SAFETY DATA SHEET

EFFECTIVE DATE: 06/06/17

ITEM: Deluxe 5 Flare Roadside Emergency Kit

PART #   UPC
8902-5   10039147089057

CONTENTS:
Alcohol Prep/Swab
Antiseptic Towelette
  Battery
First Aid Cream
Red Emergency Flare
Hot Hands Handwarmers
  Instant Cold Pack
Light Stick (Green)
Moist Towelette
  Purified Water
Safety Matches
Sting & Bite Pad
  Tea Candle
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 nervous 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 throughly 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
  o Gloves
  o Eye
  o 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 LCLO (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
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:
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.
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>5.0 mg/m³ (TWA)</td>
</tr>
<tr>
<td>Zinc</td>
<td>7440-66-6</td>
<td>16-20</td>
<td>5.0 mg/m³ (ZnOas Fume)</td>
</tr>
<tr>
<td>Acetylene Black</td>
<td>1333-86-4</td>
<td>7-13</td>
<td>3.5 mg/m³ (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>0.02</td>
<td>50 ug/m³ (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: http://www.nema.org/Policy/Environmental-Stewardship/Documents/batteryingest.pdf

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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<tbody>
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<td>Balance</td>
<td>---</td>
</tr>
</tbody>
</table>
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.

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.
SAFETY DATA SHEET

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>NE</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.
Safety Data Sheet

Section 1. Product and Company Identification

Product Name: HotHands Hand Warmers, Foot Warmers, Insole Foot Warmers, Toe Warmers, Body Warmers, Adhesive Body Warmers, and Survival Heat

Synonyms: Air Activated heating pads in protective film - various sizes.

Company Name: Heatmax Inc.,
Address: 245 Kraft Drive, Dalton GA 30721
Contact: Quality Assurance Department
TEL: 706-226-1800

Section 2. Hazard Identification

Hazardous properties: Hazard is low when used under normal conditions.
Appearance and odor: Odorless, solid power.
Physical or chemical hazards: Hazard is low when used under normal conditions.

Section 3. Composition, Ingredients

Substance / Mixture: Mixture
Common Name: Warming Sheet (Air-activated heat pad)
Harmful Substances: No appreciable hazardous substances present.
Main ingredients: Charcoal, iron powder.

Section 4. First-aid Measures

IF ON SKIN: Wash with soap and rinse thoroughly with water.
IF IN EYES: Do not rub affected eyes. Rinse eyes with running water for at least 15 minutes.
IF SWALLOWED: Rinse mouth thoroughly with water.
Always consult a physician if the abnormal condition persists after taking the measures mentioned above.

Section 5. Fire-extinguishing Measures

Extinguishing agent: Sand, dry chemical powder, carbon dioxide, foam, etc.
Extinguishing procedure: Extinguish the fire by spraying or applying the extinguishing agent directly to the origin of the fire. If at all possible, approach the fire and apply the agent from the windward side of the fire.
Protective equipment: Wear protective equipment appropriate to the condition of the fire (gloves, goggles, masks, etc.)

Section 6. Accidental Release Measures

Personal precautions: To prevent contact with the skin ventilate the air and personal protective equipment such as rubber gloves.

Environmental precautions: Exercise caution to prevent the substance from being released into rivers, etc., and adversely affecting the environment.

Method of removal: If the contents of an air-activated heat pad leaks, sweep it up and place the substance in a container filled with water.

Prevention of a secondary accident: Make sure to remove anything from the vicinity that may contribute to a secondary fire. Carry out additional fire retardant applications as necessary and do not walk on the released material.

Section 7. Handling and Storage

Safe handling: Do not use for any unintended purpose.

Storage: Store the substance away from direct sunlight and high temperatures or humidity.

Other: Comply with all applicable laws and regulations including the Fire Defense Law and the Industrial Safety and Health Law.

Section 8. Exposure Control and Personal Protection

Technical measures: Not established.

Control concentration and threshold limits: Not established

Section 9. Physical and Chemical Properties

Form: Flat structure
Color: White (contents are black)
Odor: No odor
pH: Unmeasurable
Flash point: --
Specific gravity (d20/20): --
Solubility (20 °C): --

Section 10. Stability and Reactivity

Stability: Stable under normal conditions.
Reactivity: No specific reactivity.

Section 11. Toxicological Information

Oral toxicity: LD₅₀ > 2000mg/kg (oral, rat)
Eye irritation : No information  
Skin irritation : Slight to moderate irritation (rabbit, 24 hour occlusive test)

**Section 12. Ecological Information**

No data

**Section 13. Disposal Considerations**

Waste from residue, container, packaging : Dispose in accordance with national and local laws and regulations.

