

Product Name: Frog Leap Depth Charge
Revision Date: October 1, 2016
Supersedes: Rev 2, 05/20/2015
Revision: 3

1. Identification

Product Identifier: Frog Leap Depth Charge
Other Means of Identification: Potassium Peroxymonosulfate compound
Recommended Use: Oxidizing agent
Supplier: King Technology, Inc
530 11th Ave S, Hopkins, MN 55343, USA
Phone (952) 933-6118
Emergency Telephone: Chemtrec (800) 424-9300 (outside the U.S. 1-703-527-3887)

2. Hazards Identification

GHS Classification: Skin Corrosion: Category 1
Eye Damage: Category 1
Acute Toxicity (Inhalation): Category 4
Single Target Organ Toxicity (Single Exposure): Category 3

GHS Label Elements:

– **Signal Word:** DANGER

– **Pictogram:**



– **Hazard Statements:** Causes severe skin burns and eye damage
Harmful if swallowed
May cause respiratory irritation

– **Precautionary Statements:** Do not breathe dusts or mists.
Use only outdoors or in a well-ventilated area.
Wash exposed areas thoroughly after handling.
Wear protective gloves, protective clothing, and eye and face protection.
If swallowed: Rinse mouth. Do NOT induce vomiting.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
Wash contaminated clothing before reuse.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
Immediately call a poison center or doctor.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a poison center or doctor.
Store locked up in a well-ventilated place. Keep container tightly closed.
Dispose of contents and container in accordance with local, regional, national, and international regulations.

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Unclassified Hazards: None

Percentage of Ingredients with Unknown Toxicity: Zero

3. Composition / Information on Ingredients

Components	Weight %
Pentapotassium bis(peroxymonosulphate) bis(sulphate) CAS No: 70693-62-8	86 - 96
Dipotassium peroxodisulphate CAS No: 7727-21-1	0 - 5
Tetra[carbonato(2-)]dihydroxypentamagnesium CAS No: 7760-50-1	1 - 2

The specific percentages of composition have been withheld as trade secrets.

4. First-aid Measures

Eye contact: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes then continue rinsing eye. Call a poison control center or doctor immediately.

Skin contact: Remove contaminated clothing. Rinse skin immediately with plenty of soap and water for 15-20 minutes. Call a poison control center or doctor immediately.

Inhalation: Move person to fresh air. If person is not breathing call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible. Call a poison control center or doctor for treatment advice.

Ingestion: Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person. Have the product container or label with you when calling a poison control center or doctor, or when going for treatment.

Most Important Symptoms, Acute and Delayed: Causes severe skin burns and eye damage. Harmful if swallowed. May cause respiratory irritation.

Immediate Medical Attention Required: If exposed, immediately call a poison center or doctor for treatment advice.

5. Fire-fighting Measures

The product itself does not burn.

Suitable Extinguishing Media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
 Do not use Carbon dioxide (CO₂)

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Flash Point: Does not flash

Specific Hazards Arising From the Chemical: Oxygen, Sulfur dioxide, Sulfur trioxide

Special Protective Equipment and Precautions for Fire-fighters: In the event of a fire, wear self-contained breathing apparatus and protective suit.

6. Accidental Release Measures

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Personnel Precautions: Evacuate personnel to safe areas. Use personal protective equipment.

Methods and Materials for Containment and Cleaning Up: Sweep up and shovel into suitable containers for disposal. Avoid dust formation. After cleaning, flush away traces with water. Try to prevent the material from entering drains or water courses. Dispose of in accordance with local regulations.

7. Handling and Storage

Handling: Use only outdoors or in well-ventilated areas. Do not breathe dust. Avoid dust formation in confined areas. Avoid contact with skin and eyes. Keep away from heat and flame. Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice.

Storage: Keep in dry, cool and well-ventilated place. Protect from contamination. Store locked up in original container. Keep away from: Combustible material, never allow product to get in contact with water during storage. Stable under recommended storage conditions.

8. Exposure Controls and Personal Protection

Appropriate Engineering Controls: Ensure adequate ventilation.

Exposure Limits: Exposure Limit Values

Pentapotassium bis(peroxymonosulphate) bis(sulphate)
AEL* (DUPONT) 1 mg/m³ 8 & 12 hr TWA total dust

Dipotassium peroxodisulphate
TLV (ACGIH) 0.1 mg/m³ TWA as persulfate

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Potassium sulfate
AEL* (DUPONT) 10 mg/m³ 8 hr. TWA

*AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

Personal protective equipment:

Respiratory protection: When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hand protection: Material – impervious gloves.

Eye protection: Wear safety glasses or coverall chemical splash goggles.

Skin and body protection: Where there is potential for skin contact, have available and wear as appropriate, impervious gloves, apron, pants, jacket, hood and boots. Remove and wash contaminated clothing before re-use.

General protective and hygiene measures: When using do not eat or drink. Do not breath dust.

