SAFETY DATA SHEET

EFFECTIVE DATE: 06/06/17

ITEM: Deluxe Roadside Emergency Kit

PART #    UPC
8901      039147089012
8901S

CONTENTS:
Alcohol Prep/Swab
Antiseptic Towelette
Battery
First Aid Burn Cream
Red Emergency Flare
Instant Cold Pack
Light Stick (Green)
Moist Towelette
Sting & Bite Pad
SAFETY DATA SHEET

SECTION 1. Product and Company Identification

PRODUCT NAME: Alcohol Preparation Pads/Swab

RECOMMENDED USE: Topical skin antiseptic

Product Code: AM-20200, 1113, 1114, 1116, PK-1114

Manufacturer’s Name: Dynarex Corporation

Manufacturer’s Address: 10 Glenshaw Street
Orangeburg, NY 10962

Emergency or Information Phone No.: 888-DYNAREX or 845-365-8200

At other times, contact the local Poison Control Center

SECTION 2. Hazards Identification

Main Hazards:
Highly flammable; irritation to eyes; vapor may cause drowsiness and dizziness

Absorption:
Eye contact; ingestion; inhalation; skin contact

Carcinogenic Status:
Not considered carcinogenic by NTP, IARC, and OSHA

Target Organs:
Central nerves system; skin; eye; liver; respiratory system

Health Effects:
Eyes – Liquid, mist or vapor will cause conjunctival irritation and possible corneal damage.

Skin – Repeated or prolonged contact may produce defatting of the skin leading to irritation and dermatitis. Liquid may be absorbed through the skin but not in toxicologically significant amounts, unless the contact area is large and under prolonged exposure.

Ingestion – Swallowing a small amount may have the effect of any of these symptoms: irritation of mouth, throat, digestive tract, and central nervous system depression.

Ingestion – A large dose may have the effect of any of these symptoms: dizziness, drowsiness, headache, mental confusion, nerve damage leading to numbness and muscle weakness, fall of blood pressure, liver damage, lung damage.

Inhalation – Exposure to vapor may have the effect of any of these symptoms: irritation of nose, throat and respiratory tract, central nerve system depression.

Inhalation – Exposure to vapor at high concentration may have the effects of any of these symptoms: dizziness, drowsiness, headache, mental confusion, lung damage, fall of blood pressure, liver damage, nerve damage leading to numbness and muscle weakness.

**SECTION 3. Composition/information on Ingredients**

<table>
<thead>
<tr>
<th>Hazardous Ingredients (specific)</th>
<th>% Composition</th>
<th>CAS Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl Alcohol (2-Propanol)</td>
<td>70%</td>
<td>67-63-0</td>
</tr>
<tr>
<td>Inactive Ingredient</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>30%</td>
<td>7732-18-5</td>
</tr>
</tbody>
</table>
SECTION 4. First-aid measures

Eyes:
Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.

Skin:
Immediately flood the affected skin area with large quantity of water, preferably under a shower. Remove contaminated clothing and continue washing. Contaminated clothing should be washed thoroughly before re-use. Obtain medical attention if blistering of the skin occurs or redness persists.

Ingestion:
Do not induce vomiting. Have victim drink several large glasses of water to dilute the stomach contents. Give the victim oxygen if he/she has difficulty in breathing. Obtain medical attention immediately.

Inhalation:
Remove the victim from exposure immediately. Give the victim oxygen if he/she has difficulty in breathing. Obtain medical attention immediately.

MEDICAL PERSONNEL:
Monitor the victim for systemic secondary effects on liver and kidney functions. Support and treat as appropriate.

SECTION 5. Fire-fighting measures

Flash Point – 20°C/68°F
Boiling Point – 80°C/176°F
Extinguishing Media – Dry Chemical or Alcohol Type Foam, Carbon Dioxide

Be aware of the possibility of re-ignition. Keep containers and surroundings cool with water spray.

Unusual Fire and Explosion Hazards –
Class 3 Flammability. Vapor can travel a considerable distance to a source of ignition and flashback. Flashback can occur if air temperature exceeds flash point. Be aware the possibility of re-ignition.

Special Fire Fighting Procedures –
Handle as Flammable Liquid. Use Respiratory Protection. Wear full protective clothing for Fire Fighting Personnel.

SECTION 6. Accidental release measures

- Flush spills with water.
- Contain and absorb using soil, sand, or other inert material.
- Vapor can accumulate in low areas. Consider the need for evacuation.
- Prevent the material from entering drains or water courses.

SECTION 7. Handling and storage

- Eliminate all sources of ignition. Store away from heat.
- Store in well ventilated area.
- Handle as flammable liquid. Follow local, state and federal regulations.
- Avoid inhaling vapor. Avoid contact with eyes, skin and clothing.
- Wear eye protection if splashing is expected.
- Wear appropriate protective clothing.
- Use respirator if exposure level is high when handling bulk liquid.
- Keep container tightly closed when not in use.
SECTION 8. Exposure controls/personal protection

- OSHA Occupation Exposure Standards PEL 400ppm (980mg/m3) 8h TWA
- UK EH40: OES 400ppm (980mg/m3) 8h TWA
- UK EH40: OES 500ppm (1225mg/m3) 15min TWA
- ACGIH: TLV 200ppm (980mg/m3) 8h TWA
- ACGIH: STEL 400ppm (1225mg/m3) 15min TWA
- Personal Protective Equipment
  - Gloves
  - Eye
  - Clothing

SECTION 9. Physical and chemical properties

Appearance – Liquid Saturated Towelette / Pad / Swab
Color – Clear
Odor – Alcohol
Vapor Density – 2.1 (Air = 1)
Viscosity (cSt) – 2.9 cps at <@2> °C

Evaporation Rate – Environmental Dependent
Water Solubility – Complete
Specific Gravity – 0.8405

SECTION 10. Stability and reactivity

Stability – Stable under normal conditions
Conditions to Avoid – None
Incompatibility – None
Hazardous Decomposition or By-product – Oxides of carbon
Polymerization – Will Not Occur.

SECTION 11. Toxicological information

Acute Toxicity

- Low level of acute toxicity predicted.
- May be harmful by skin absorption.
- Oral LD50 (rat) 5045mg/kg.
- Dermal LD50 (rabbit) 12800mg/kg.
- Inhalation LC50 (rat) 1600ppm 4h.

Chronic Toxicity / Carcinogenicity

- Material not expected to cause long-term adverse health effects.
- Material not classifiable as to its carcinogenicity to humans (Group 3).
- Chronic / Sub-chronic studies resulted in adverse effects to:
  - Liver, spleen, biochemical effects, brain tissue degeneration, changes in reflex behavior, sensory nerve damage.

Genealogy Toxicity

- Material is not expected to cause any mutagenic effects.

Reproductive / Developmental Toxicity

- Material is not expected to cause reproductive or developmental health effects.
- Experimental studies in animals have provided some evidence of embryo / fetus toxicity and birth defects only at does producing marked maternal toxicity.

SECTION 12. Ecological information

- Mobility
• If released to soil, IPA is expected to have very high mobility
• Persistence / Degradability
• IPA is readily degraded in aerobic aqueous systems
• Bio-accumulation

• Low potential for bio-concentration in aquatic organisms

SECTION 13. Disposal considerations

• Transfer into suitable containers for recovery or disposal.
• Dispose in accordance with all applicable local and national regulations.
• Do not remove labels from container until the container has been cleaned.
• Do not cut, puncture or weld on or near the container.
• Do not incinerate closed containers.
• Empty containers may contain hazardous residues

SECTION 14. Transport information

• DOT CFR 172.101
• Not regulated per 49 CFR 173.4 Small Quantity Exemption

SECTION 15. Regulatory information

This product is compliant with the following:

• EU Label: Classification and labeling have been performed according to EU Directive 67/548/EEC and 99/45/EC including amendments
• EU Hazard Symbol and Indication of Danger
  • F – Highly flammable
  • Xi – Irritant
  • R11 – Highly flammable
- R36 – Irritating to eyes
- R67 – Vapors may cause drowsiness and dizziness
- S2 – Keep out of reach of children
- S7 – Keep container tightly closed
- S16 – Keep away from sources of ignition – No smoking
- S24 / S25 – Avoid contact with skin and eyes
- S26 – In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
- US (Federal and State) Regulations and International Chemical Registration Laws TSCA listing
- This product contains ingredients that are listed on or exempt from listing on the EPA Toxic Substance Control Act Chemical Inventory
- This product does not contain any chemicals subject to EPA Title III of the SARA Listing in Sections 302 and 304
- All ingredients in this product are listed on the European Inventory of Existing Commercial Chemical Substance (EINECS Listing) or are exempted from listing
- All ingredients in this product are listed on the Canada Domestic Substance List (DSL Listing)

**SECTION 16. Other information**

Disclaimer:
This Safety Data Sheet, which takes into consideration the requirements of Directive 76/768/EC and subsequent amendments and Directive 1999/45/EC plus subsequent amendments, has been prepared in accordance with Directive (EC) 1907/2006. It is believed to be correct and corresponds to the latest scientific/technical knowledge but all data, instructions, recommendations and/or suggestions are made without guarantee. No warranty, expressed or implied, is made and Dynarex Corp. assumes no legal responsibility or liability resulting from its use.
SAFETY DATA SHEET

SECTION 1. Product and Company Identification

PRODUCT NAME: BZK Antiseptic Towelette
PRODUCT USE: Antiseptic
Product Code: 1303, 1331
Manufacturer’s Name: Dynarex Corporation
Manufacturer’s Address: 10 Glenshaw Street
Orangeburg, NY 10962
Emergency or Information Phone No.: 888-DYNAREX or 845-365-8200
Phone No.: At other times, contact the local Poison Control Center

SECTION 2. Hazards Identification

Physical hazards Not classified
Health hazards Not classified
  - Environmental hazards Not determined
OHSA defined hazards Not classified
Label elements
  - Hazard symbol None
  - Signal word Not available
  - Hazard statement Not available
  - Precautionary statement
    o Prevention Not available
    o Response Not available
    o Storage Not available
    o Disposal Not available
Hazard(s) not otherwise classified (HNOC) None known
Supplemental information None
SECTION 3. Composition/information on Ingredients

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS Number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>BZK</td>
<td>8001-54-5</td>
<td>0.13</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>99.87</td>
</tr>
</tbody>
</table>

SECTION 4. First-aid measures

First aid procedures

Eye Contact
Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists.

Skin Contact
In case of skin irritation, discontinue use of product.

Inhalation
Not a normal route of exposure. If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention.

Ingestion
Not a normal route of exposure. Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.

Notes to physician
Symptoms may be delayed.

General advice
If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Keep out of reach of children. Avoid contact with eyes.

Flammable Limits: N/A
Flash Point: N/A
SECTION 5. Fire-fighting measures

Flash Point: Not Available
Flammable Limits: Not Available
Extinguishing Media: Any
Special Fire Fighting Procedures: None
Unusual Fire and Explosion Hazards: None

SECTION 6. Accidental release measures

Personal precautions: Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.

Methods for containment: Prevent entry into waterways, sewers, basements or confined areas.

Methods for cleaning up: Pick up and discard towel.

SECTION 7. Handling and storage

Handling: Use good industrial hygiene practices in handling this material.

Storage: Keep out of reach of children. Store in a closed container away from incompatible materials.

SECTION 8. Exposure controls/personal protection

Engineering controls: General ventilation normally adequate.

Personal protective equipment
Eye/Face protection
Follow standard industrial hygiene practices.

Hand protection
Not required.

Skin and body protection
As required by employer code.

Respiratory protection
Where exposure guideline levels may be exceeded, use and approved NIOSH respirator.

General hygiene considerations
Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink.

SECTION 9. Physical and chemical properties

Appearance/Odor: Liquid saturated on wipe
Color: Clear liquid
Form: Liquid saturated on wipe
Odor: Characteristic
Odor Threshold: Not available
Physical State: Solid
Boiling Point: <200°F
Paper Components: 100% Virgin Paper
Specific Gravity: 1

SECTION 10. Stability and reactivity

Chemical Stability: Stable under recommended storage conditions.
Hazardous Decomposition Products: May include and are not limited to: oxides of carbon; hydrogen chloride.
Hazardous Polymerization: Will not occur.
Conditions to avoid: Do not mix with other chemicals.

SECTION 11. Toxicological information

Effects of acute exposure

Eye
May cause irritation
Skin

In case of skin irritation, discontinue use of the product.

Inhalation

Not a normal route of exposure. May cause respiratory tract irritation.

Ingestion

Not a normal route of exposure. May cause stomach distress, nausea or vomiting.

Sensitization

Non-hazardous by WHMIS/OSHA criteria.

Chronic Effects

Non-hazardous by WHMIS/OSHA criteria.

Carcinogenicity

Non-hazardous by WHMIS/OSHA criteria.

Mutagenicity

Non-hazardous by WHMIS/OSHA criteria.

Reproductive Effects

Non-hazardous by WHMIS/OSHA criteria.

Teratogenicity

Non-hazardous by WHMIS/OSHA criteria.

SECTION 12. Ecological information

Ecotoxicity Not available

Environmental effects Not available

Aquatic toxicity Not available

Persistence / degradability Not available

Bioaccumulation / accumulation Not available

Partition coefficient Not available

Mobility in environmental media Not available

Chemical fate information Not available

Other adverse effects Not available

SECTION 13. Disposal considerations

Waste codes: Not available
Disposal instructions: Discard after single use.

Review federal, state/provincial, and local government requirements prior to disposal.

Discard with solid waste. Dispose in accordance with all applicable regulations.

Waste from residues / unused products: Not available

Contaminated packaging: Not available

SECTION 14. Transport information

U.S. Department of Transportation (DOT) Not regulated as dangerous goods.

