

1**IDENTIFICATION**

Supplier: Kimball Midwest
4800 Roberts Road
Columbus, OH 43228

Contact: Kimball Midwest
Phone: 800-233-1294
Product Number: 80-1178, 80-1179
Product Name: Recharge Battery Life Extender
Revision Date: 3/12/2015
Version: 1
CAS Number: Mixture
Product Use: Battery Life Extender
Emergency Phone: Chemtrec 800-424-9300

2**HAZARDS IDENTIFICATION**

GHS Signal Word: **Danger**



GHS Label Elements:

GHS Classifications:

Health:

Skin Sensitizer, Category 1
Respiratory Sensitization,
Germ Cell Mutagen, Category 1B
Reproductive Toxicity, Category 1B

Hazard Statements:

May cause an allergic skin reaction
May cause an allergy or asthma symptoms or breathing difficulties if inhaled.
May cause genetic defects
May cause cancer.
May damage fertility or the unborn child.

Precautionary

Statements:

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Avoid breathing mists or spray.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves and protective clothing.
In case of inadequate ventilation wear respiratory protection.
IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical attention. Take off contaminated clothing and wash it before reuse.
IF INHALED: remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms:
Call a POISON CENTER or doctor.

IF exposed or concerned: Call a POISON CENTER or doctor.

Store locked up.

Dispose of contents in accordance with local, regional and national regulations.

3**COMPOSITION / INFORMATION ON INGREDIENTS**

Ingredients

CAS #	Percentage	Chemical Name
10026-24-1	0.1-<1.0%	Cobalt Sulfate
10124-36-4	0.1-<1.0%	Cadmium Sulfate
Proprietary	Balance	Non-Hazardous Ingredients

4**FIRST AID MEASURES**

- Eyes:** Flush eyes with water, holding the eyelids apart for several minutes. Get medical attention if irritation develops or persists.
- Skin:** Wash thoroughly with plenty of soap and water. Get medical attention if irritation persists or rash develops.
- Inhalation:** Remove to fresh air and keep comfortable for breathing. If irritation or other symptoms occur, get medical attention. Seek immediate medical if breathing difficulties or asthma symptoms develop.
- Ingestion:** If large amounts ingested, seek medical attention.

Most Important symptoms and effects, both acute and delayed: May cause eye and skin irritation. Skin contact may cause an allergic reaction. Inhalation of sprays or mist may cause respiratory irritation and possibly an allergic reaction with asthma-like symptoms. May cause cancer, adverse effects on the DNA of reproductive cells and adverse reproductive effects. Risk of these effects depends on duration and level of exposure.

Indication of any immediate medical attention and special treatment needed: Seek immediate medical attention if breathing difficulties or asthma symptoms develop.

5**FIRE FIGHTING MEASURES**

Suitable and Unsuitable Extinguishing Media: Use any media that is suitable for the surrounding fire.

Special Hazards Arising from the Chemical: This product is not flammable or combustible. Thermal decomposition after the water has evaporated may produce sulfur and metal oxides.

Special Equipment and Precautions for Fire-Fighters: Wear NIOSH approved positive pressure, self-contained breathing apparatus and full protective clothing. Cool fire exposed containers with water.

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures: Wear appropriate personal protective equipment.

Environmental Hazards: Report spills and releases as required to appropriate authorities.

Methods and Material for Containment and Cleaning Up: Collect liquid spill with an inert absorbent material and place into a suitable container for disposal. Clean area thoroughly.

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 information on proper disposal.

7 HANDLING AND STORAGE

Precautions for Safe Handling: Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Do not breathe mists or sprays. Do not transfer to unlabeled containers. Wash hands and exposed skin thoroughly after handling. Remove and launder any contaminated clothing. Refer to OSHA 1910.1027 for specific regulations for cadmium compounds.

Conditions for Safe Storage, Including any Incompatibilities: Store in a clean, dry place. Avoid direct sunlight.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	Exposure Limits
Cobalt Sulfate	0.02 mg/m ³ TWA ACGIH TLV 0.1 mg/m ³ TWA OSHA PEL
Cadmium Sulfate	0.01 mg/m ³ (total), 0.002 mg/m ³ (respirable)TWA ACGIH TLV 0.005 mg/m ³ TWA OSHA PEL

Appropriate Engineering Controls: Use with adequate general or local exhaust ventilation to maintain exposure levels below the exposure limits.

Personal Protection Measures:

Respiratory Protection: In operations where the occupational exposure limits are exceeded, a NIOSH approved respirator with particulate filters or supplied air respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134, 1910.1027 and good industrial hygiene practice.