**Section 14. Transportation Information**

<table>
<thead>
<tr>
<th>Mode</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Domestic</td>
<td>Land: Comply with a method of transportation specified in Fire Defense Law, Industrial Safety and Health Law</td>
</tr>
<tr>
<td></td>
<td>Air: Comply with a method of transportation specified in Civil Aeronautics Act.</td>
</tr>
<tr>
<td>International</td>
<td>Comply with rules specified in IATA for air transportation and IMDG for sea transportation.</td>
</tr>
</tbody>
</table>

United Nations : N/A  
UN Code : N/A

**Section 15. Applicable Rules & Regulations**

<table>
<thead>
<tr>
<th>Rule</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fire Defense Law</td>
<td>N/A</td>
</tr>
<tr>
<td>Industrial Safety and Health Act</td>
<td>N/A</td>
</tr>
<tr>
<td>PRTR Law</td>
<td>N/A</td>
</tr>
<tr>
<td>Poisonous and Deleterious Substances Control Act</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**Section 16. Other Information**

References : MSDS from component manufacturers

This Safety Data Sheet (SDS) was prepared based on the latest documents, information and data available at the time of preparation and may be revised if any new findings are obtained in the future.

The precautions stated in this SDS apply to normal conditions of use. Whenever the product is used under special conditions, it is the responsibility of the user to take proper safety measures.
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.

NFP HAARD CLASS:
- Health: 1 (Slight)
- Flammability: 0 (Least)
- Reactivity: 3 (High)
- Other: OXY (Oxidizer)
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>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium Nitrate</td>
<td>40-70</td>
<td>Limits Agency Type</td>
</tr>
<tr>
<td>CAS# 6484-52-2</td>
<td></td>
<td>Not Established</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OTHER COMPONENTS</th>
<th>% Weight</th>
<th>EXPOSURE GUIDELINE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>30-60</td>
<td>Limits Agency Type</td>
</tr>
<tr>
<td>CAS# 7732-18-5</td>
<td></td>
<td>Not Established</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
on permeability). Depending on conditions of use, apron and/or arm covers may be necessary.

**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: SHY150400006214-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: 131-11-3</th>
<th>dimethyl phthalate</th>
<th>89.5%</th>
</tr>
</thead>
<tbody>
<tr>
<td>EINECS: 205-011-6</td>
<td>substance with a Community workplace exposure limit</td>
<td>89.5%</td>
</tr>
<tr>
<td>CAS: 7732-18-5</td>
<td>water</td>
<td>8.2%</td>
</tr>
<tr>
<td>EINECS: 231-791-2</td>
<td></td>
<td>8.2%</td>
</tr>
<tr>
<td>CAS: 7722-84-1</td>
<td>hydrogen peroxide</td>
<td>2.3%</td>
</tr>
<tr>
<td>EINECS: 231-765-0</td>
<td></td>
<td>2.3%</td>
</tr>
<tr>
<td>Index number: 008-003-00-9</td>
<td></td>
<td>2.3%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C R55;</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Ex R20/22;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>O R8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>R5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ox. Liq. 1, H271;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Skin Corr. 1A, H314;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute Tox. 4, H302; Acute Tox. 4, H332</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.
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:

<table>
<thead>
<tr>
<th>Material</th>
<th>Limit Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>131-11-3 dimethyl phthalate (89.5%)</td>
<td>Short-term value: 10 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Long-term value: 5 mg/m³</td>
</tr>
<tr>
<td>WEL (Great Britain)</td>
<td>Short-term value: 10 mg/m³</td>
</tr>
<tr>
<td>VME (France)</td>
<td>Long-term value: 5 mg/m³</td>
</tr>
<tr>
<td>7722-84-1 hydrogen peroxide (2.3%)</td>
<td>Long-term value: 0.71 mg/m³, 0.5 ppm</td>
</tr>
<tr>
<td>WEL (Great Britain)</td>
<td>Short-term value: 2.8 mg/m³, 2 ppm</td>
</tr>
<tr>
<td>VME (France)</td>
<td>Long-term value: 1.4 mg/m³, 1 ppm</td>
</tr>
<tr>
<td>VME (France)</td>
<td>Long-term value: 1.5 mg/m³, 1 ppm</td>
</tr>
</tbody>
</table>

- 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:
  - Form: Liquid
  - Colour: Transparent
  - 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: Date 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.
Trade name: Activator for glow stick