Transportation of Dangerous Goods (TDG - Canada) Not regulated as dangerous goods.

SECTION 15. Regulatory information

Canadian federal regulations This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

US Federal regulations This product is not known to be a “Hazardous Chemical” as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

Occupational Safety and Health Administration (OSHA)
29 CFR 1910.1200 hazardous No chemical

CERCLA (Superfund) reportable quantity
Benzene: 10.0000
Benzene, methyl-: 1000.0000
Benzene, (chloromethyl)-: 100.0000
Propylene oxide: 100.0000

Superfund Amendments and Reauthorization Act of 1986 (SARA)
Hazard categories
Immediate Hazard - No
Delayed Hazard - No
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No  

Section 302 extremely hazardous substance No  

Section 311 hazardous chemical No  

Clean Air Act (CAA) Not available  

Clean Water Act (CWA) Not available  

Safe Drinking Water Act (SDWA) Not available  

Drug Enforcement Agency (DEA) Not available  

Food and Drug Administration (FDA) Not available  

State regulations WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.  

SECTION 16. Other information  

Disclaimer:  
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1. **IDENTIFICATION**

   **PRODUCT NAME:** Zinc Chloride Battery  
   **SIZES:** All sizes  
   **EMERGENCY HOTLINE:** 800-424-9300 (24 hr, Chemtrec)  
   **EDITION DATE:** 08/11/2014

2. **HAZARD IDENTIFICATION**
   
   We would like to inform our customers that these batteries are exempt articles and are not subject to the 29 CFR 1910.1200 OSHA requirements, Canadian WHMIS requirements or GHS requirements.
   
   **Emergency Overview**
   - OSHA Hazards-not applicable
   - Target Organs-not applicable
   - GHS Classification-not applicable
   - GHS Label Elements, including precautionary Statement-not applicable
   - Pictogram-not applicable
   - Signal words-not applicable
   - Hazard statements-not applicable
   - Precautionary statements-not applicable

3. **COMPOSITION/INFORMATION ON INGREDIENTS**

<table>
<thead>
<tr>
<th>INGREDIENT NAME</th>
<th>CAS #</th>
<th>%</th>
<th>TLV*/**TWA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel</td>
<td>7439-89-6</td>
<td>8-14</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Manganese Dioxide</td>
<td>1313-13-9</td>
<td>28-32</td>
<td>C5.0 mg/m$^3$ (TWA)</td>
</tr>
<tr>
<td>Zinc</td>
<td>7440-66-6</td>
<td>16-20</td>
<td>5.0 mg/m$^3$ (ZnOas Fume)</td>
</tr>
<tr>
<td>Acetylene Black</td>
<td>1333-86-4</td>
<td>7-13</td>
<td>3.5 mg/m$^3$ (Carbon Black, TWA)</td>
</tr>
<tr>
<td>Ammonium Chloride</td>
<td>12125-02-9</td>
<td>1-3</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Zinc Chloride</td>
<td>7646-85-7</td>
<td>6-10</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Lead</td>
<td>7439-92-1</td>
<td>&lt;0.02</td>
<td>50 ug/m$^3$ (TWA)</td>
</tr>
<tr>
<td>Water, paper, plastic, other</td>
<td>---</td>
<td>Balance</td>
<td>---</td>
</tr>
</tbody>
</table>

*Source: OSHA 29 CFR 1910.1000 Table Z-1, 2 or 3  11-01-2012*
4. **FIRST AID INFORMATION**

**THRESHOLD LIMIT VALUE (TLV) AND SOURCE:** NA

**EFFECTS OF OVEREXPOSURE:** None (see section 2 and 4 for fire or rupture situations)

**EMERGENCY FIRST AID PROCEDURES:**

**Skin and Eyes:**
In the event that battery ruptures, flush exposed skin with flowing lukewarm water for a minimum of 15 minutes. Get immediate medical attention for eyes. Wash skin with soap and water.

**Swallowing:**
*If you or your doctor suspects that a battery has been ingested— for assistance in the US call the NATIONAL BATTERY INGESTION HOTLINE any time at (202) 625-3333: in Canada call 416-813-5900.*

For more information, please visit:

5. **FIRE FIGHTING MEASURES**

**FLASH POINT:** NA

**LOWER (LEL):** NA

**FLAMMABLE LIMITS IN AIR (%):** NA

**UPPER (UEL):** NA

**EXTINGUISHING MEDIA:** Use water, foam, or dry powder as appropriate.

**AUTO-IGNITION:** NA

**SPECIAL FIRE FIGHTING PROCEDURES:** As with any fire, wear self-contained breathing apparatus to avoid inhalation of hazardous decomposition products (See section 2).

**SPECIAL FIRE OR EXPLOSION HAZARDS:** Like any sealed container, battery cells may rupture when exposed to excessive heat; this could result in the release of corrosive materials.

6. **ACCIDENTAL RELEASE MEASURES**

**TO CONTAIN AND CLEAN UP LEAKS OR SPILLS:** In the event of a battery rupture, prevent skin contact and collect all released material in a plastic lined metal container.

**REPORTING PROCEDURE:** Report all spills in accordance with Federal, State and Local reporting requirements.
7. **HANDLING AND STORAGE**

Store batteries in a dry place. Storing unpackaged cells together could result in cell shorting and heat build-up. Do not recharge. Do not puncture or abuse.

8. **EXPOSURE CONTROL/PERSONAL PROTECTION**

- **RESPIRATORY PROTECTION (SPECIFY TYPE):** NA
- **VENTILATION:**
  - Local Exhaust: NA
  - Mechanical (General): NA
  - Special: NA
  - Other: NA
- **PROTECTIVE GLOVES:** NA
- **EYE PROTECTION:** NA
- **OTHER PROTECTIVE CLOTHING:** NA

9. **PHYSICAL AND CHEMICAL PROPERTIES**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point @ 760 mm Hg (°C):</td>
<td>NA</td>
</tr>
<tr>
<td>Percent Volatile by Volume (%):</td>
<td>NA</td>
</tr>
<tr>
<td>Vapor Pressure (mm Hg @ 25°C):</td>
<td>NA</td>
</tr>
<tr>
<td>Evaporation Rate (Butyl Acetate = 1):</td>
<td>NA</td>
</tr>
<tr>
<td>Vapor Density (Air = 1):</td>
<td>NA</td>
</tr>
<tr>
<td>Physical State:</td>
<td>NA</td>
</tr>
<tr>
<td>Density (grams/cc):</td>
<td>NA</td>
</tr>
<tr>
<td>Solubility in Water (% by Weight):</td>
<td>NA</td>
</tr>
<tr>
<td>pH:</td>
<td>NA</td>
</tr>
<tr>
<td>Appearance and Odor:</td>
<td>Geometric solid object</td>
</tr>
</tbody>
</table>

10. **STABILITY AND REACTIVITY**

- **STABLE OR UNSTABLE:** Stable
- **INCOMPATIBILITY (MATERIALS TO AVOID):** NA
- **HAZARDOUS DECOMPOSITION PRODUCTS:** NA
- **DECOMPOSITION TEMPERATURE (0°F):** NA
- **HAZARDOUS POLYMERIZATION:** Will Not Occur
- **CONDITIONS TO AVOID:** Avoid electrical shorting, puncturing or deforming

11. **TOXICOLOGICAL INFORMATION**

<table>
<thead>
<tr>
<th>INGREDIENT NAME</th>
<th>CAS #</th>
<th>%</th>
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<td>Balance</td>
<td>---</td>
</tr>
</tbody>
</table>

**NA = Not Applicable**
12. **ECOLOGICAL INFORMATION**

Under normal use these batteries do not release their ingredients into the environment. Damaged or abused batteries can release small amounts of zinc, and manganese. Damaged batteries carelessly discarded could release small amounts of zinc to storm or surface water. Do not place in fire. Dispose of properly when discharged. Use a recycling outlet if available. Those collecting batteries should follow state and federal regulations. Partially discharged damaged batteries can overheat and cause fires in the presence of other combustible materials.

13. **DISPOSAL CONSIDERATIONS**

Always comply with Federal, state or local requirements. If you choose to retain discharged batteries and recycle be sure to store them out of the reach of children and pets. Do not store with adult medications of similar size or shape. For additional information on disposal/reclaim options, visit: [http://www.nema.org/Policy/Environmental-Stewardship/Documents/Companies%20Claiming%20to%20Recycle.MARCH2005.pdf](http://www.nema.org/Policy/Environmental-Stewardship/Documents/Companies%20Claiming%20to%20Recycle.MARCH2005.pdf)

14. **TRANSPORTATION INFORMATION**

TRANSPORTATION-SHIPPING: These are considered dry-cell batteries and they are non-dangerous goods for transportation. These batteries must be packed in a way to prevent short circuits or generation of a dangerous quantity of heat.

USDOT – See Special Provision 130.
IMDG/Ocean – Not Listed.
ICAO/IATA – See Special Provision A123. This special provision also states to put the words “not restricted” and “special provision A123” on the air waybill when an air waybill is issued.

15. **REGULATORY INFORMATION**

**SARA 313:** Notification is not required because these products are article(s) that do not release a covered toxic chemical under the normal conditions of storage, use, or handling.

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**NOTICE:** The information and recommendations set forth are made in good faith and are believed to be accurate at the date of preparation. Spectrum Brands Inc. (Rayovac) makes no warranty expressed or implied.
SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Identifier  #007
Product Name  First Aid Burn Cream
Product Use  Topical Antiseptic and Analgesic Skin Cream
Manufacturer  Water Jel Technologies LLC
50 Broad Street
Carlstadt, New Jersey 07072
Telephone  201-507-8300
E-mail Address  www.waterjel.com
Emergency Telephone  1-800-275-3433
FAX Number  201-507-8325

Issue Date:  08-25-2015

SECTION 2: HAZARDS IDENTIFICATION

Emergency Overview:
This product is regulated by the US FDA as an over-the-counter, monograph drug.

For Consumers, consult the Drug Facts on the package for use directions and warnings information.

  Warnings: For External Use Only.
  When using this product, avoid contact with the eyes.
  Do not use on large areas of the body or on broken, blistered or oozing skin.
  Stop use and ask a doctor if condition worsens or symptoms persist for more than 7 days.
  If swallowed, get medical help or contact a Poison Control Center immediately.

Physical Hazards:  This mixture does not meet the classification criteria according to OSHA Hazcom 2012.
Health Hazards:  This mixture does not meet the classification criteria according to OSHA Hazcom 2012.
Environmental Hazards:  This mixture does not meet the classification criteria according to OSHA Hazcom 2012.
OSHA Defined Hazards:  This mixture does not meet the classification criteria according to OSHA Hazcom 2012.

Label Elements:
  Hazard Symbol:  None
  Signal Word:  None
  Hazard Statement:  The mixture does not meet the criteria for classification.
  Precautionary Statement:
    Prevention  None required according to OSHA Hazcom 2012.
    Response  None required according to OSHA Hazcom 2012.
    Storage  None required according to OSHA Hazcom 2012.
    Disposal  None required according to OSHA Hazcom 2012.

Hazards not otherwise Classified (HNOC):  None known.

Supplemental Information:  None.
Route of Entry:

Skin Contact: May cause irritation, redness, inflammation or dryness.
Skin Absorption: No adverse conditions expected.
Eye Contact: Flush eyes with clear running water for a minimum of 15 minutes; if irritation persists, seek medical attention.
Inhalation: Not expected due to form.
Ingestion: May cause irritation of the digestive tract.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Common Name and Synonyms</th>
<th>CAS Number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzalkonium Chloride</td>
<td></td>
<td>63449-41-2</td>
<td>0.13</td>
</tr>
<tr>
<td>Lidocaine HCl</td>
<td></td>
<td>6108-05-0</td>
<td>0.5</td>
</tr>
<tr>
<td>Glycerin</td>
<td>1, 2, 3, Propanetriol</td>
<td>56-81-5</td>
<td>Proprietary</td>
</tr>
<tr>
<td>Triethanolamine</td>
<td>Trolamine</td>
<td>102-71-6</td>
<td>Proprietary</td>
</tr>
<tr>
<td>Propylene Glycol</td>
<td>1, 2, 3, Propanetriol 2-Hydroxypropanol</td>
<td>57-55-6</td>
<td>Proprietary</td>
</tr>
</tbody>
</table>

SECTION 4: FIRST AID MEASURES

Skin Contact: Wash off with warm water and soap. Get medical attention if symptoms occur.
Skin Absorption: No adverse conditions expected.
Eye Contact: Flush eyes with clear running water for a minimum of 15 minutes; if irritation persists, seek medical attention.
Inhalation: Remove victim to fresh air.
Ingestion: May cause irritation of the digestive tract.

SECTION 5: FIRE-FIGHTING MEASURES

Flammable: No
Means of Extinction: Use extinguishing media appropriate for surrounding fire. Use water spray, foam or dry chemical.
In fires involving large quantities of this product, the use of large streams of water should be avoided.
Use self-contained breathing apparatus when fighting fires that involve this material.

Flash Point and Method: NA
Upper Flammable Limit (% by volume): NA
Lower Flammable Limit (% by volume): NA
Autoignition Temperature (°C): NA
Explosion Data – Sensitivity to Impact: No unusual fire or explosion hazards noted.
Explosion Data – Sensitivity to Static Discharge: No unusual fire or explosion hazards noted.

NFPA Health 1 Fire 0 Reactivity 0 Other NA
SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, Protective equipment and Emergency procedures: Wear appropriate personal protective equipment.

Methods and materials for containment and clean up: Absorb spill with vermiculite or other inert material, then place in a sealed container for chemical waste.