9. Physical and Chemical Properties

Appearance: Granular white solid
Odor: None
Odor threshold: Not available
Melting point / range: Decomposes before melting.
Boiling point / range: Not available
Flash point: Not available
Evaporation rate: Not available
Flammability: Not available
Vapor pressure: < 0.0000017 hPa
Vapor density: Not available
Solubility in water: 297 – 357 g/L at 22 °C (72 °F)
Specific gravity: 1,100 – 1,400 kg/m³
pH: 2.1 at 30 g/L 20 °C (68 °F)
Flammability limits: Not available
Partition coefficient: Not available
Auto-ignition temperature: Not available
Decomposition temperature: Not available
Viscosity: Not available

10. Stability and Reactivity

Reactivity: This product is not reactive under normal conditions.

Stability: Stable under recommended storage conditions

Possibility of hazardous reactions: Will not occur under normal conditions.

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Conditions to avoid: Temperature > 50° C (> 122° F). Avoid extreme heat

Incompatible materials: Halogenated compounds, Cyanides, Heavy metal salts

Hazardous decomposition products: Hazardous decomposition products: Oxygen, Sulfur dioxide, Sulfur trioxide

11. Toxicological Information

Potassium Peroxymonosulfate compound:

Inhalation 4 h LC50 > 5 mg/l, rate

Skin irritation Causes burns, rabbit

Eye irritation Severe eye irritation, rabbit

Sensitization Did not cause sensitization on laboratory animals, guinea pig.
Did not cause sensitization on laboratory animals.
May cause sensitization of susceptible persons by skin contact or by inhalation of dust.

Pentapotassium bis(peroxymonosulphate) bis(sulphate):

Dermal LD50, rat
Dose: >2,000 mg/kg

Oral LD50, rat
Dose: 500 mg/kg

Repeated dose toxicity Inhalation
Rat
Reversible, corneal damage

Oral
Rat
Gastrointestinal effects

Mutagenicity Did not cause genetic damage in animals.
Tests on mammalian cell cultures showed mutagenic effects.
Did not cause genetic damage in cultured bacterial cells.
Overall weight of evidence indicates that the substance is not mutagenic.

Teratogenicity Animal testing showed effects on embryo-fetal development at levels to or above those causing maternal toxicity.

Dipotassium peroxodisulphate:

Dermal LD50, Rabbit

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Dose: > 10,000 mg/kg

Oral LD50, Rat
Dose: 802 mg/kg

Mutagenicity Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

12. Ecological Information

The following ecotoxicological data refer to:

Pentapotassium bis(peroxymonosulphate) bis(sulphate):

96 h LC50 Cyprinodon variegatus (sheepshead minnow) 1.09 mg/L

72 h ErC50 Algae > 1 mg/L

48 h EC50 Daphnia 3.5 mg/L

Dipotassium peroxodisulphate

48 h LC50 Daphnia magna (Water flea) 92 mg/L

Environmental Fate: Pentapotassium bis(peroxymonosulphate) bis(sulphate):

Biodegradability: Readily biodegradable

Bioaccumulation: Bioaccumulation is unlikely.

13. Disposal Considerations

Waste Disposal: Dispose of in accordance with local regulations.

Environmental Hazards: If recycling is not practicable, dispose of in compliance with local regulations.

14. Transportation information

US DOT: UN Number: 3260
Proper shipping name: Corrosive solid, acidic, inorganic, n.o.s.
(Monopersulfate compound)
Class: 8
Packing Group: II
Labels: 8

IATA_C: UN Number: 3260
Proper shipping name: Corrosive solid, acidic, inorganic, n.o.s.
(Monopersulfate compound)
Class: 8
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IMDG: UN Number: 3260
Proper shipping name: Corrosive solid, acidic, inorganic, n.o.s.
(Monopersulfate compound)
Class: 8
Packing Group: II
Labels: 8

15. Regulatory information

TSCS Status On the inventory, or in compliance with the inventory

SARA 313 Regulated Chemical(s) SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Title III hazard classification Acute Health Hazard: Yes
Chronic Health Hazard: No
Fire: No
Reactivity/Physical hazard: No
Pressures: No

California Prop. 65 Chemicals known to the State of California to cause cancer, birth defects or any other harm: none known

NJ Right to Know Regulated Chemical(s) Substances on the New Jersey Workplace Hazardous Substance List present at a concentration of 1% for substances identified as carcinogens, mutagens or teratogens): Potassium hydrogensulphate

Active Compound: Active Ingredient in this composition is Potassium Peroxymonosulfate, CAS No: 10058-23-8, Concentration 43 – 47%

16. Other information

Date of preparation: October 1, 2016

Details of change from previous version:

- Updated Corporate Logo

The information in this Safety Data Sheet should be provided to all who use, handle, store, transport, or otherwise be exposed to this product. This information has been prepared for the guidance of plant engineering, operations and management, and for persons working with or handling this product. Additionally, if this Safety Data Sheet is more than three years old you should contact King Technology to make certain that this sheet is current.

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reliance upon information. Factors pertaining to certain conditions of storage, handling, and/or use of this product may involve other or additional safety considerations.

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End of safety data sheet