- Density: Data not available.
- 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: 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
  - LD/LC50 values relevant for classification:
    - 131-11-3 dimethyl phthalate
      - Oral LD50: 6800 mg/kg (rat)
      - Dermal LD50: >23800 mg/kg (rabbit)
    - 7722-84-1 hydrogen peroxide
      - Oral LD50: 376 mg/kg (rat)
      - Dermal LD50: 3000 mg/kg (rat)
      - Inhalative LC50/4 h: 2 mg/l (rat)

- 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)
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.
- Used/unused 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 MARPOL 73/78 and the IBC Code
  - Not applicable.
- UN "Model Regulation":

(Contd. of 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 4

- National regulations:
  - Water hazard 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: 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 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: 1 or Oxidising Liquids, Hazard Category 1
  Acute Tox. 4: Acute toxicity, Hazard Category 4
  Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A
Trade name: Activator for glow stick

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@glowing.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: SHTY15040006246-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.

⚠️
- Signal word Warning

(Consd. on page 2)
Trade name: Chemiluminescer for green glow stick

- Hazard-determining components of labelling:
  - butyl benzoxate

- 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+P337+P312 IF SWALLOWED: Call a POISON CONTROL CENTER/doctor if you feel unwell.
  P302+P352+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
  EINECS: 205-252-7
  butyl benzoxate
  Acute: Xn R22, Xi R36/38
  H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319
  85.4%

  CAS: 75203-51-9
  EINECS: 278-124-1
  Bis(2,3,5-trichloro-6-((pentylxoy)carbonyl)phenyl) oxalate
  14.0%

  CAS: 10075-85-1
  9,10-Butylanthracene
  Xi R36/37/38
  Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335
  0.6%

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.

(Cond. on page 3)
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 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.
  - 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 materials (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.
- 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.
SECTION 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 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:
  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
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 breakthrough time has to be found out by the manufacturer of the protective gloves and has to be
    observed.
  - Eye protection:
    Tightly sealed goggles
SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- **Appearance:** 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:** Date 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**
- **Vapour pressure:** Data not available.
- **Density:** Data not available.
- **Relative density**
- **Vapour density**
- **Evaporation rate**

- **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. of page 6)
SECTION 11: Toxicological information

11.1 Information on toxicological effects
- Acute toxicity

11.2 LD/LC50 values relevant for classification:
- 136-60-7 butyl benzate
  - Oral LD50: 735 mg/kg (rat)
  - Dermal LD50: 4000 mg/kg (rabbit)

11.3 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
- Recommendation
  - Must not be disposed together with household garbage. Do not allow product to reach sewage system.

(Cond. on page 7)
Safety data sheet

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
    - 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 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
  - H302 Harshful if swallowed.
  - H315 Causes skin irritation.
  - H319 Causes serious eye irritation.
  - R22 Harshful if swallowed.
  - R36/38 Irritating to eyes and skin.
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, injury or illness, damage to property or the environment that arises from the presence of a dangerous substance, or from exposure to it.
BRID: 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)
LD50: Lethal concentration, 50 percent
LC50: Lethal concentration, 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.
Material Safety Data Sheet
Water, Purified MSDS

Section 1: Chemical Product and Company Identification

Product Name: Water, Purified
Catalog Codes: SLP4732
CAS#: 7732-18-5
RTECS: ZC0110000
TSCA: TSCA 8(b) inventory: Water
CI#: Not available.
Synonym: Dihydrogen oxide
Chemical Name: Water
Chemical Formula: H2O

Contact Information:
Sciencelab.com, Inc.
14025 Smith Rd.
Houston, Texas 77396
US Sales: 1-800-901-7247
International Sales: 1-281-441-4400
Order Online: ScienceLab.com
CHEMTREC (24HR Emergency Telephone), call:
1-800-424-9300
International CHEMTREC, call: 1-703-527-3887
For non-emergency assistance, call: 1-281-441-4400

Section 2: Composition and Information on Ingredients

Composition:

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS #</th>
<th>% by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>100</td>
</tr>
</tbody>
</table>

Toxicological Data on Ingredients: Not applicable.

Section 3: Hazards Identification

Potential Acute Health Effects:

Potential Chronic Health Effects:

Section 4: First Aid Measures

Eye Contact: Not applicable.
**Skin Contact:** Not applicable.