Large Spills: Flush with plenty of water. Prevent entry into waterways, sewer, basements or confined areas. Dike for later disposal.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Environmental Precautions: Avoid discharge into drains and water sources.

SECTION 7: HANDLING AND STORAGE

Handling Procedures and Equipment: Keep this and other chemicals out of the reach of children.

Storage Temperature: Do not store or mix with strong acids or oxidizers. Store at room temperature.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:

<table>
<thead>
<tr>
<th>Components</th>
<th>ACGIH-TLVs</th>
<th>OSHA-PELs</th>
<th>NIOSH</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerin (CAS 57-55-8)</td>
<td>NE</td>
<td>5 mg/m3</td>
<td></td>
<td>Aerosol</td>
</tr>
<tr>
<td>Propylene Glycol (CAS 57-55-6)</td>
<td>10 mg/m3</td>
<td>NE</td>
<td>NE</td>
<td>Aerosol</td>
</tr>
<tr>
<td>Triethanolamine (CAS 102-71-6)</td>
<td>5 mg/m3</td>
<td>NE</td>
<td>NE</td>
<td>Aerosol</td>
</tr>
</tbody>
</table>

Biological Limit Values: No biological Exposure limits noted for the ingredients.

Ventilation and Engineering Controls: Ensure adequate ventilation.

Personal Protective Equipment: None required under normal conditions
Hand Protection: None required under normal conditions.
Eye and Face Protection: Eye protection, as necessary to prevent excessive contact.
Skin Protection: None required under normal conditions.

General Hygiene Considerations: Practice safe work habits.
Other Protective Equipment: Eye wash stations should be nearby and ready to use.
SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Cream.
Physical State: Cream.
Form: Cream.
Color: White, homogeneous.
Odor: Slightly fatty odor.
pH: No information available.
Boiling Point: 275°F
Melting Point: No information available.
Flash Point: N/A
Explosive Properties: No information available.
Oxidizing Properties: No information available.
Specific Gravity: 0.81
Water Solubility: Miscible.
Partition Coefficient: No information available.
Viscosity: No information available.
Vapor Pressure (mm Hg): No information available.
Vapor Density (Air=1): No information available.
Evaporation Rate: No information available.
% Volatile: No information available.

SECTION 10: STABILITY AND REACTIVITY

Reactivity: The product is stable and non-reactive under normal conditions of use.
Chemical Stability: Stable at normal conditions.
Possibility of Hazardous Reactions: Hazardous polymerization does not occur.
Conditions to Avoid: Extreme heat.
Materials to Avoid: Strong oxidants and strong acids.
Hazardous Decomposition Products: Carbon monoxide, carbon dioxide.
Hazardous Polymerization: Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Symptoms of Overexposure by Route of Exposure:
The health hazard information provided is for handling this product in an occupational setting.

Effects of Acute and Chronic Exposure:

Acute: The primary health effect that may be experienced in an occupational setting is mild irritation of contaminated skin. Accidental ingestion may be harmful. Although unlikely, irritation can irritate the respiratory system. Eye contact will cause irritation.

Chronic: NE

Target Organs: Acute: Occupational exposure: Skin, eyes.

Chronic: Occupational exposure: Skin.

Inhalation:
Mist may slightly irritate the nose, throat and lungs. Symptoms are generally alleviated upon breathing fresh air.
Skin Contact:
Skin contact may cause burning sensation, stinging, itching and tingling.

Eye Contact:
Eye contact can cause irritation, stinging, redness and tearing.

Ingestion:
Ingestion is not a significant route of occupational overexposure. Acute ingestion of large quantities of this product or chronic ingestion may cause adverse symptoms that may include nausea, vomiting and diarrhea.

Irritancy of the Product:
This product may cause mild to moderate irritation on damaged skin.

Skin Sensitization:
Not expected.

Respiratory Sensitization:
Not expected.

LD50/LC50:

- **Propylene Glycol (CAS 57-55-6)**
  - Oral (rat): 2200mg/kg
  - Dermal: (rabbit) 20800 mg/kg

- **Triethanolamine**:
  - Oral (rat): 6110 mg/kg
  - Dermal: (rabbit): >19870 mg/kg

- **Glycerin (Mist)**:
  - Oral (rat): 12,600 mg/kg
  - Subcutaneous (rat): Not Available

Carcinogenicity: Not classified as a human carcinogen by IARC or ACGIH.

Reproductive Toxicity:

**Mutagenic/Embryo Toxicity:** The components of this product are not reported to cause mutagenic or embryonic effects in humans.
**Teratogenicity:** Not available.
**Reproductive Toxicity:** Not available.

### SECTION 12: ECOLOGICAL INFORMATION

No specific information is currently available on the effect of this product on plants or animals in the environment. The product may be harmful to contaminated terrestrial and aquatic plant life in large quantities. The following aquatic toxicity data currently available for components of this product:

**Propylene Glycol:**

- EC50 Green Algae (Desmodesmus subspicatus) 19000 mg/l 96 hours
- EC50 Water Flea (Daphnia magna) 43500 mg/l 48 hours
- LC 50 Fathead Minnow (Pimephales promelas) 46500 mg/l 96 hours
Triethanolamine:

EC50 Green Algae (Desmodesmus subspicatus) 512 mg/l 72 hours
NOEC Water Flea (Daphnia magna) 16 mg/l 21 days
LC 50 Fathead Minnow (Pimephales promelas) 11800 mg/l 96 hours

Environmental Exposure Controls: Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways.

No component of this product is known to have ozone depletion potential.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Instructions: Collect or dispose in sealed containers at licensed waste disposal site. Dispose in accordance with local, state and federal regulations.

SECTION 14: TRANSPORT INFORMATION

DOT Classification: Not regulated for Domestic Transport.
IATA Classification: Not regulated for International Transport.
IMDG Classification: Not regulated for International Water Transport.

SECTION 15: REGULATORY INFORMATION

U.S. Federal Regulations:
TSCA (TOXIC SUBSTANCE CONTROL ACT): Not regulated.
CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): Not listed.
SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT) 304: Not regulated.
SARA 311/312 HAZARD CATEGORIES: Not regulated.
SARA 313 REPORTABLE INGREDIENTS: Not listed.

STATE REGULATIONS:

California Prop 65:
This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

New Jersey RTK:
Glycerin (CAS 56-81-5)
Propylene Glycol (CAS 57-55-6)
Triethanolamine (CAS 102-71-6)

Massachusetts RTK:
Triethanolamine (CAS 102-71-6)

Pennsylvania RTK:
Propylene Glycol (CAS 57-55-6)
Triethanolamine (CAS 102-71-6)
INTERNATIONAL REGULATIONS:

<table>
<thead>
<tr>
<th>Country or Region</th>
<th>Inventory Name</th>
<th>Listed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australia Inventory of Chemical Substances</td>
<td>No</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substance List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substance List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>China:</td>
<td>Inventory of Existing Chemical Substances In China (IECSC)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (EINECS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
<td>No</td>
</tr>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>No</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>Yes</td>
</tr>
<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>Yes</td>
</tr>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>No</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substance Control Act (TSCA) Inventory</td>
<td>No</td>
</tr>
</tbody>
</table>

Note: A “Yes” indicates that all components comply with the inventory requirements administered by the governing country. A “No” indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country.

SECTION 16: OTHER INFORMATION

Issue Date: 08-25-2015

Version: 02

Disclaimer:
The information provided in this Safety Data Sheet (SDS) is accurate to the best of our knowledge. 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 processes.
SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Instant Cold Packs
Product Use: An economical, one time use disposable product that promotes faster healing for the treatment of bruises, cuts, lacerations, sprains, minor burns, sinus & tension headaches, insect bites and toothaches.
Product Codes: 4511-4512-4515
Responsible Party: Dynarex Corporation
10 Glenshaw Street
Orangeburg, NY 10962
Emergency or Information Phone No.: (888)-DYNAREX or 845-365-8200 (Mon – Fri).
At other times, contact the local Poison Control Center.

EMERGENCY OVERVIEW

Emergency Telephone Numbers:
Local Emergency Center

Health Hazards: Dry chemical of cold pack is an eye and skin irritant. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

Physical Hazards: Dry chemical is an oxidizer. Oxidizers can support combustion. Contact may increase flammability of other materials. Avoid contact with clothing and other combustible material.

- Physical Form: Solid/Liquid
- Appearance: White solid in water bag
- Odor: None

NFPA HAZARD CLASS:

<table>
<thead>
<tr>
<th>Category</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>1 (Slight)</td>
</tr>
<tr>
<td>Flammability</td>
<td>0 (Least)</td>
</tr>
<tr>
<td>Reactivity</td>
<td>3 (High)</td>
</tr>
<tr>
<td>Other</td>
<td>OXY (Oxidizer)</td>
</tr>
</tbody>
</table>
SECTION 2. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS
Keep out of reach of children. (S2)

PRIMARY ROUTE(S) OF ENTRY
Eye and Skin, if liquid escapes from sealed container.
No hazard expected with intact product.

EYES
Liquid content may cause irritation to the eyes; R36.
Avoid contact with eyes; S25

SKIN
Liquid content may be irritating to skin; R38.

INGESTION
Harmful if swallowed; R22.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
In case of accidental overdose, contact a Physician or Poison Control Center.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>HAZARDOUS COMPONENTS</th>
<th>% Weight</th>
<th>EXPOSURE GUIDELINE</th>
<th>Limits</th>
<th>Agency</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium Nitrate</td>
<td>40-70</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAS# 6484-52-2</td>
<td></td>
<td>Not Established</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OTHER COMPONENTS</th>
<th>% Weight</th>
<th>EXPOSURE GUIDELINE</th>
<th>Limits</th>
<th>Agency</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>30-60</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAS# 7732-18-5</td>
<td></td>
<td>Not Established</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: State, local or other agencies or advisory groups may have established more stringent limits. Consult an industrial hygienist or similar professional, or your local agencies, for further information.

SECTION 4. FIRST AID MEASURES

Eye: Move victim away from exposure and into fresh air. If irritation or redness develops, flush eyes with clean water and seek immediate medical attention. For direct contact, immediately hold eyelids apart and flush the affected eye(s) with clean water for at least 15 minutes. Seek medical attention.

Skin: Remove contaminated shoes and clothing, and flush affected area(s) with large amounts of water. If skin surface is damaged, apply a clean dressing and seek medical attention. If skin surface is not damaged, cleanse affected
area(s) thoroughly by washing with mild soap or water. If irritation or redness develops, seek medical attention.

Inhalation (Breathing): If respiratory symptoms or other symptoms of exposure develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek medical attention. If victim is not breathing, clear airway and immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.

Ingestion (Swallowing): If swallowed, seek emergency medical attention. If victim is drowsy or unconscious and vomiting, place on left side with the head down and do not give anything by mouth. If victim is conscious and alert and ingestion occurred within the last hour, vomiting should be induced for ingestion of large amounts (more than 5 ounces in an adult) under direction from a physician or poison center. If possible, do not leave victim unattended and observe closely for adequacy of breathing.

Note to Physicians: Nitrates in large doses may cause significant vasodilation and hypotension. Pre-existing ischemic heart disease may be aggravated by these effects. In large ingestions nitrates may cause methemoglobinemia. Methemoglobinemia should be suspected if cyanosis occurs. Methylene blue (1-2 mg/kg I.V. over several minutes) is an effective antidote for symptomatic methemoglobinemia.

SECTION 5. FIRE FIGHTING MEASURES

Flammable Properties:
- Flash Point: None
- OSHA Flammability Class: Not applicable
- LEL/UEL: No data
- Autoignition Temperature: No data

Unusual Fire & Explosion Hazards: Oxidizer. The dry chemical of this material is an oxidizer and may increase inflammability of any combustible substance. It is the nature of oxidizers to provide their own oxygen source; smothering a fire may be ineffective. Nitrate salts support combustion under certain conditions. Ammonium nitrate is capable of detonation if heated under confinement or if subjected to strong shocks. Organic or other easily oxidizable matter can sensitize it to a more readily explodable state. Do not allow product to evaporate to dryness, especially in contact with combustible materials.

Extinguishing Media: Use water only. Do not use dry chemical, carbon dioxide or foam.

Fire Fighting Instructions: For fires beyond the incipient stage, emergency responders in the immediate hazard area should wear bunker gear. When the potential chemical hazard is unknown, in enclosed or confined spaces, or when explicitly required by DOT, a self-contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8). Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Move undamaged containers from immediate hazard area if it can be done with minimal risk. Water spray may be useful in minimizing or dispersing vapors. Cool equipment exposed to fire with water, if it can be done with minimal risk.

SECTION 6. ACCIDENTAL RELEASE MEASURES

The dry chemical of this material is an oxidizer. Keep all sources of ignition and hot metal surfaces away from spill/release. The use of explosion-proof equipment is recommended.
Stay upwind and away from spill/release. Notify person down wind of spill/release, isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Wear appropriate protective equipment including respiratory protection as conditions warrant (see Section 8). Prevent spilled material from entering sewers, storm drains, other unauthorized treatment drainage systems, and natural waterways. Dike far ahead of spill for later recovery or disposal. Spilled material may be absorbed into an appropriate absorbent material. Notify appropriate federal, state, and local agencies. Immediate cleanup of any spill is recommended.

SECTION 7. HANDLING AND STORAGE

Handling: Do not enter confined spaces such as tanks or pits without following proper entry procedures such as ASTM D-4276 and 29CFR 1910.146. The use of appropriate respiratory protection is advised when concentrations exceed any established exposure limits (see Section 2 and 8). Wash thoroughly after handling. Do not wear contaminated clothing or shoes. Use good personal hygiene practice.

“Empty” containers retain residue and may be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury or death. Container should be disposed in an environmentally safe manner and in accordance with governmental regulations.