Skin Protection: Impervious gloves such as rubber or nitrile recommended.

Eye Protection: Safety goggles recommended where needed to avoid eye contact.

9	PHYSICAL AND CHEMICAL PROPERTIES
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Appearance	Pink liquid	Odor	No odor
Physical State	Liquid	Molecular Formula	Mixture
Odor Threshold	DNA	Solubility	Soluble in water
Particle Size	DNA	Softening Point	DNA
Spec Grav/Density	1.0	Percent Volatile	DNA
Viscosity	DNA	Heat Value	DNA
Sat. Vap Cone	DNA	Freezing/Melting Point	DNA
Boiling Point	115°C	Flash Point	None
Flammability	None	Octanol	DNA
Partition Coefficient	DNA	Vapor Density	Same as water
Vapor Pressure	DNA	VOC	0%
pH	9.22	Bulk Density	DNA
Evap rate	Same as water	Auto-Ignition Temp	None
Molecular Weight	DNA	UFL/LFL	DNA
Decomp Temp	DNA		

10	STABILITY AND REACTIVITY
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Reactivity: Not reactive under normal conditions of use.

Chemical Stability: Stable under normal storage and handling conditions.

Possibility of Hazardous Reactions: None known

Conditions to Avoid: None known

Incompatible Materials: None known.

Hazardous Decomposition Products: Thermal decomposition after the water has evaporated may produce sulfur and metal oxides.

11	TOXICOLOGICAL INFORMATION
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Potential Health Effects

Eye: May cause irritation.
Skin: May cause skin irritation. May cause an allergic reaction.

Inhalation: Inhalation of vapors and spray may cause respiratory irritation. Cadmium is highly toxic by inhalation. Cobalt sulfate is a sensitizer and may cause an allergic reaction with asthma-like symptoms.

Ingestion: Swallowing may cause gastrointestinal irritation, nausea, vomiting, diarrhea. Cadmium and cobalt compounds are toxic if swallowed.

Chronic Hazards: Prolonged inhalation mists or sprays may cause respiratory and lung damage. Prolonged exposure to cadmium may damage the liver and kidneys. May cause cancer, adverse effects on the DNA of reproductive cells and adverse reproductive effects. Risk of these effects depends on duration and level of exposure.

Carcinogen Status: Cobalt sulfate is classified by IARC as possibly carcinogenic to humans (Group 2B) and by NTP as reasonably anticipated to be a carcinogen. Cadmium and cadmium compounds are classified as known human carcinogens by IARC (Group 1), NTP and OSHA. None of the components of this product are listed as carcinogens by OSHA, IARC, NTP, ACGIH or the EU CLP.

Acute Toxicity Values:

Acute Toxicity Estimate (ATE) oral 20,000 mg/kg

Cobalt Sulfate: Oral rat LD50 768 mg/kg

Cadmium Sulfate: Oral rat LD50 280 mg/kg

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ECOLOGICAL INFORMATION

Ecotoxicity: Cobalt sulfate and Cadmium sulfate are toxic to aquatic organisms. This product is classified under the GHS as Aquatic Chronic Toxicity Category 2.

Persistence and Degradability: No data available

Bio-accumulative Potential: No data available

Mobility in Soil: No data available

Other Adverse Effects: None known

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DISPOSAL CONSIDERATIONS

Disposal Methods: Dispose in accordance with all local, regional and national regulations.

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TRANSPORT

DOT: Not regulated

IMDG Shipping Description: UN3082, Environmentally Hazardous Substance, Liquid, n.o.s. (Cobalt Sulfate, Cadmium Sulfate), 9, III

ID Number: UN3082

Hazard Class: 9

Packing Group: III

Labels Required: Class 9

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REGULATORY INFORMATION

Safety, Health, and Environmental Regulations:

CERCLA Hazardous Substances (Section 103)/RQ: This product has no Reportable Quantity (RQ). Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

SARA Hazard Category (311/312): Acute Health, Chronic Health

SARA 313: This product contains the following chemicals regulated under SARA Title III, section 313: Cobalt Compounds, Cadmium Compounds.

EPA TSCA Inventory: All of the components of this product are listed on the TSCA inventory.

CALIFORNIA PROPOSITION 65: This product contains the following substances known to the state of California to cause cancer and/or reproductive toxicity: Cobalt sulfate heptahydrate, Cadmium compounds

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OTHER INFORMATION

Disclaimer:

The listed supplier cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available. The information provided in 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.