**Serious Skin Contact:** Not available.

**Inhalation:** Not applicable.

**Serious Inhalation:** Not available.

**Ingestion:** Not Applicable

**Serious Ingestion:** Not available.

### Section 5: Fire and Explosion Data

- **Flammability of the Product:** Non-flammable.
- **Auto-Ignition Temperature:** Not applicable.
- **Flash Points:** Not applicable.
- **Flammable Limits:** Not applicable.
- **Products of Combustion:** Not available.
- **Fire Hazards in Presence of Various Substances:** Not applicable.
- **Explosion Hazards in Presence of Various Substances:** Not Applicable
- **Fire Fighting Media and Instructions:** Not applicable.
- **Special Remarks on Fire Hazards:** Not available.
- **Special Remarks on Explosion Hazards:** Not available.

### Section 6: Accidental Release Measures

- **Small Spill:** Mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.
- **Large Spill:** Absorb with an inert material and put the spilled material in an appropriate waste disposal.

### Section 7: Handling and Storage

- **Precautions:** No specific safety phrase has been found applicable for this product.
- **Storage:** Not applicable.

### Section 8: Exposure Controls/Personal Protection

- **Engineering Controls:** Not Applicable
- **Personal Protection:** Safety glasses. Lab coat.
- **Personal Protection in Case of a Large Spill:** Not Applicable
- **Exposure Limits:** Not available.

### Section 9: Physical and Chemical Properties

- **Physical state and appearance:** Liquid.
Odor: Odorless.

Taste: Not available.

Molecular Weight: 18.02 g/mole

Color: Colorless.

pH (1% soln/water): 7 [Neutral.]

Boiling Point: 100°C (212°F)

Melting Point: Not available.

Critical Temperature: Not available.

Specific Gravity: 1 (Water = 1)

Vapor Pressure: 2.3 kPa (@ 20°C)

Vapor Density: 0.62 (Air = 1)

Vapility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: Not applicable

Solubility: Not Applicable

---

**Section 10: Stability and Reactivity Data**

**Stability:** The product is stable.

**Instability Temperature:** Not available.

**Conditions of Instability:** Not available.

**Incompatibility with various substances:** Not available.

**Corrosivity:** Not available.

**Special Remarks on Reactivity:** Not available.

**Special Remarks on Corrosivity:** Not available.

**Polymerization:** Will not occur.

---

**Section 11: Toxicological Information**

**Routes of Entry:** Absorbed through skin. Eye contact.

**Toxicity to Animals:**
LD50: [Rat] - Route: oral; Dose: > 90 ml/kg LC50: Not available.

**Chronic Effects on Humans:** Not available.

**Other Toxic Effects on Humans:**

**Special Remarks on Toxicity to Animals:** Not available.
Special Remarks on Chronic Effects on Humans: Not available.
Special Remarks on other Toxic Effects on Humans: Not available.

Section 12: Ecological Information

Ecotoxicity: Not available.
BOD5 and COD: Not available.
Products of Biodegradation:
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.
Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

DOT Classification: Not a DOT controlled material (United States).
Identification: Not applicable.
Special Provisions for Transport: Not applicable.

Section 15: Other Regulatory Information

Federal and State Regulations: TSCA 8(b) inventory: Water
Other Regulations: EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.
Other Classifications:
WHMIS (Canada): Not controlled under WHMIS (Canada).
DSCL (EEC):
This product is not classified according to the EU regulations. Not applicable.
HMIS (U.S.A.):
  Health Hazard: 0
  Fire Hazard: 0
  Reactivity: 0
  Personal Protection: a
National Fire Protection Association (U.S.A.):
  Health: 0
  Flammability: 0
  Reactivity: 0
  Specific hazard:
Protective Equipment: Not applicable. Lab coat. Not applicable. Safety glasses.

### Section 16: Other Information

**References:** Not available.

**Other Special Considerations:** Not available.

**Created:** 10/09/2005 06:14 PM

**Last Updated:** 05/21/2013 12:00 PM

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall ScienceLab.com be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if ScienceLab.com has been advised of the possibility of such damages.
SAFETY MATCHES

Material Safety Data Sheet (essentially similar to OSHA form 20)

Manufactured by: Atlas Match, LLC
1801 South Airport Circle
Euless, Texas 76040

Phone: (817) 354-7474

Last revision Date: September 1, 2009

Product Information

Generic ID: Matches, Safety, Book or Strike on Box  UN 1944
Brand Name: Atlas Book Matches, Advertising Book Matches and, various stock and special design names.