Before working on or in tanks which contain or have contained this material, refer to OSHA Regulations, ANSI Z49.1 and other governmental and industrial references pertaining to cleaning, welding, or other contemplated operations.

Storage: Use and store this material in cool, dry, well-ventilated areas away from heat and all sources of ignition. Post area “No Smoking or Open Flame.” Solution is corrosive to copper, copper alloys, lead, and zinc. Store to avoid contact with incompatible materials such as ordinary combustibles, flammable liquids, greases, and those materials, including other oxidizers, that could react with the oxidizer or catalyze its decomposition (see Section 10). Prohibit accumulation of combustible waste in storage areas. Combustible construction materials that may be in contact with oxidizers shall be protected with a compatible coating to prevent impregnation of the combustible materials by the oxidizers. Protect container(s) against physical damage.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls: If current ventilation practices are not adequate to minimize exposure, additional ventilation or exhaust systems may be required.

Personal Protective Equipment (PPE):

Respiratory: A NIOSH/MSHA approved air purifying respirator with a N95 filter may be used under conditions where airborne concentrations are expected to exceed exposure limits (see Section 2). Protection provided by air purifying respirators is limited (see manufacturer’s respirator selection guide). Use a positive pressure air supplied respirator if there is potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection. A respiratory protection program that meets OSHA’s 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator’s use.

Skin: The use of gloves impermeable to the specific material handled is advised to prevent skin contact, possible irritation, absorption, and skin damage (see glove manufacturer literature for information...
Eye/Face: Approved eye protection to safeguard against potential eye contact, irritation, or injury is recommended. Depending on conditions of use, a face shield may be necessary.

Other Protective Equipment: A source of clean water should be available in the work area for flushing eyes and skin. Impervious clothing should be worn as needed.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Note: Unless otherwise stated, values are determined at 20 °C (68 °F) and 760 mm Hg (1 atm).

- **Flash Point:** None
- **Flammable/Explosive Limits (%):** LEL/UEL: No data
- **Autoignition Temperature:** No data
- **Appearance:** White solid in water bag
- **Physical State:** solid/Liquid
- **Odor:** None
- **pH:** No data
- **Vapor Pressure (mm Hg):** No data
- **Boiling Point:** No data
- **Freezing/Melting Point:** No data
- **Solubility in Water:** 100%
- **Specific Gravity:** approx 1.3
- **Evaporation Rate (nBuAc=1):** No data

### SECTION 10. STABILITY AND REACTIVITY

- **Chemical Stability:** Stable under normal conditions of storage and handling. Dry chemical is an oxidizer and may promote combustion in other materials.

- **Conditions To Avoid:** This material may be an oxidizer. Do not heat above 250 °F. Do not let dry chemical or solution dry or crystallize in contact with organic, reactive, or combustible materials (see Sections 7).

- **Incompatible Materials:** Avoid contact with reactive, combustible, or organic materials, such as wood, grain, organic chemicals, acids, corrosive liquids, sulfur, flammable liquids, chlorates, permanganates, finely divided materials, charcoal, coke, cork, or sawdust. Avoid contact with other oxidizers. Contact with alkaline materials may liberate ammonia.

- **Hazardous Decomposition Products:** Material will not burn, but if involved in a fire, oxides of nitrogen may be generated. Exposure to heat may liberate ammonia fumes.

- **Hazardous Polymerization:** Will not occur.

### SECTION 11. TOXICOLOGICAL INFORMATION

No definitive information available on carcinogenicity, mutagenicity, target organs or developmental toxicity.
SECTION 12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION
Not determined.
CHEMICAL FATE INFORMATION
Not determined.

SECTION 13. DISPOSAL CONSIDERATIONS

This material, if discarded as produced, may be a RCRA “characteristic” hazardous waste due to the characteristic(s) of ignitability (D001). If the material is spilled to soil or water, characteristic testing of the contaminated materials is recommended. To assure proper disposal, consult with state and local regulations and disposal authorities.

SECTION 14. TRANSPORT INFORMATION

PROPER SHIPPING NAME: DOT CONSUMER COMMODITY
CLASS/DIVISION: ORM-D
PACKING GROUP: Not Applicable
LABELS: ORM-D
UN/ID#: NONE

PROPER SHIPPING NAME: IATA AMMONIUM NITRATE
CLASS DIVISION: 5.1
PACKING GROUP: III
LABELS: OXIDIZER
UN/ID#: UN1942

PROPER SHIPPING NAME: IMO AMMONIUM NITRATE, LIMITED QUANTITY
CLASS/DIVISION: 5.1
PACKING GROUP: III
LABELS: Not required, however, the words “LIMITED QUANTITY” should be marked on the unitized package.
UN/ID#: UN1942

SECTION 15. REGULATORY INFORMATION

This material contains the following chemicals subject to the reporting requirements of SARA 313 and 40 CFR 372.

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>CAS NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonia (includes anhydrous ammonia and aqueous ammonia from water dissociable ammonium salts and other sources; 10 percent of total aqueous ammonia is reportable under this listing)</td>
<td>7446-41-7</td>
</tr>
</tbody>
</table>
Water dissociable nitrate compounds: None

**Warning:** This material contains the following chemicals which are known to the State of California to cause cancer, birth defects or other reproductive harm, and are subject to the requirements of California Proposition 65 (CA Health & Safety Code Section 25249.5)

---None Known---

This material has not been identified as a carcinogen by NTP, IARC, or OSHA.

**EPA (CERCLA) Reportable Quantity:** --None--

### SECTION 16. OTHER INFORMATION

**Disclaimer:**
This Safety Data Sheet, which takes into consideration the requirements of Directive 76/768/EC and subsequent amendments and Directive 1999/45/EC plus subsequent amendments, has been prepared in accordance with Directive (EC) 1907/2006. It is believed to be correct and corresponds to the latest scientific/technical knowledge but all data, instructions, recommendations and/or suggestions are made without guarantee. No warranty, expressed or implied, is made and Dynarex Corp. assumes no legal responsibility or liability resulting from its use.
SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1 Product identifier
- Trade name: Activator for glow stick

- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- Application of the substance / the mixture TOY, PARTY ITEMS, DECORATION

- 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
  XIAMEN LONG AFTERGLOW CO., LTD
  NO. 1043, TONG JI ZHONG ROAD, TONG AN DISTRICT, XIAMEN, CHINA
  Tel: 0592-3675699
  E-mail: yolanda@glo-novelty.com
- Only Representative / other EU contact point Not available
- Further information obtainable from: XIAMEN LONG AFTERGLOW CO., LTD

- 1.4 Emergency telephone number:
  Yolanda Hu
  Tel: 0086-592-3675699

UNITED KINGDOM
National Poisons Information Service
Tel: +44 (0) 844 892 0111

- 1.5 Reference number: SHTY150400006214-SH; SHATY1507843501

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008
  The product is not classified according to the CLP regulation.

- Classification according to Directive 67/548/EEC or Directive 1999/45/EC Not applicable.
- Information concerning particular hazards for human and environment:
  The product does not have to be labelled due to the calculation procedure of Regulation (EC) No 1272/2008.

- Classification system:

- 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008 Not applicable
- Hazard pictograms Not applicable
- Signal word Not applicable
- Hazard-determining components of labelling: Not applicable
- Hazard statements Not applicable
- Precautionary statements Not applicable

- 2.3 Other hazards
- Results of PBT and vPvB assessment
  PBT: Not applicable
  vPvB: Not applicable

SECTION 3: Composition/information on ingredients

- 3.2 Mixtures
- Description:
  Mixture of the substances listed below with nonhazardous additions.
  For the wording of the listed risk phrases refer to section 16.

(Contd. on page 2)
Trade name: Activator for glow stick

- Composition:

<table>
<thead>
<tr>
<th>CAS:</th>
<th>Substance</th>
<th>EINECS:</th>
<th>Index number:</th>
</tr>
</thead>
<tbody>
<tr>
<td>131-11-3</td>
<td>dimethyl phthalate</td>
<td>205-011-6</td>
<td>008-003-00-9</td>
</tr>
<tr>
<td>7732-18-5</td>
<td>water</td>
<td>231-791-2</td>
<td></td>
</tr>
<tr>
<td>7722-84-1</td>
<td>hydrogen peroxide</td>
<td>231-765-0</td>
<td></td>
</tr>
</tbody>
</table>

Substance with a Community workplace exposure limit: 89.5%

-SECTION 4: First aid measures

- 4.1 Description of first aid measures
  - After inhalation: Supply fresh air; consult doctor in case of complaints.
  - After skin contact:
    - Immediately wash with water and soap and rinse thoroughly.
    - If skin irritation continues, consult a doctor.
  - After eye contact:
    - Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
  - After swallowing:
    - Rinse out mouth with water.
    - Never give anything by mouth to an unconscious person.
    - If symptoms persist consult doctor.

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

- 4.3 Indication of any immediate medical attention and special treatment needed
  - No further relevant information available.

-SECTION 5: Firefighting measures

- 5.1 Extinguishing media
  - Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

- 5.2 Special hazards arising from the substance or mixture: No further relevant information available.

- 5.3 Advice for firefighters
  - Protective equipment:
    - Wear fully protective suit.
    - Mouth respiratory protective device.

-SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
  - Wear protective equipment. Keep unprotected persons away.
  - Ensure adequate ventilation.
  - Use respiratory protective device against the effects of fumes/dust/aerosol.
  - Avoid contact with eyes.
  - Avoid contact with skin.

- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

- 6.3 Methods and material for containment and cleaning up:
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  - Dispose contaminated material as waste according to item 13.

(Contd. on page 3)
SECTION 7: Handling and storage

- 7.1 Precautions for safe handling
   Ensure good ventilation/exhaustion at the workplace.
   Keep receptacles tightly sealed.
   Keep away from heat and direct sunlight.
   Prevent formation of aerosols.
   Avoid contact with skin and eyes.
- Information about fire - and explosion protection:
  Protect from heat.
  Keep respiratory protective device available.
- 7.2 Conditions for safe storage, including any incompatibilities:
  - Requirements to be met by storerooms and receptacles:
    Store in a cool location.
    Store only in the original receptacle.
  - Information about storage in one common storage facility:
    Store away from foodstuffs.
    Store away from flammable substances.
- Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- 8.1 Control parameters
  - Ingredients with limit values that require monitoring at the workplace:
    131-11-3 dimethyl phthalate (99.5%)
    WEL (Great Britain) Short-term value: 10 mg/m³
      Long-term value: 5 mg/m³
    VME (France) Long-term value: 5 mg/m³
    7722-84-1 hydrogen peroxide (2.3%)
    MAK (Germany) Long-term value: 0.71 mg/m³, 0.5 ppm
    WEL (Great Britain) Short-term value: 2.8 mg/m³, 2 ppm
      Long-term value: 1.4 mg/m³, 1 ppm
    VME (France) Long-term value: 1.5 mg/m³, 1 ppm
  - DNELs: Not applicable
  - PNECs: Not applicable
  - Additional information: The lists valid during the making were used as basis.
- 8.2 Exposure controls
  - Based on composition shown in Section 3, the following measures are suggested for occupational safety measure:
    - Appropriate engineering controls: See Section 7 for information about design of technical facilities.
    - Personal protective equipment:
    - Respiratory protection: Suitable respiratory protective device recommended.
Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material:

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

Tightly sealed goggles

Environmental exposure controls:

Control measures must be made in accordance with Community environmental protection legislation.

---

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance: Liquid
- Form: Transparent
- Colour: Odourless
- Odour: Data not available.

pH-value: Data not available.

Change in condition:
- Melting point/Melting range: Data not available.
- Boiling point/Boiling range: Data not available.
- Freezing point: Data not available.

Flash point: Data not available.

- Flammability (solid, gaseous): Not applicable
- Auto-Ignition temperature: Data not available.

Decomposition temperature: Data not available.

Self-igniting: Product is not selfigniting.

Explosive properties: Product does not present an explosion hazard.

Explosion limits:
- Lower: Data not available.
- Upper: Data not available.

Oxidising properties: Data not available.

Vapour pressure: Data not available.

(Contd. on page 5)
SECTION 10: Stability and reactivity

- 10.1 Reactivity: No decomposition if used according to specification.
- 10.2 Chemical stability: Stable under recommended storage conditions.
- 10.3 Possibility of hazardous reactions: No dangerous reactions known.
- 10.4 Conditions to avoid: No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
- Acute toxicity

<table>
<thead>
<tr>
<th>LD/LC50 values relevant for classification:</th>
</tr>
</thead>
<tbody>
<tr>
<td>131-11-3 dimethyl phthalate</td>
</tr>
<tr>
<td>Oral LD50: 6800 mg/kg (rat)</td>
</tr>
<tr>
<td>Dermal LD50: &gt;23800 mg/kg (rabbit)</td>
</tr>
<tr>
<td>7722-84-1 hydrogen peroxide</td>
</tr>
<tr>
<td>Oral LD50: 376 mg/kg (rat)</td>
</tr>
<tr>
<td>Dermal LD50: 5000 mg/kg (rat)</td>
</tr>
<tr>
<td>Inhalative LC50/4 h: 2 mg/l (rat)</td>
</tr>
</tbody>
</table>

- Primary irritant effect:
  - Skin corrosion/irritation: Irritating effect possible.
  - Serious eye damage/irritation: Irritating effect possible.
  - Respiratory or skin sensitisation: Sensitization possible.

