilated area away from sources of ignition, direct sunlight, strong oxidising agents and strong acids/bases. Keep out of reach of children. Elevated temperatures can result in shortened battery life. Protect against physical damage. Inspect regularly for deficiencies such as damage or leaks. Have appropriate fire extinguishers available in and near the storage area. Store in original packages as approved by manufacturer. Ensure that storage conditions comply with applicable local and national regulations.

Storage Temperatures

Store above freezing and <93°C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit values

No exposure standards have been established for the mixture. However, over-exposure to some chemicals may result in enhancement of pre-existing adverse medical conditions and/or allergic reactions and should be kept to the least possible levels.

Biological Limit Values

No biological limits allocated.

Appropriate Engineering Controls

None required, when used as intended. Where exposure to battery content is possible: Use with good general ventilation. If dust is produced, local exhaust ventilation should be used.

Respiratory Protection

None required, when used as intended. Where exposure to battery content is possible: If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable dust/particulate filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements.

Eye Protection

None required, when used as intended. Where exposure to battery content is possible: Safety glasses with side shields or chemical goggles should be worn. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 (series) - Eye Protectors for Industrial Applications..

Hand Protection

Wear gloves of impervious material. Rubber gloves suggested for repeated or prolonged product use. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

Body Protection

None required, when used as intended. Where exposure to battery content is possible: Suitable protective work wear, e.g. cotton overalls buttoned at neck and wrist is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

| Properties | Description | Properties | Description |
|---------------------------|-------------------|--|--|
| Form | Article - Battery | Appearance | Encased cylindrical or rectangular shape article |
| Colour | Not available | Odour | Odourless |
| Decomposition Temperature | Not available | Melting Point | Not available |
| Boiling Point | Not available | Solubility in Water | Not applicable |
| Specific Gravity | Not applicable | pH | Not applicable |
| Vapour Pressure | Not applicable | Vapour Density (Air=1) | Not applicable |
| Evaporation Rate | Not applicable | Odour Threshold | Not applicable |
| Viscosity | Not applicable | Partition Coefficient: n-octanol/water | Not applicable |
| Flash Point | Not applicable | Flammability | Non-flammable |
| Auto-Ignition Temperature | Not applicable | Flammable Limits - Lower | Not applicable |
| Flammable Limits - Upper | Not applicable | Explosion Limit - Upper | Not applicable |
| Explosion Limit - Lower | Not applicable | | |

10. STABILITY AND REACTIVITY

Reactivity

Not available

Chemical Stability

Stable under normal conditions of use.

Conditions to Avoid

Heat, physical damage.

Incompatible materials

Strong acids/bases.

Hazardous Decomposition Products

Thermal decomposition may result in the release of toxic and/or irritating fumes and gases including oxides of manganese and zinc.

Possibility of hazardous reactions

When cell is exposed to an external short-circuit, it will cause heat generation and ignition. Reactions of the electrolyte and the electrodes with water and humidity possible. May rupture violently when heated or when charged.

Hazardous Polymerization

Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information

No toxicity data available for this product.

Ingestion

If damaged, swallowing of the contents of this product can be harmful or irritating to the gastric tract causing nausea and vomiting.

Inhalation

Exposure not expected for intact product. Inhalation of vapours/dust from an open battery may cause irritation of the respiratory system.

Skin

Exposure not expected for intact product. Contents of an open battery can be irritating or corrosive to skin. The symptoms may include redness, itching, swelling or burns.

Eye

Exposure not expected for intact product. Contents of an open battery can be severely irritating or corrosive to eyes. The symptoms may include redness, itching, blurred vision, tearing or burns.

Respiratory sensitisation

Not expected to be a respiratory sensitiser.

Skin Sensitisation

Not expected to be a skin sensitiser.

Germ cell mutagenicity

Not considered to be a mutagenic hazard.

Carcinogenicity

Not considered to be a carcinogenic hazard.

Reproductive Toxicity

Not considered to be toxic to reproduction.

STOT-single exposure

Not expected to cause toxicity to a specific target organ.

STOT-repeated exposure

Not expected to cause toxicity to a specific target organ through repeated or prolonged exposure.

Aspiration Hazard

Not expected to be an aspiration hazard.

12. ECOLOGICAL INFORMATION

Ecotoxicity

No ecological data are available for this material.

Persistence and degradability

Not available

Mobility

Not available

Bioaccumulative Potential

Not available

Other Adverse Effects

Not available

Environmental Protection

Prevent this material entering waterways, drains and sewers.

13. DISPOSAL CONSIDERATIONS

Disposal considerations

The disposal of the spilled or waste material must be done in accordance with applicable local and national regulations. Return whole scrap batteries to the distributor, manufacturer or a licensed battery recycler.

14. TRANSPORT INFORMATION

Transport Information

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport

by sea.

U.N. Number

None Allocated

UN proper shipping name

None Allocated

Transport hazard class(es)

None Allocated

IMDG Marine pollutant

No

Transport in Bulk

Not available

Special Precautions for User

Not available

15. REGULATORY INFORMATION

Regulatory information

Not classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) including Work, Health and Safety Regulations, Australia.

Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Poisons Schedule

Not Scheduled

16. OTHER INFORMATION

Date of preparation or last revision of SDS

SDS reviewed: August 2020 Supersedes: August 2015

References

Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.

Standard for the Uniform Scheduling of Medicines and Poisons.

Australian Code for the Transport of Dangerous Goods by Road & Rail.

Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.

Workplace exposure standards for airborne contaminants.

Adopted biological exposure determinants, American Conference of Industrial Hygienists (ACGIH).

Globally Harmonised System of Classification and Labelling of Chemicals.

Code of Practice: Managing Noise and Preventing Hearing Loss at Work.

END OF SDS

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