Hazard Class: Flammable Solid
Label Required: None (exception 49CFR 173.186c)

Hazardous Ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Percent</th>
<th>PEL</th>
<th>Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium Chlorate</td>
<td>3.0%</td>
<td>NE</td>
<td>Strong Oxidizer</td>
</tr>
<tr>
<td>Red Phosphorous</td>
<td>&lt;1.0%</td>
<td>NE</td>
<td>Flammable Solid</td>
</tr>
</tbody>
</table>

Physical Data

Appearance and Odor: Odorless manufactured article – wood or paper stem with matchhead.
Solubility in Water: Non-paper components are partially soluble
Specific Gravity: < 1.0 (water = 1.0)
Boiling Point: NA
Vapor Pressure and Density: NA
Percent Volatile: 0 to 7% moisture
Evaporation Rate: NA

Fire and Explosion Hazard Data

Flash Point: NA
Flammable Limits: NA
Auto-ignition Point: Approx. 375 degrees F, Stable at 200 degrees F for 8 hours
Extinguishing Media: Water or ABC dry chemical extinguisher

Special Fire Fighting Procedures

1. Do not open sealed packages until fire is controlled, in order to limit oxygen availability.
2. Smoke from significant fire involvement will contain Oxides of Carbon and Sulfur Dioxide which is hazardous (TLV 2ppm), use self contained breathing apparatus.

Unusual Fire/Explosion Hazards

Possibility of ignition if subjected to extreme shock or friction.
Health Hazard Data

Threshold Limit Value: None known for product
Effects of overexposure: Contact with product while functioning can result in thermal burn.
First Aid Procedure: Burns should be immersed in cold water (unless area is extensive and 3rd degree) to relieve pain. Cover with sterile dressing and seek medical attention if required.

Reactivity Data

Stability: Stable
Conditions to avoid: Avoid temperature over 200 degrees F and extreme shock.
Incompatibility: Exposure to water or extreme dampness may affect performance; strong acids and phosphorus (red or yellow forms) may cause ignition.
Hazardous Polymerization: Will not occur.

Spill or Leak Procedures

For spills including loose matches or broke cases

Keep unnecessary personnel, open flames (including flares), heat sources and sparks away from area. Wet spilled material thoroughly before attempting clean up. Place in non-flammable container and submerge in water for one hour before disposal.

For unopened cases

Evaluate each case for possible ignition, looking for signs of smoke or warmth. Do not open any case which is warm or smoking, wet it down and dispose of when cool. Full cases not affected can be considered safe to use.

Disposal

Dispose of matches after at least one hour submersion under water by incineration or landfilling in accordance with local, state and federal regulations.

California Users-Special Instructions:

The match tips in this product contain perchlorate materials. Special handling may apply in California. See: www.dtsc.ca.gov/hazardouswaste/perchlorate.

Special Precautions

Protective equipment: None normally required
Ventilation: Natural is sufficient for normal use
Precautions for handling and storage: Store in a cool, dry location. Avoid crushing or extreme mechanical shock.
Other precautions: Close book before striking. Strike away from face and body.

The information accumulated herein is believed to be accurate, but is not warranted to be. Recipients are advised to confirm in advance of need that the information is current, applicable and suitable to their circumstances.
<table>
<thead>
<tr>
<th>Application No.</th>
<th>Docket No.</th>
<th>Applicant</th>
<th>Regulation(s) Affected</th>
<th>Nature of Special Permit Thereof</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### 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
- **Hazard pictograms (GHS-US)**:
  - ![GHS02](image)
  - ![GHS07](image)
- **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+P335 - 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
**Medicaine® Sting and Bite Relief**

**Safety Data Sheet**

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

---

**SECTION 1: Identification**

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>Isopropyl alcohol</td>
<td>(CAS No) 67-63-0</td>
<td>20 - 25</td>
<td>Flam. Liq. 2, H225, Eye Irrit. 2A, H319</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 15 cc (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**
- 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.

6.2. **Environmental precautions**
- Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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.
### Section 7: Physical and Chemical Properties

#### 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>
</tr>
</thead>
<tbody>
<tr>
<td>USA ACGIH</td>
</tr>
<tr>
<td>USA ACGIH</td>
</tr>
<tr>
<td>USA OSHA</td>
</tr>
<tr>
<td>USA OSHA</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)

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

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>Isopropyl alcohol (67-63-0)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>4396 mg/kg</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>12800 mg/kg</td>
</tr>
<tr>
<td>LC50 inhalation rat (ppm)</td>
<td>16000 ppm (Exposure time: 8 h)</td>
</tr>
<tr>
<td>ATE CLP (oral)</td>
<td>4396.000 mg/kg bodyweight</td>
</tr>
<tr>
<td>ATE CLP (dermal)</td>
<td>12800.000 mg/kg bodyweight</td>
</tr>
</tbody>
</table>
L-Menthol (2216-51-5)

LD50 oral rat 3300 mg/kg
ATE CLP (oral) 3300.000 mg/kg bodyweight

Polyethylene glycol (25322-68-3)

LD50 dermal rabbit > 20 ml/kg

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)

IARC group: 3 - Not classifiable

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)

LC50 fishes 1 9640 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1 13299 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 fish 2 11130 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])

L-Menthol (2216-51-5)

LC50 fishes 1 18.9 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])

12.2. Persistence and degradability

Medicaine® Sting and Bite Relief

Persistence and degradability: Not established.
12.3. Bioaccumulative potential

Medicaine® Sting and Bite Relief

Bioaccumulative potential
Not established.