- Additional toxicological information:
  - The product is not subjected to classification according to the calculation method based on the EU Directives 67/548/EEC, 1999/45/EC and Regulation 1272/2008/EC.
  - Toxicokinetics, metabolism and distribution: Data not available
  - Acute effects (acute toxicity, irritation and corrosivity): Data not available
  - Repeated dose toxicity: Data not available
  - CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction): Data not available

(Contd. on page 6)
Safety data sheet

Trade name: Activator for glow stick

(Contd. of page 5)

SECTION 12: Ecological information

- 12.1 Toxicity
  - Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability: No further relevant information available.
- 12.3 Bioaccumulative potential: No further relevant information available.
- 12.4 Mobility in soil: No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.
- 12.6 Other adverse effects: No further relevant information available.
- 12.7 Additional ecological information:
  - General notes:
    - Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
    - Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

- 13.1 Waste treatment methods
  - Recommendation: Smaller quantities can be disposed of with household waste.
- 13.2 Uncleaned packaging:
  - Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

- 14.1 UN-Number: ADR, IMDG, IATA
  - Not applicable
- 14.2 UN proper shipping name: ADR, IMDG, IATA
  - Not applicable
- 14.3 Transport hazard class(es): ADR, IMDG, IATA
  - Class: Not applicable
- 14.4 Packing group: ADR, IMDG, IATA
  - Not applicable
- 14.5 Environmental hazards
  - Marine pollutant: No
- 14.6 Special precautions for user: Not applicable.
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable.
- 14.8 UN "Model Regulation": -

(Contd. on page 7)
SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- MAK (German Maximum Workplace Concentration)
  7722-84-1 hydrogen peroxide
- National regulations:
  - Waterhazard class: Water hazard class 1 (Self assessment): slightly hazardous for water.
- Other regulations, limitations and prohibitive regulations
- SVHC Candidate List of REACH Regulation Annex XIV Authorisation (17/12/2014)
  None of the ingredients is listed.
- REACH Regulation Annex XVII Restriction (2/3/2015)
  None of the ingredients is listed.
- REACH Regulation Annex XIV Authorization List (14/8/2014)
  None of the ingredients is listed.

- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

- Relevant phrases
  H271 May cause fire or explosion; strong oxidiser.
  H302 Harmful if swallowed.
  H314 Causes severe skin burns and eye damage.
  H332 Harmful if inhaled.
  R20/22 Harmful by inhalation and if swallowed.
  R35 Causes severe burns.
  R5 Heating may cause an explosion.
  R8 Contact with combustible material may cause fire.

**********************************************************************************************************************************************


DISCLAIMER OF LIABILITY
The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

- Abbreviations and acronyms:
  - ADR: Accident de transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  - IMDG: International Maritime Code for Dangerous Goods
  - IATA: International Air Transport Association
  - GHS: Globally Harmonized System of Classification and Labelling of Chemicals
  - EINECS: European Inventory of Existing Commercial Chemical Substances
  - ELINCS: European List of Notified Chemical Substances
  - CAS: Chemical Abstracts Service (division of the American Chemical Society)
  - DNEL: Derived No-Effect Level (REACH)
  - PNEC: Predicted No-Effect Concentration (REACH)
  - LC50: Lethal concentration, 50 percent
  - LD50: Lethal dose, 50 percent
  - Ox.1: Flammable Liquids, Hazard Category 1
  - Acute Tox. 4: Acute toxicity, Hazard Category 4
  - Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A

(Cond. on page 8)
<table>
<thead>
<tr>
<th>Trade name: Activator for glow stick</th>
</tr>
</thead>
</table>

(Continued from page 7)

End of document
SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier
- Trade name: Chemiluminescer for green glow stick

1.2 Relevant identified uses of the substance or mixture and uses advised against
- Application of the substance / the mixture TOY, PARTY ITEMS, DECORATION

1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier: XIAMEN LONG AFTERGLOW CO., LTD
  NO. 1043, TONG JI ZHONG ROAD, TONG AN DISTRICT, XIAMEN, CHINA
  Tel: 0592-3675699
  E-mail: yolanda@gle-novelty.com
- Only Representative / other EU contact point Not available
- Further information obtainable from: XIAMEN LONG AFTERGLOW CO., LTD

1.4 Emergency telephone number:
- Yolanda Hu
  Tel: 0086-592-3675699

UNITED KINGDOM
National Poisons Information Service
Tel: +44 (0) 844 892 0111

1.5 Reference number: SHTY150400006246-SH: SHATY1507841901

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008

GHS07

Acute Tox. 4 H302 Harmful if swallowed.
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Xn: Harmful
R22: Harmful if swallowed.

Xi: Irritant
R36/38: Irritating to eyes and skin.

Information concerning particular hazards for human and environment:
The product has to be labelled due to the calculation procedure of Regulation (EC) No 1272/2008.

Classification system:

2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008
The product is classified and labelled according to Regulation (EC) No 1272/2008.
- Hazard pictograms

GHS07
- Signal word Warning

(Contd. on page 2)
Safety data sheet

Trade name: Chemiluminescer for green glow stick

- Hazard-determining components of labelling:
  butyl benzoate

- Hazard statements
  H302 Harmful if swallowed.
  H315 Causes skin irritation.
  H339 Causes serious eye irritation.

- Precautionary statements
  P101 If medical advice is needed, have product container or label at hand.
  P102 Keep out of reach of children.
  P103 Read label before use.
  P280 Wear protective gloves/protective clothing/eye protection/face protection.
  P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  P321 Specific treatment (see on this label).
  P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
  P332+P313 If skin irritation occurs: Get medical advice/attention.
  P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- 2.3 Other hazards
- Results of PBT and vPvB assessment
- PBT: Not applicable
- vPvB: Not applicable

SECTION 3: Composition/information on ingredients

- 3.2 Mixtures
- Description:
  Mixture of the substances listed below with nonhazardous additions.
  For the wording of the listed risk phrases refer to section 16.

- Composition:
  CAS: 136-50-7 butyl benzoate
  EINECS: 205-252-7
  Xi R 22, X R 36/38
  Bi(2,3,5-trichloro-6-[(pentoxoxy)carbonyl]phenyl) oxalate
  CAS: 75203-51-9 14,0%
  EINECS: 278-124-1
  Xi R 36/37/38
  Skin Irrit. 2, H315: Eye Irrit. 2, H339: STOT SE 3, H335
  CAS: 10075-85-1 0,6%
  Xi R 36/37/38
  9,10-Bis(phenylvinyl)anthracene

SECTION 4: First aid measures

- 4.1 Description of first aid measures
- General information:
  Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- After inhalation:
  Supply fresh air and be sure call for a doctor.
  In case of unconsciousness place patient stably in side position for transportation.
- After skin contact:
  Immediately wash with water and soap and rinse thoroughly.
  If skin irritation continues, consult a doctor.
- After eye contact:
  Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing:
  Rinse out mouth with water.
Trade name: Chemiluminescer for green glow stick

Never give anything by mouth to an unconscious person.
Call for a doctor immediately.

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

4.3 Indication of any immediate medical attention and special treatment needed
No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

5.2 Special hazards arising from the substance or mixture No further relevant information available.

5.3 Advice for firefighters
Protective equipment:
Wear fully protective suit.
Wear self-contained respirator protective device.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Keep away from ignition sources.
Use respiratory protective device against the effects of fumes/dust/aerosol.
Avoid contact with eyes.
Avoid contact with skin.

6.2 Environmental precautions: Do not allow to enter sewers/surface or ground water.

6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

6.4 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 disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Ensure good ventilation/exhaustion at the workplace.
Keep receptacles tightly sealed.
Keep away from heat and direct sunlight.
Prevent formation of aerosols.
Avoid contact with skin and eyes.
Information about fire - and explosion protection: Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities:
Requirements to be met by storerooms and receptacles:
Store in a cool location.
Store only in the original receptacle.
Information about storage in one common storage facility:
Store away from foodstuffs.
Store away from flammable substances.
Store away from oxidising agents.
SELECTION 8: Exposure controls/personal protection

8.1 Control parameters
Ingredients with limit values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- DNELs: Not applicable
- PNECs: Not applicable

Additional information: The limits valid during the making were used as basis.

8.2 Exposure controls
Based on composition shown in Section 3, the following measures are suggested for occupational safety measures:
Appropriate engineering controls:
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
See Section 7 for information about design of technical facilities.

Personal protective equipment:
Respiratory protection:
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
Protection of hands:
Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradations.

Material of gloves:
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material:
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:
Tightly sealed goggles

(Contd. on page 5)
Safety data sheet

Printing date 21.05.2015
Revision: 07.05.2015

Trade name: Chemiluminescer for green glow stick

Environmental exposure controls:
Control measures must be made in accordance with Community environmental protection legislation.

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
  - Appearance:
    - Form: Liquid
    - Colour: Green
    - Odour: Odourless
    - Odour threshold: Data not available.
  - pH-value: Data not available.
  - Change in condition
    - Melting point/Melting range: Data not available.
    - Boiling point/Boiling range: Data not available.
  - Freezing point: Data not available.
  - Flash point: Data not available.
  - Flammability (solid, gaseous): Not applicable
  - Auto-Ignition temperature: Data not available.
  - Decomposition temperature: Data not available.
  - Self-igniting: Product is not self-igniting.
  - Explosive properties: Product does not present an explosion hazard.
  - Explosion limits:
    - Lower: Data not available.
    - Upper: Data not available.
    - Oxidising properties: Data not available.
  - Vapour pressure: Data not available.
  - Density:
    - Relative density: Data not available.
    - Vapour density: Data not available.
  - Evaporation rate: Data not available.
  - Solubility in / Miscibility with water: Data not available.
  - Partition coefficient (n-octanol/water): Data not available.
  - Viscosity:
    - Dynamic: Data not available.
    - Kinematic: Data not available.

- 9.2 Other information
  No further relevant information available.

SECTION 10: Stability and reactivity

- 10.1 Reactivity
  No decomposition if used according to specification.

- 10.2 Chemical stability
  Stable under recommended storage conditions.

- 10.3 Possibility of hazardous reactions
  No dangerous reactions known.

- 10.4 Conditions to avoid
  No further relevant information available.

- 10.5 Incompatible materials: Strong oxidizing agents, Strong bases

(Contd. on page 6)
Safety data sheet

Trade name: Chemiluminescer for green glow stick

10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects
11.2 Acute toxicity
11.3 LD/LC50 values relevant for classification:

<table>
<thead>
<tr>
<th>Category</th>
<th>Value</th>
<th>Species</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>136-60-7</td>
<td>butyl benzoate</td>
</tr>
<tr>
<td>LD50</td>
<td>735 mg/kg (rat)</td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td>4000 mg/kg (rabbit)</td>
<td></td>
</tr>
</tbody>
</table>

- Primary irritant effect:
- Skin corrosion/irritation Irritant to skin and mucous membranes.
- Serious eye damage/irritation Irritating effect.
- Respiratory or skin sensitisation Sensitization possible.

Additional toxicological information:
The product is not subjected to classification according to the calculation method based on the EU Directives 67/548/EEC, 1999/45/EC and Regulation 1272/2008/EC.
- Harmful
- Irritant
- Toxicokinetics, metabolism and distribution Data not available
- Acute effects (acute toxicity, irritation and corrosivity) Data not available
- Repeated dose toxicity Data not available
- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction) Data not available

SECTION 12: Ecological information

12.1 Toxicity
- Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability: No further relevant information available.

12.3 Bioaccumulative potential: No further relevant information available.

12.4 Mobility in soil: No further relevant information available.

12.5 Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

12.6 Other adverse effects: No further relevant information available.

12.7 Additional ecological information:
- General notes:
  Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
  Do not allow product to reach ground water, water course or sewage system.
  Danger to drinking water if even small quantities leak into the ground.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
13.2 Recommendation
- Must not be disposed together with household garbage. Do not allow product to reach sewage system.

(Contd. on page 7)
Safety data sheet

Printing date 21.05.2015
Revision: 07.05.2015

Trade name: Chemiluminescer for green glow stick

- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

(SECTION 14: Transport information)

- 14.1 UN-Number
- ADR, IMDG, IATA: Not applicable
- 14.2 UN proper shipping name
- ADR, IMDG, IATA: Not applicable
- 14.3 Transport hazard class(es)
- ADR, IMDG, IATA: Not applicable
- Class: Not applicable
- 14.4 Packing group
- ADR, IMDG, IATA: Not applicable
- 14.5 Environmental hazards
- Marine pollutant: No
- 14.6 Special precautions for user: Not applicable
- 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable
- UN "Model Regulation":

(SECTION 15: Regulatory information)

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

- MAK (German Maximum Workplace Concentration)
- None of the ingredients is listed.
- National regulations:
- Water hazard class: Water hazard class 2 (Self-assessment); hazardous for water.
- Other regulations, limitations and prohibitive regulations
- SVHC Candidate List of REACH Regulation Annex XIV Authorisation (17/12/2014)
- None of the ingredients is listed.
- REACH Regulation Annex XVII Restriction (2/3/2015)
- None of the ingredients is listed.
- REACH Regulation Annex XIV Authorisation List (14/8/2014)
- None of the ingredients is listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

(SECTION 16: Other information)

Relevant phrases
H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
R22 Harmful if swallowed.
R36/38 Irritating to eyes and skin.

(Cond. on page 6)
Safety data sheet

Trade name: Chemiluminescer for green glow stick


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Abbreviations and acronyms:
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

End of document
SANFACON INDUSTRIES
MATERIAL SAFETY DATA SHEET
January, 2008

TOWELETTE, PRE-MOISTENED, LEMON-SCENTED

Section I: Identification

Identity (As used on Label and List):
MOIST TOWELETTE WITH LEMON FRAGRANCE

Ingredients: 98.8% water
1% lemon fragrance
0.01% BZK (Benzalkonium)
0.01% soap

Physical Description: A pre-moistened towelette made with virgin paper, individually packaged in a moisture-proof pouch.

Manufacturer's Name:
SANFACON INDUSTRIES INC.