Isopropyl alcohol (67-63-0)
Log Pow
0.05 (at 25 °C)

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 - 4 178.274(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 Sustances 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 Sustances List) inventory.

Polyethylene glycol (25322-68-3)
Listed on the Canadian DSL (Domestic Sustances 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>H-Phrase</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)
Medicaine® Sting and Bite Relief
Safety Data Sheet
according to the federal final rule of hazard communication revised on 2012 (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.
MATERIAL SAFETY DATA SHEET

Paramold Manufacturing, LTD
90 Bourne Boulevard
Sayville, NY 11782
Telephone: (631) 589-5454
Fax: (631) 589-1232
Web Site: www.paramold.com
email: paramold@optonline.net

SECTION I - IDENTIFICATION

Name: 130 FRP
Item #: 800-130
Chemical Name: Clay treated paraffin wax
Formula: Complex mixture of petroleum hydrocarbons
Synonyms: Fully refined paraffin wax
Chemical Family: Paraffin wax
Transportation Emergency: CHEMTREC 1-800-424-9300 (US & Canada)

SECTION II - TYPICAL COMPOSITION

Material: Fully refined paraffin wax
% Weight: 100%
CAS #: 8002-74-2
OSHA PEL: None
Other TWA: None
ACGIH TLV: None Established
Chemical Identity: Clay treated paraffin wax
Emergency Overview: White waxy solid, practically odorless. Will burn in a fire

SECTION III - POTENTIAL HEALTH EFFECTS

Primary routes of exposure: Skin contact
Injection: This material is considered to be in the slight to non-toxic category. Low oral toxicity.
Skin: May be irritating to the skin upon prolonged or repeated contact.
Eye: Vapors from heated product may cause irritation
Inhalation: Vapors from heated product may cause irritation of the nose, throat, and lung.

SECTION IV - FIRST AID

Ingestion: If swallowed, give two glasses of water to drink. Never give anything by mouth to an unconscious person. Do not induce vomiting. Consult a physician.
Skin: Wash affected area thoroughly with waterless cleaner and/or soap and water. If irritation persists, consult a physician.
Inhalation: Remove to fresh air. If not breathing, give artificial respiration. Give oxygen if needed. Seek medical attention.
Eyes: Flush eyes with large amounts of water for at least 15 minutes, holding eyelids open. Consult a physician if irritation persist.

Revision Date: 5/27/2005
SECTION V - FIRE FIGHTING PROCEDURES

Flash Point:  >370 F
Autoignition Temperature:  N/A
Flammability Limits:  N/A
Extinguishing Media:  Carbon dioxide, dry chemical, foam, water fog.
Special Firefighting Procedures: For small fires involving this product, no special procedures or precautions are necessary. For large fires, such as in any fire, wear self-contained breathing apparatus (pressure demand, MSHA/NIOSH approved or equivalent) and full protective gear. Keep personnel removed from and upwind fire.

SECTION VI - ACCIDENTAL RELEASE MATERIALS

Steps to be taken if material is released or spilled:  Clean up spills as soon as possible. If materials in a liquid state, absorb on commercially available material, such as absorbent clay. If material is in a solid state, scoop or shovel into containers for recovery or disposal.
Waste Disposal Method:  Incinerate material at a permitted facility in accordance with current suitable for disposal and bury in an approved landfill according to current local, state and federal regulations. Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate.

SECTION VII - HANDLING AND STORAGE

Precautions to be taken in Handling & Storage:  This material is not hazardous under normal handling and storage conditions. Do not store near high heat or open flames.
Precautions During Use:  Avoid prolonged or repeated skin contact. Skin contact can be minimized by wearing chemically resistant gloves. Good personal hygiene is essential; hands and other exposed areas should be washed thoroughly with soap and after contact, especially before eating and/or smoking. Regular laundering of contaminated clothing will reduce indirect skin contact with this material.

SECTION VIII - EXPOSURE CONTROLS

Ventilation:  None required under normal operating conditions. The ventilation system employed is dependant on the user's specific application of the material.
Respiratory Protection:  None required under normal operating conditions.
Protective Gloves:  Chemically resistant gloves should be should be worn to minimize skin exposures where prolonged or repeated contact can occur.
Eye Protection:  Wear safety glasses or chemical splash goggles (ANSI Z87.1 or approved equivalent) to reduce the possibility or accidental eye contact.
Other Protective Equipment:  None necessary for normal use.

Revision Date: 5/27/2005
SECTION IX - PHYSICAL & CHEMICAL PROPERTIES

- Boiling Point: N/A
- API Gravity: 36 - 43
- Vapor Pressure 20 C/68 F: Nil
- Solubility in water % by weight: Nil
- Melting Point: 125 - 130 F
- Viscosity @ 210 F, SUS: 37 - 50
- Specific Gravity: 0.81 - 0.835
- Physical State: Solid (at 70 F)
- Vapor Density: N/A
- Percent Volitiles by Weight: N/A
- Evaporation Rate: N/A
- Appearance and Odor: Hard white wax, nearly odorless

SECTION X - STABILITY AND REACTIVITY

- Stability: Stable
- Conditions to Avoid: High temperatures and open flame.
- Incompatibility
- Materials to Avoid: Strong Oxidizing Agents.
- Hazardous Polymerization: Will not occur.

SECTION XI - REGULATORY INFORMATION

- Workplace Classifications: This product is considered non-hazardous under the OSHA Hazard Communication Standard. This product is not a controlled product under the Canadian Workplace Hazardous Materials Information Systems (WHMIS).
- Transportation Classifications: US Department of Transportation (DOT) Hazard Class - Nonregulated
- Emergency planning and SARA Title III Section 311.312 Categorizations (40 CFR 370)
- Community Right-to Know: This product not a hazardous chemical under 29 CFR 1910.1200, and therefore is no covered by SARA Title III of SARA
- Toxic Substance Control Act: CAS Number 8002-74-2 This product is listed on the TSCA inventory.
- Comprehensive Environmental Response, Compensation & Liability Act (40 CFR 302.4): Releases of this material to air, land or water are not reportable to the National Response Center under CERCLA/Superfund or to state and local emergency planning committees under the Superfund Amendments Reauthorization Act (SARA) Title III Section 304.
- Resource Conservation & Recovery Act: When this product becomes a waste, it is classified as a nonhazardous waste under the criteria of RCRA (40 CFR 261)
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:

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

<table>
<thead>
<tr>
<th>Substance</th>
<th>GHS Class</th>
<th>CAS #</th>
<th>EINCS #</th>
<th>%age</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strontium Nitrate</td>
<td>Skin Irritation</td>
<td>10042-76-9</td>
<td>233-131-9</td>
<td>&lt;75%</td>
</tr>
<tr>
<td>Sulfur</td>
<td>Eye Irritation</td>
<td>7704-34-9</td>
<td>231-722-6</td>
<td>&lt;25%</td>
</tr>
<tr>
<td>Potassium Nitrate</td>
<td>STOT - Single</td>
<td>7757-79-1</td>
<td>231-818-8</td>
<td>&lt;25%</td>
</tr>
<tr>
<td>Paraffinic Oil</td>
<td></td>
<td>64742-54-7</td>
<td>232-384-2</td>
<td>&lt;10%</td>
</tr>
<tr>
<td>Potassium Chlorate</td>
<td></td>
<td>3811-04-9</td>
<td>231-100-4</td>
<td>&lt;5%</td>
</tr>
<tr>
<td>Waxy sawdust</td>
<td></td>
<td>mixture</td>
<td>none</td>
<td>&lt;5%</td>
</tr>
<tr>
<td>Polyvinyl Chloride</td>
<td></td>
<td>9002-86-2</td>
<td>200-831-0</td>
<td>&lt;5%</td>
</tr>
<tr>
<td>Shellac</td>
<td></td>
<td>mixture</td>
<td>none</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>Charcoal</td>
<td></td>
<td>1333-86-4</td>
<td>231-153-3</td>
<td>&lt;1%</td>
</tr>
</tbody>
</table>

Pictograms

Signal Word

Warning

Hazard Statements

H315 /319 Causes skin and serious eye irritation

H335 May cause respiratory irritation

Precautionary Statements

P103 Keep out of reach of children

P261 Avoid breathing dust/smoke.

P264 Do not eat, drink or smoke when using this product.

P270 Wash hands thoroughly after handling.

P271 Do not eat, drink or smoke when using this product.

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 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>
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<tr>
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<td>mixture</td>
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<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 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: If the product is ingested, call a POISON CENTER.