Address:
1980 5th street
St-Romuald, Québec, Canada
G6W 5M6

Section II: Hazardous Ingredients

Hazardous components: N/A

Section III: Physical/Chemical Characteristics

Boiling Point: N/A  Specific Gravity: +/– 1.0
Vapour Pressure: N/A  Melting Point: N/A
Vapour Density: N/A  Evaporation Rate: N/A

Solubility in Water: Complete
Appearance and Colour: Clear liquid with lemon scent
**Section IV: Fire and Explosion Hazard Data**

Flash Point: N/A  Flammable Limits: N/A  
Extinguishing Media: N/A

Special Fire Fighting Procedures: NONE  
Unusual Fire & Explosion Hazards: NONE

**Section V: Health Hazard Data**

Routes of Entry: Inhalation: N/A  
Skin: Topically applied  
Ingestion: N/A

Health Hazards: N/A  
Carcinogenicity: N/A

Information/Emergency: Monday through Friday, 8 a.m. to 5 p.m., (800) 463-5591 or contact the local Poison Control Centre.

Caution: If accidentally splashed in eyes, rinse thoroughly with cold water; may cause discomfort. No need for first aid if swallowed or inhaled.

Signs and Symptoms of Exposure: 
SAFE AS A TOPICAL SKIN CLEANSER

**Disclaimer:**
Sanfacon acknowledges that the information contained herein is assumed accurate and complete, and illustrates the product to the best of their knowledge. No warranty, expressed or implied, is made and Sanfacon assumes no legal responsibility or liability resulting from its use.
SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
Product form: Mixture
Trade name: Medicaine® Sting and Bite Relief

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture: OTC drug used as a topical analgesic
Use of the substance/mixture: For professional use only

1.3. Details of the supplier of the safety data sheet
James Alexander Corporation
845 Route 94 Blairstown
NJ 07825
Tel: (908) 362-9266

Note: The CHEMTREC emergency number is to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure, or accident involving chemicals. All non-emergency questions should be directed to JAC at (908) 362-9266.

1.4. Emergency telephone number
Emergency number: Chemtrec (800) 424-9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
GHS-US classification
Flam. Liq. 2 H225
Eye Irrit. 2A H319
STOT SE 3 H335
STOT SE 3 H336

2.2. Label elements
GHS-US labelling
Hazard pictograms (GHS-US):

GHS02
GHS07

Signal word (GHS-US): Danger
Hazard statements (GHS-US): H225 - Highly flammable liquid and vapour
H319 - Causes serious eye irritation
H335 - May cause respiratory irritation
H336 - May cause drowsiness or dizziness

Precautionary statements (GHS-US): P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking
P233 - Keep container tightly closed
P240 - Ground/bond container and receiving equipment
P241 - Use explosion-proof electrical, lighting, ventilating equipment
P242 - Use only non-sparking tools
P243 - Take precautionary measures against static discharge
P261 - Avoid breathing dust, fume, mist, spray, vapours
P264 - Wash hands thoroughly after handling
P271 - Use only outdoors or in a well-ventilated area
P280 - Wear eye protection, protective clothing, protective gloves
P303+P361+P330 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340 - IF INHALED: remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+P351+P335 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P312 - Call a POISON CENTER/doctor/physician if you feel unwell
P337+P313 - If eye irritation persists: get medical advice/attention
P370+P378 - In case of fire: Use dry chemical, foam, carbon dioxide for extinction
P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P403+P235 - Store in a well-ventilated place. Keep cool
P405 - Store locked up
P501 - Dispose of contents/container to comply with applicable local, national and international regulation.

2.3. Other hazards
No additional information available

2.4. Unknown acute toxicity (GHS-US)
No data available

SECTION 3: Composition/information on ingredients

3.1. Substance
Not applicable
Full text of H-phrases: see section 16

3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyethylene glycol</td>
<td>(CAS No) 25322-68-3</td>
<td>50 - 55</td>
<td>STOT SE 3, H335</td>
</tr>
<tr>
<td>L-Menthol</td>
<td>(CAS No) 2216-51-5</td>
<td>1</td>
<td>Skin Irrit. 2, H315, Eye Irrit. 2A, H319</td>
</tr>
</tbody>
</table>

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. If breathing stops, give artificial respiration. In case of breathing difficulties administer oxygen by trained personnel. Seek medical attention immediately.

First-aid measures after skin contact: Immediately flush skin with plenty of water for at least 15 minutes. Remove/Take off immediately all contaminated clothing. Do not rub the skin and eyes after direct contact with the product. Seek medical attention immediately. Wash contaminated clothing before reuse.

First-aid measures after eye contact: In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately get medical attention.

First-aid measures after ingestion: Contact a Poison Control Center immediately. Give no more than 2 glasses of water and induce vomiting by giving 30 cc (2 tablespoons) of syrup of ipecac. If victim is a child, give no more than 1 glass of water and 15cc (1 tablespoon) syrup of ipecac. If syrup of ipecac is unavailable, give 2 glasses of water and induce vomiting by touching finger to back of victim’s throat. Do not give anything by mouth to an unconscious or convulsing person. Get immediate medical attention. Immediately call a POISON CENTER or doctor/physician.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation: May cause respiratory irritation. May cause drowsiness or dizziness. Depression of the central nervous system, headaches, dizziness, drowsiness, loss of coordination.

Symptoms/injuries after skin contact: Repeated or prolonged skin contact may cause irritation.

Symptoms/injuries after eye contact: Causes serious eye irritation.

Symptoms/injuries after ingestion: Irritating to the gastrointestinal tract. May cause abdominal pain and vomiting (sometimes bloody). Ingestion may cause central nervous system depression, low blood pressure, rapid heart beat and liver damage. Early to moderate central nervous system depression may be evidenced by giddiness, headache, dizziness and nausea. In extreme cases, unconsciousness, respiratory depression and death may occur. Liver damage may be evidenced by loss of appetite, jaundice (yellowish skin color) and sometimes pain in the upper abdomen on the right side.

4.3. Indication of any immediate medical attention and special treatment needed

Individuals with pre-existing skin disorders, eye problems, or impaired respiratory function may be more susceptible to the effects of overexposure.
** SECTION 5: Firefighting measures **

### 5.1. Extinguishing media
- **Suitable extinguishing media**: Alcohol resistant foam. Dry powder. Carbon dioxide. Sand.
- **Unsuitable extinguishing media**: Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture
- **Fire hazard**: Highly flammable liquid and vapour.
- **Explosion hazard**: May form flammable/explosive vapour-air mixture.
- **Reactivity**: Thermal decomposition generates: Corrosive vapours. Reacts violently with acids. An exothermic reaction may occur.

### 5.3. Advice for firefighters
- **Firefighting instructions**: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- **Protective equipment for firefighters**: Containers may swell and burst during a fire due to internal pressure caused by heat. Vapours are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapours. Alcohols burn with a pale blue flame which may be extremely hard to see under normal lighting conditions. Personnel may be able to feel the heat of the fire without seeing flames. Extreme caution must be exercised in fighting alcohol fires.

** SECTION 6: Accidental release measures **

### 6.1. Personal precautions, protective equipment and emergency procedures
- **General measures**: Eliminate all ignition sources if safe to do so. Use special care to avoid static electric charges. No naked lights. No smoking. Stop leak if safe to do so. No action shall be taken involving any personal risk or without suitable training. Wear protective clothing. For further information refer to section 8: Exposure-controls/personal protection.

#### 6.1.1. For non-emergency personnel
- **Emergency procedures**: Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders
- **Protective equipment**: Equip cleanup crew with proper protection.
- **Emergency procedures**: Ventilate area.

### 6.3. Methods and material for containment and cleaning up
- **Methods for cleaning up**: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Consult the appropriate authorities about waste disposal. Ensure all national/local regulations are observed.

### 6.4. Reference to other sections
- See Heading 8: Exposure controls and personal protection.

** SECTION 7: Handling and storage **

### 7.1. Precautions for safe handling
- **Additional hazards when processed**: Handle empty containers with care because residual vapours are flammable.
- **Precautions for safe handling**: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Personal protective equipment should be selected based upon the conditions under which this product is handled or used. Use personal protective equipment as required. Provide good ventilation in process area to prevent formation of vapour. Do not breathe gas, fumes, vapour or spray. No naked lights. No smoking. Use only non-sparking tools. Never use pressure to empty container. Ground/bond container and receiving equipment. Take care to allow internal pressure to escape from container before releasing closures. Remove closure carefully; internal pressure may be present. Keep closure up to prevent leakage. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
- **Hygiene measures**: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.
7.2. Conditions for safe storage, including any incompatibilities

Technical measures: Use explosion-proof machinery, apparatus, ventilation facilities, tools etc. Ensure the ventilation system is regularly maintained and tested. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of mists and/or vapors below the recommended exposure limits. Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. A washing facility/water for eye and skin cleaning purposes should be present. Comply with applicable regulations.

Storage conditions: Keep only in the original container in a cool well ventilated place. Keep in fireproof place. Keep container tightly closed. Protect containers against physical damage. Detached outside storage is preferable. Inside storage should be in an NFPA approved flammable liquids storage room or cabinet. Store in corrosion-proof area at temperatures below 77 °F (25 °C). Store away from direct sunlight or other heat sources.

Incompatible materials: Avoid mixing with acids, most common metals, strong oxidizing agents, brass, zinc, chlorine, aluminum, copper, bronze, mercury, dimethyl sulfate and acetyl chloride.

Storage temperature: < 25 °C Store at temperatures below 77 °F (25 °C)

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Isopropyl alcohol (67-63-0)</th>
<th>USA ACGIH ACGIH TWA (ppm)</th>
<th>200 ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>USA ACGIH ACGIH STEL (ppm)</td>
<td>400 ppm</td>
<td></td>
</tr>
<tr>
<td>USA OSHA OSHA PEL (TWA) (mg/m³)</td>
<td>980 mg/m³</td>
<td></td>
</tr>
<tr>
<td>USA OSHA OSHA PEL (TWA) (ppm)</td>
<td>400 ppm</td>
<td></td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Appropriate engineering controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of mists and/or vapors below the recommended exposure limits. Use explosion-proof ventilating equipment.

Personal protective equipment: Avoid all unnecessary exposure. A hazard assessment of the work area for PPE requirements should be conducted by a qualified professional pursuant to OSHA regulations. For certain operations, additional Personal Protection Equipment (PPE) may be required. Protective goggles. Gloves. Protective clothing.

Hand protection: Wear protective gloves, rubber gloves. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Eye protection: Chemical goggles or face shield.

Skin and body protection: Wear suitable protective clothing. Chemical resistant safety shoes.

Respiratory protection: Wear a self-contained breathing apparatus and appropriate personal protective equipment (PPE). Suggestions provided in this section for exposure control and specific types of protective equipment are based on readily available information. Users should consult with the specific manufacturer to confirm the performance of their protective equipment. Specific situations may require consultation with industrial hygiene, safety, or engineering professionals. Care must be taken to assure that any respirator chosen is capable of protecting the user from both ammonia and ethyl alcohol vapors.

Other information: Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Physical state | Liquid |
| Appearance     | Clear. |
| Colour         | Green. |
| Odour          | Odor of isopropyl alcohol, residual odor of menthol. |
Medicaine® Sting and Bite Relief  
Safety Data Sheet  
according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>8.5</td>
</tr>
<tr>
<td>Relative evaporation rate (butyl acetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>No data available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>&gt; 35 °C (&gt;95 °F)</td>
</tr>
<tr>
<td>Flash point</td>
<td>16.6 °C (62 °F)</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapour density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Density</td>
<td>1.029 (Specific Gravity @ 25 °C)</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble in water.</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Log Kow</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive limits</td>
<td>No data available</td>
</tr>
</tbody>
</table>

9.2. Other information  
No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity  
Thermal decomposition generates: Corrosive vapours. Reacts violently with acids. An exothermic reaction may occur.

10.2. Chemical stability  
Not established.

10.3. Possibility of hazardous reactions  
Not established.

10.4. Conditions to avoid  
Direct sunlight. Extremely high or low temperatures. Open flame.

10.5. Incompatible materials  
Avoid mixing with acids, most common metals, strong oxidizing agents, brass, zinc, chlorine, aluminum, copper, bronze, mercury, dimethyl sulfate and acetyl chloride.

10.6. Hazardous decomposition products  

SECTION 11: Toxicological information

11.1. Information on toxicological effects  
Acute toxicity : Not classified  
(Based on available data, the classification criteria are not met)

<table>
<thead>
<tr>
<th>Compound</th>
<th>LD50 oral rat</th>
<th>LD50 dermal rabbit</th>
<th>LC50 inhalation rat (ppm)</th>
<th>ATE CLP (oral)</th>
<th>ATE CLP (dermal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl alcohol (67-63-0)</td>
<td>4396 mg/kg</td>
<td>12800 mg/kg</td>
<td>16000 ppm (Exposure time: 8 h)</td>
<td>4396.000 mg/kg bodyweight</td>
<td>12800.000 mg/kg bodyweight</td>
</tr>
</tbody>
</table>
**Medicaine® Sting and Bite Relief**  
Safety Data Sheet  
according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

### L-Menthol (2216-51-5)

<table>
<thead>
<tr>
<th>Test</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>3300 mg/kg</td>
</tr>
<tr>
<td>ATE CLP (oral)</td>
<td>3300.000 mg/kg bodyweight</td>
</tr>
</tbody>
</table>

### Polyethylene glycol (25322-68-3)

<table>
<thead>
<tr>
<th>Test</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 dermal rabbit</td>
<td>&gt; 20 ml/kg</td>
</tr>
</tbody>
</table>

**Skin corrosion/irritation**: Not classified  
(Based on available data, the classification criteria are not met)  
**pH**: 8.5

**Serious eye damage/irritation**: Causes serious eye irritation.  
**pH**: 8.5

**Respiratory or skin sensitisation**: Not classified  
(Based on available data, the classification criteria are not met)

**Germ cell mutagenicity**: Not classified  
(Based on available data, the classification criteria are not met)

**Carcinogenicity**: Not classified  
(Based on available data, the classification criteria are not met)

**Isopropyl alcohol (67-63-0)**

<table>
<thead>
<tr>
<th>Test</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>IARC group</td>
<td>3 - Not classifiable</td>
</tr>
</tbody>
</table>

**Reproductive toxicity**: Not classified  
(Based on available data, the classification criteria are not met)

**Specific target organ toxicity (single exposure)**: May cause respiratory irritation. May cause drowsiness or dizziness.

**Specific target organ toxicity (repeated exposure)**: Not classified  
(Based on available data, the classification criteria are not met)

**Aspiration hazard**: Not classified  
(Based on available data, the classification criteria are not met)

**Potential Adverse human health effects and symptoms**: Based on available data, the classification criteria are not met.

**Symptoms/injuries after inhalation**: May cause respiratory irritation. May cause drowsiness or dizziness. Depression of the central nervous system, headaches, dizziness, drowsiness, loss of coordination.

**Symptoms/injuries after skin contact**: Repeated or prolonged skin contact may cause irritation.

**Symptoms/injuries after eye contact**: Causes serious eye irritation.

**Symptoms/injuries after ingestion**: Irritating to the gastrointestinal tract. May cause abdominal pain and vomiting (sometimes bloody). Ingestion may cause central nervous system depression, low blood pressure, rapid heart beat and liver damage. Early to moderate central nervous system depression may be evidenced by giddiness, headache, dizziness and nausea. In extreme cases, unconsciousness, respiratory depression and death may occur. Liver damage may be evidenced by loss of appetite, jaundice (yellowish skin color) and sometimes pain in the upper abdomen on the right side.

### SECTION 12: Ecological information

#### 12.1. Toxicity

**Isopropyl alcohol (67-63-0)**

<table>
<thead>
<tr>
<th>Test</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fishes 1</td>
<td>9640 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>13299 mg/l (Exposure time: 48 h - Species: Daphnia magna)</td>
</tr>
<tr>
<td>LC50 fish 2</td>
<td>11130 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])</td>
</tr>
</tbody>
</table>

**L-Menthol (2216-51-5)**

<table>
<thead>
<tr>
<th>Test</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fishes 1</td>
<td>18.9 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])</td>
</tr>
</tbody>
</table>

#### 12.2. Persistence and degradability

**Medicaine® Sting and Bite Relief**

<table>
<thead>
<tr>
<th>Test</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Persistence and degradability</td>
<td>Not established.</td>
</tr>
</tbody>
</table>
12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Medicaine® Sting and Bite Relief</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bioaccumulative potential</td>
</tr>
<tr>
<td>Isopropyl alcohol (67-63-0)</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information: Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations: Dispose in a safe manner in accordance with local/national regulations. Do not re-use empty containers. Ensure all national/local regulations are observed. Consult the appropriate authorities about waste disposal.

Additional information: Handle empty containers with care because residual vapours are flammable.

Ecology - waste materials: Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT

Transport document description: UN1993 Flammable liquids, n.o.s. (contains isopropanol), 3, II

UN-No.(DOT): 1993

DOT NA no.: UN1993

DOT Proper Shipping Name: Flammable liquids, n.o.s. (contains isopropanol)

Department of Transportation (DOT) Hazard Classes: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Hazard labels (DOT): 3 - Flammable liquid

DOT Symbols: G - Identifies PSN requiring a technical name

Packing group (DOT): II - Medium Danger

DOT Special Provisions (49 CFR 172.102): IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 °C (1.1 bar at 122 °F), or 130 kPa at 55 °C (1.3 bar at 131 °F) are authorized. T7 - 178.274(d)(2) Normal........... 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / (1 + a (tr - tf)) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.

TP8 - A portable tank having a minimum test pressure of 1.5 bar (150 kPa) may be used when the flash point of the hazardous material transported is greater than 0 °C (32 °F).

TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.

DOT Packaging Exceptions (49 CFR 173.xxx): 150

DOT Packaging Non Bulk (49 CFR 173.xxx): 202

DOT Packaging Bulk (49 CFR 173.xxx): 242

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27): 5 L

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75): 60 L
DOT Vessel Stowage Location: B - (i) The material may be stowed “on deck” or “under deck” on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) “On deck only” on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.

Additional information
Other information: No supplementary information available.

ADR
Transport document description:

Transport by sea
No additional information available

Air transport
No additional information available

SECTION 15: Regulatory information
15.1. US Federal regulations
Isopropyl alcohol (67-63-0)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on SARA Section 313 (Specific toxic chemical listings)
EPA TSCA Regulatory Flag: T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.
SARA Section 313 - Emission Reporting: 1.0 % (only if manufactured by the strong acid process, no supplier notification)

L-Menthol (2216-51-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Polyethylene glycol (25322-68-3)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations
CANADA
Isopropyl alcohol (67-63-0)
Listed on the Canadian DSL (Domestic Substances List) inventory.
WHMIS Classification: Class B Division 2 - Flammable Liquid
Class D Division 2 Subdivision B - Toxic material causing other toxic effects

L-Menthol (2216-51-5)
Listed on the Canadian DSL (Domestic Substances List) inventory.

Polyethylene glycol (25322-68-3)
Listed on the Canadian DSL (Domestic Substances List) inventory.

EU-Regulations
Isopropyl alcohol (67-63-0)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances.

L-Menthol (2216-51-5)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances.

Polyethylene glycol (25322-68-3)
Listed on the EU - No-Longer Polymers List (67/548/EEC)

Classification according to Regulation (EC) No. 1272/2008 [CLP]
Not classified

Classification according to Directive 67/548/EEC or 1999/45/EC
Not classified
15.2.2. National regulations

**Isopropyl alcohol (67-63-0)**
- Listed on the AICS (the Australian Inventory of Chemical Substances)
- Listed on Inventory of Existing Chemical Substances (IECSC)
- Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.
- Listed on Industrial Safety and Health Law Substances (ISHL)
- Listed on the Korean ECL (Existing Chemical List) inventory.
- Listed on New Zealand - Inventory of Chemicals (NZIoC)
- Listed on Inventory of Chemicals and Chemical Substances (PICCS)

**L-Menthol (2216-51-5)**
- Listed on the AICS (the Australian Inventory of Chemical Substances)
- Listed on Inventory of Existing Chemical Substances (IECSC)
- Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.
- Listed on Industrial Safety and Health Law Substances (ISHL)
- Listed on New Zealand - Inventory of Chemicals (NZIoC)
- Listed on Inventory of Chemicals and Chemical Substances (PICCS)

**Polyethylene glycol (25322-68-3)**
- Listed on the AICS (the Australian Inventory of Chemical Substances)
- Listed on Inventory of Existing Chemical Substances (IECSC)
- Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.
- Listed on the Korean ECL (Existing Chemical List) inventory.
- Listed on New Zealand - Inventory of Chemicals (NZIoC)
- Listed on Inventory of Chemicals and Chemical Substances (PICCS)

15.3. US State regulations
No additional information available

**SECTION 16: Other information**

Other information: None.

Full text of H-phrases: see section 16:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye Irrit. 2A</td>
<td>Serious eye damage/eye irritation, Category 2A</td>
</tr>
<tr>
<td>Flam. Liq. 2</td>
<td>Flammable liquids Category 2</td>
</tr>
<tr>
<td>Skin Irrit. 2</td>
<td>Skin corrosion/irritation Category 2</td>
</tr>
<tr>
<td>STOT SE 3</td>
<td>Specific target organ toxicity (single exposure) Category 3</td>
</tr>
<tr>
<td>STOT SE 3</td>
<td>Specific target organ toxicity (single exposure) Category 3</td>
</tr>
<tr>
<td>H225</td>
<td>Highly flammable liquid and vapour</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation</td>
</tr>
<tr>
<td>H336</td>
<td>May cause drowsiness or dizziness</td>
</tr>
</tbody>
</table>

**NFPA health hazard**: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

**NFPA fire hazard**: 3 - Liquids and solids that can be ignited under almost all ambient conditions.

**NFPA reactivity**: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

SDS US (GHS HazCom 2012)
This Material Safety Data Sheet is intended only as a guide to the appropriate precautionary handling of the material by a person trained in, or supervised by a person trained in, the safe handling of chemical materials. James Alexander Corporation (JAC), expressly disclaims all express or implied warranties of merchantability and fitness for a particular purpose with respect to the product or information provided herein. All information appearing herein is based upon data obtained from the manufacturer(s) and/or recognized technical sources. While the information is believed to be accurate, JAC makes no representations as to its accuracy or sufficiency. Conditions of use are beyond JAC’s control and therefore, users are responsible to verify this data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product, or from the publication or use of, or reliance upon, information contained herein. This information relates only to the product designated herein and does not relate to its use in combination with any other material or in any other process.
SAFETY DATA SHEET

1. Product and Company Identification

Red Emergency Flare - No Perchlorate (NPC) Formulation

Identification:
The NPC flare will have the following symbol on it:

Synonyms: Emergency Road Flare
Railway Flare
NSN#: 1370-01-009-2593

Identified Use: Emergency signal
Use Advised Against: Do not use indoors or inside a vehicle

Manufacturers Information
Orion Safety Products
28320 St. Michaels Rd
Easton, MD 21601
800-637-7807
410-822-0318

EMERGENCY CHEMTREC
1-800-424-9300

2. Hazards Identification

GHS Classifications
Skin Irritation Category 2 H315
Eye Irritation Category 2A H319
STOT - Single Exposure Category 3 H335

GHS Label Elements
Pictograms
Signal Word Warning

Precautionary Statements
P103 Keep out of reach of children
P261 Avoid breathing dust/smoke.
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective eye protection
P370 In case of fire: use water deluge
P501 Dispose of contents / container in accordance with local and national regulations.

Hazard Statements
H315 /319 Causes skin and serious eye irritation
H335 May cause respiratory irritation

Hazards Not Otherwise Classified (HNOC): produces hot flame

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>EINCS #</th>
<th>%age</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strontium Nitrate</td>
<td>10042-76-9</td>
<td>233-131-9</td>
<td>&lt;75%</td>
</tr>
<tr>
<td>Sulfur</td>
<td>7704-34-9</td>
<td>231-722-6</td>
<td>&lt;25%</td>
</tr>
<tr>
<td>Potassium Nitrate</td>
<td>7757-79-1</td>
<td>231-818-9</td>
<td>&lt;25%</td>
</tr>
<tr>
<td>Paraffinic Oil</td>
<td>64742-54-7</td>
<td>232-384-2</td>
<td>&lt;10%</td>
</tr>
<tr>
<td>Potassium Chlorate</td>
<td>3811-04-9</td>
<td>231-100-4</td>
<td>&lt;5%</td>
</tr>
<tr>
<td>Waxy sawdust</td>
<td>mixture</td>
<td>none</td>
<td>&lt;5%</td>
</tr>
<tr>
<td>Polyvinyl Chloride</td>
<td>9002-86-2</td>
<td>200-831-0</td>
<td>&lt;5%</td>
</tr>
<tr>
<td>Shellac</td>
<td>mixture</td>
<td>none</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>Charcoal</td>
<td>1333-86-4</td>
<td>231-153-3</td>
<td>&lt;1%</td>
</tr>
</tbody>
</table>

Note: Due to Confidential Business Information i.e. “Trade Secrets”, the exact percentage of each ingredient has not been disclosed. CBI information will be shared with appropriate authorities if circumstances warrant.

4. First Aid Measures

Description of first aid measures

Inhalation
If contents are inhaled, remove to fresh air. Watch for signs of allergic reaction. If other symptoms develop, get medical aid immediately.

Skin
If contents are contacted, wash with area with soap and water for 15 minutes. Remove contaminated clothing and wash before reuse. Get medical aid immediately if burned or irritation occurs.

Eyes
If contents get into eye, flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Remove contact lenses if easily possible. Do not use boric acid to rinse with; sulfur is an acid irritant. Get medical aid immediately.

Ingestion
Get medical aid immediately.

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5. Firefighting Measures

Extinguishing Media
- Water deluge
- Unsuitable Extinguishing Media: Foam and dry chemical extinguishers and suffocation are ineffective.

Protective Equipment and Precautions for Firefighters
- Wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode. Prevent further propagation of fire by spraying unburnt nearby product with water. Combat fire from a sheltered position.

Specific Hazards Arising from the Chemical
- Use copious amounts of water to extinguish fire comprised of flares. Flares contain oxidizers and will continue to burn unless a significant amount of water is used. Do not breathe smoke.

Environmental Precautions
- Prevent build-up of electrostatic charges by grounding.
- Prevent dispersion of contents on soil and in water. Prevent contents from spreading or entering into drains, ditches, and surrounding water bodies. Use appropriate containment and collection equipment/techniques. Do not absorb in sawdust or other combustible absorbents. Pick up spill for recovery or disposal and place in an approved container. Wash away remaining spilled materials with plenty of water or approved beverages. Store aseptically.

Precautions for Firefighters
- Prevent dispersion of contents on soil and in water. Prevent contents from spreading or entering into drains, ditches, and surrounding water bodies. Use appropriate containment and collection equipment/techniques. Do not absorb in sawdust or other combustible absorbents. Pick up spill for recovery or disposal and place in an approved container. Wash away remaining spilled materials with plenty of water or approved beverages. Store aseptically.

Further information
- No data available

6. Accidental Release Measures

Personal Precautions / Protective Equipment / Emergency Procedures
- Do not breathe contents and avoid contact with skin and eyes. Wear flame retardant clothing with long sleeves, dust mask, rubber or nitrile gloves, safety goggles, safety shoes. Avoid friction on the released product. Keep away from ignition sources.

Environmental Precautions
- Prevent dispersion of contents on soil and in water. Prevent contents from spreading or entering into drains, ditches, ground water, or rivers by using appropriate barriers.

Methods for Containment and Clean-up
- Use caution when cleaning up spilled product contents. Remove heat, flames, sparks and other sources of ignition. Use non-sparking tools and equipment. Prevent buildup of electrostatic charges by grounding. Clean spills in a manner that does not disperse dust into the air. Do not absorb in sawdust or other combustible absorbents. Pick up spill for recovery or disposal and place in an approved container. Wash away remainder with plenty of water. Collect wash water for approved disposal.

7. Handling and Storage

Precautions for Safe Handling
- Hold and point flare away from body when igniting. Exercise caution when using this product since molten flecks may be emitted. Produces hot flame. Burning flare can cause severe burns if in contact with body. Avoid contact with clothing and other combustible materials. Wear eye protection during use. Follow instructions on package. Use outdoors only! Do not ignite or burn product inside a vehicle or building. Avoid inhalation of smoke. Do not dismantle. Do not allow contents to touch eyes, skin or clothing. Do not ingest contents as they may be harmful if swallowed. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with heat, sparks, and flame.

Conditions for Safe Storage, Including Any Incompatibilities
- Store away from direct sunlight, heat and incompatible materials. See section 10. Store away from food and beverages. Store away from flammable materials, sources of heat, flame and sparks. Store at ambient temperature. Do not store partially burned flares in a vehicle, warehouse, or any other building. Plastic bags are provided for moisture protection. Keep partially used bags sealed at all times.

8. Exposure Controls / Personal Protection

Control parameters
- Exposures Limits
  - Strontium Nitrate: Not Established
  - Sulfur: Not Established
  - Potassium Nitrate: Nuisance dust 15 mg/m³
  - Paraffinic Oil: 5 mg/m³
  - Potassium Chlorate: No Airborne Exposure Limits established
  - Waxy sawdust: Not Established
  - Polyvinyl Chloride: No known hazardous components above regulatory thresholds in this product.
  - Shellac: Not Established
  - Charcoal: Nuisance dust 15 mg/m³

Exposure controls
- Engineering Controls
  - Use product outdoors only! When cleaning up contents, use local and/or general exhaust.

Personal Protective Equipment
- Eye / Face Protection
  - Safety glasses or goggles

- Skin Protection
  - None under normal conditions when using product unless prolonged handling is anticipated. Impervious protective clothing, including gloves, boots, and a lab coat, apron or coveralls, as appropriate, when cleaning up spilled product. Wash hands and face before eating, drinking or using tobacco products.

- Respiratory Protection
  - None under normal conditions when using product. A particulate respirator (NIOSH T, N95 or better filters) may be worn during the cleanup of spilled materials.

- General Hygiene
  - Use product outdoors away from combustible products. For cleanup of spilled materials, emergency showers and eye wash stations should be available. Educate and train employees in the safe use and handling of hazardous materials.
9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Yellow to grey powder</td>
</tr>
<tr>
<td>pH</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling Point / Range</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Odor</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability</td>
<td>No data available</td>
</tr>
<tr>
<td>Partition Coefficient</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto Ignition Temperature</td>
<td>36°F</td>
</tr>
<tr>
<td>Melting Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability Limits</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
</tr>
<tr>
<td>Solubility</td>
<td>Not available</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Relative Density</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No data available</td>
</tr>
</tbody>
</table>

10. Stability and Reactivity

- Chemical Stability: Stable
- Reactivity: No information available
- Possibility of Hazardous Reactions: Hazardous polymerization will not occur
- Conditions to Avoid
  - Combustible materials, heat, flames, sparks, and other sources of ignition. Moisture.
- Incompatible Materials
  - Strong acids, strong fuels, ammonia salts, and strong bases. Strong oxidizers; chlorate salts.
- Hazardous Decomposition Products
  - Carbon monoxide, carbon dioxide, sulfur oxides, and nitrogen oxides.

11. Toxicology Information

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Oral LD50</th>
<th>skin LD50</th>
<th>LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strontium Nitrate</td>
<td>Rat &gt; 2750 mg/kg</td>
<td>Rat &gt; 2000 mg/kg</td>
<td>No information found</td>
</tr>
<tr>
<td>Sulfur</td>
<td>Rat &gt; 2000 mg/kg</td>
<td>Rat &gt; 2000 mg/kg</td>
<td>No information found</td>
</tr>
<tr>
<td>Potassium Nitrate</td>
<td>Rat &gt; 3750 mg/kg</td>
<td>Rat &gt; 2000 mg/kg</td>
<td>No information found</td>
</tr>
<tr>
<td>Paraffinic Oil</td>
<td>Rat &gt; 2000 mg/kg</td>
<td>Rat &gt; 2000 mg/kg</td>
<td>No information found</td>
</tr>
<tr>
<td>Potassium Chlorate</td>
<td>Rat &gt; 1870 mg/kg</td>
<td>Rabbit &gt; 2000 mg/kg</td>
<td>No information found</td>
</tr>
<tr>
<td>Waxy sawdust</td>
<td>Rat &gt; 5000 mg/kg</td>
<td>No information found</td>
<td>Not stated</td>
</tr>
<tr>
<td>Polyvinyl Chloride</td>
<td>Rat &gt; 5000 mg/kg</td>
<td>No information found</td>
<td>Not stated</td>
</tr>
<tr>
<td>Shellac</td>
<td>Rat &gt; 10000 mg/kg</td>
<td>No information found</td>
<td>No information found</td>
</tr>
<tr>
<td>Charcoal</td>
<td>Rat &gt; 15400 mg/kg</td>
<td>Rabbit: 3 g/kg</td>
<td>No information found</td>
</tr>
</tbody>
</table>

Product toxicological information

- **Acute Toxicity**
  - Not classified – Acute Toxicity Estimate yields oral LD₅₀ over 5000 mg/kg bw
- **Skin Irritation / Corrosion**
  - Category 2 – over 10% of ingredients classified as a Category 2
- **Serious Eye Damage / Irritation**
  - Category 2a – over 10% of ingredients classified as a Category 2a
- **Respiratory / Skin Sensitization**
  - Not classified (Based on available data, the classification criteria are not met)
- **Germ Cell Mutagen**
  - Not classified (Based on available data, the classification criteria are not met)
- **Carcinogen**
  - Not classified (Based on available data, the classification criteria are not met)
- **Reproductive Toxicity**
  - Category 3 – respiratory over 10% of ingredients classified as a Category 3 respiratory STOT hazard
- **STOT – single exposure**
  - Not classified (Based on available data, the classification criteria are not met)
- **STOT – repeated exposure**
  - Not classified (Based on available data, the classification criteria are not met)
- **Aspiration Hazard**
  - Not classified (Based on available data, the classification criteria are not met)
- **Likely routes of exposure**
  - Skin, ingestion, inhalation
- **Symptoms related to the physical, chemical and toxicological characteristics**
  - Contents irritating to eyes due to chemical and physical properties of the mixture. Inhalation of contents may cause gastrointestinal irritation with nausea, vomiting and diarrhea. Individuals with known allergies to sulfide drugs may also have allergic reactions to elemental sulfur.
- **Delayed and immediate effects and chronic effects from short and long term exposure**
- **Interactive effects**
- **No information found**

12. Ecological Information

- **Ingredient toxicity / persistence / degradability / bioaccumulation / mobility in soil and water**
  - **Aquatic Toxicity**
    - Strontium Nitrate: Acute toxicity - Fishes, Carassius auratus, LC100, 9,615 mg/L; Chronic toxicity - Fishes, Gasterosteus aculeatus, LC100, 2,912 mg/L
    - Sulfur: Toxicity to fish LC50: Oncorhynchus mykiss (rainbow trout) > 180 mg/L; 96 h Toxicity to daphnia and other aquatic invertebrates: EC50 - Daphnia magna (Water flea) > 5,000 mg/L - 48 h
    - Potassium Chlorate: fish LC50 oncorhynchus mykiss (rainbow trout) 1750 mg/L - 96 h, EC50 daphnia magna (water flea) 1093 mg/L 24 hr
    - Paraffinic Oil: Oil Mist, Mineral Lepomis macrochirus (LC50) 96 hour(s) >100 mg/L Oncorhynchus mykiss (LC50) 96 hour(s) >100 mg/L
    - Potassium Nitrate: Fish: Guppy (Poecilia Reticulata) LC50 180 mg/L (96 h); zooplankton: Daphnia magna LC50 490 mg/L - 48 hr
  - **Persistence / Degradability**
    - Potassium Nitrate: Soluble in water Persistence is unlikely based on information available.
  - **Bioaccumulation / Accumulation**
    - No information found
  - **Mobility in Environmental Media**
    - Strontium Nitrate: Water: considerable solubility and mobility; Soil/sediments non-significant adsorption
    - Potassium Nitrate: Will likely be mobile in the environment due to its water solubility.
  - **Other adverse effects**
    - No information found
13. Disposal Considerations

Disposal methods
Flares should be allowed to burn to completion. Partially burned or unburned flares, spilled contents, and ash from burned flares should be disposed of in accordance with federal, state, and local requirements. Consult factory for any additional disposal concerns.

14. Transportation Information

<table>
<thead>
<tr>
<th>Description</th>
<th>ID Number</th>
<th>Shipping Name</th>
<th>Hazard Class</th>
<th>Packing Group</th>
<th>EX Number</th>
<th>Reportable Quantities</th>
<th>Shipping Method</th>
</tr>
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<tbody>
<tr>
<td>Domestic Shipments</td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<td></td>
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<tr>
<td>No inner packaging</td>
<td>*NA1325</td>
<td>Fusee</td>
<td>4.1</td>
<td>II</td>
<td>EX1992090001</td>
<td>none</td>
<td>Ground only</td>
</tr>
<tr>
<td>Retail Packaging</td>
<td>**UN3178</td>
<td>Flammable solid, inorganic (highway flares or fuseses)</td>
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<td>II</td>
<td>EX2002110114</td>
<td>none</td>
<td>Ground only</td>
</tr>
<tr>
<td>International / Air</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inner Packaging (bag)</td>
<td>UN0373</td>
<td>Signal devices, hand</td>
<td>1.4S</td>
<td></td>
<td>EX1992090001</td>
<td>none</td>
<td>Air / ground</td>
</tr>
</tbody>
</table>

* As noted on EX1992090001

** According to 49CFR, Exception for Class 4, flares properly packaged and classed as UN3178, Flammable solid, inorganic (highway flares or fuseses), may be renamed 'Consumer Commodity' and reclassed as ORM-D and offered for transportation and transported in accordance with the applicable provisions of that subchapter.

Marine Pollutant: No Special precautions for user: No information available

15. Regulatory Information

<table>
<thead>
<tr>
<th>US Regulations</th>
<th>TSCA</th>
<th>CERCLA</th>
<th>CWA</th>
<th>CAA</th>
<th>SARA 313</th>
<th>SARA 302</th>
<th>Acute</th>
<th>Chronic</th>
<th>Fire</th>
<th>Reactivity</th>
<th>Pressure</th>
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</thead>
<tbody>
<tr>
<td>Strontium Nitrate</td>
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<td>no</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>yes</td>
<td>no</td>
<td>no</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>Sulfur</td>
<td>yes</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>yes</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>no</td>
</tr>
<tr>
<td>Potassium Nitrate</td>
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<td>no</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>yes</td>
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</tr>
<tr>
<td>Paraffinic Oil</td>
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<td>no</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>yes</td>
<td>no</td>
<td>no</td>
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<td>no</td>
</tr>
<tr>
<td>Potassium Chlorate</td>
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<td>no</td>
<td>no</td>
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<tr>
<td>Waxy sawdust</td>
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<td>no</td>
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<td>no</td>
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US States | Prop 65 | NJ | PA | Canada
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<td>Strontium Nitrate</td>
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<td>Sulfur</td>
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<td>Potassium Nitrate</td>
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<td>Paraffinic Oil</td>
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<td>Potassium Chlorate</td>
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<td>Waxy sawdust</td>
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<td>Polyvinyl Chloride</td>
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<td>Shellac Mixture</td>
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US | WHMIS | DSL | Europe | Wkg
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16. Other Information

Revision Information: May 2015

NFPA Rating | HMIS Rating
---|---|
Flammability | 1 | Flammability | 1 |
Health | 2 | Health | 2 |
Reactivity | 1 | Physical Hazard | 1 |

Key / Legend:
- NFPA: national fire protection association
- CAS: Chemical Abstracts Service number
- EINECS: European inventory of existing chemical substances
- OSHA PEL: occupational safety and health administration permissible exposure limit
- NIOSH TLV: National Institute of Occupational Safety and Health Threshold Limit Value
- TSCA: Toxic substance control act
- CERCLA: Comprehensive Environmental Response, Compensation and Liability Act
- CWA: Clean Water Act
- CAA: Clean Air Act
- SARA: Superfund Amendments and Reauthorization Act
- DSL: Domestic Substances List
- WHMIS: Workplace Hazardous Materials Information System
- SARA: Superfund Amendments and Reauthorization Act
- CA: California
- PA: Pennsylvania
- NJ: New Jersey
- Exempt: No restrictions
- Not Listed: Not listed
- Yes: Yes
- No: No
- N/A: Not available
- US: United States
- Europe: Europe
- Wkg: Water Hazard Class
- US: United States
- Europe: Europe
- Wkg: Water Hazard Class
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