EMERGENCY CHEMTREC
1-800-424-9300

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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.

**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, groundwater 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**

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Exposure Limits</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strontium Nitrate</td>
<td>Not Established</td>
<td>Not Established</td>
<td>Not Established</td>
</tr>
<tr>
<td>Sulfur</td>
<td>Not Established</td>
<td>Nuisance dust 15 mg/m³.</td>
<td>Nuisance dust 15 mg/m³.</td>
</tr>
<tr>
<td>Potassium Nitrate</td>
<td>5 mg/m³</td>
<td>Not Established</td>
<td>TWA 5 mg/m³</td>
</tr>
<tr>
<td>Paraffinic Oil</td>
<td>No Airborne Exposure Limits established</td>
<td>No Airborne Exposure Limits established</td>
<td>Not Established</td>
</tr>
<tr>
<td>Potassium Chlorate</td>
<td>No known hazardous components above regulatory thresholds in this product.</td>
<td>No known hazardous components above regulatory thresholds in this product.</td>
<td>Not Established</td>
</tr>
<tr>
<td>Waxy sawdust</td>
<td>Not Established</td>
<td>Nuisance dust 15 mg/m³.</td>
<td>Nuisance dust 15 mg/m³.</td>
</tr>
<tr>
<td>Polyvinyl Chloride</td>
<td>Not Established</td>
<td>Not Established</td>
<td>Not Established</td>
</tr>
<tr>
<td>Shellac</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Charcoal</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Exposure controls**

<table>
<thead>
<tr>
<th>Engineering Controls</th>
<th>Use product outdoors only! When cleaning up contents, use local and/or general exhaust.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Personal Protective Equipment</td>
<td>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.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Eye / Face Protection</th>
<th>Safety glasses or goggles</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Protection</td>
<td>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.</td>
</tr>
<tr>
<td>Respiratory Protection</td>
<td>None under normal conditions when using product. A particulate respirator (NIOSH T195 or better filters) may be worn during the cleanup of spilled materials.</td>
</tr>
<tr>
<td>General Hygiene</td>
<td>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.</td>
</tr>
</tbody>
</table>
9. Physical and Chemical Properties

| **Appearance (color, physical form, shape):** | Yellow to grey powder |
| **pH:** | Not available |
| **Boiling Point / Range:** | Not applicable |
| **Vapor Pressure:** | Not applicable |
| **Odor:** | No data available |
| **Flammability:** | No data available |
| **Partition Coefficient:** | No data available |
| **Auto Ignition Temperature:** | 360°F |
| **Melting Point:** | Not available |
| **Freezing Point:** | Not applicable |
| **Specific Gravity:** | Not applicable |
| **Odor Threshold:** | No data available |
| **Flammability Limits:** | No data available |
| **Viscosity:** | No data available |
| **Solubility:** | Not available |
| **Evaporation Rate:** | Not applicable |
| **Vapor Density:** | Not applicable |
| **Flash Point:** | Not available |
| **Relative Density:** | No data available |
| **Decomposition Temperature:** | No data available |

10. Stability and Reactivity

- **Chemical Stability:** Stable
- **Reactivity:** No information available
- **Possibility of Hazardous Reactions:** Dangerous 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; chloride salts.
- **Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, sulfur oxides, and nitrogen oxides.

11. Toxicology Information

### Ingredient acute toxicity information

<table>
<thead>
<tr>
<th><strong>Ingredient</strong></th>
<th><strong>Oral LD50</strong></th>
<th><strong>Skin LD50</strong></th>
<th><strong>LC50</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Strontium Nitrate</td>
<td>Rat: &gt;2750 mg/kg</td>
<td>No information found</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>Sodium Nitrate</td>
<td>Rat: &gt;3750 mg/kg</td>
<td>No information found</td>
<td>No information found</td>
</tr>
<tr>
<td>Paraffin Oil</td>
<td>Rat: &gt;2000 mg/kg</td>
<td>Rabbit: &gt;2000 mg/kg</td>
<td>No information found</td>
</tr>
<tr>
<td>Sodium Chlorate</td>
<td>Rat: 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>Not stated</td>
<td>Not stated</td>
</tr>
<tr>
<td>Polyvinyl Chloride</td>
<td>Rat: &gt;5000 mg/kg</td>
<td>no known hazardous components above regulatory thresholds in this product.</td>
<td>no known hazardous components above regulatory thresholds in this product.</td>
</tr>
<tr>
<td>Shellac</td>
<td>Rat: 10000 mg/kg</td>
<td>No information found</td>
<td>No information found</td>
</tr>
<tr>
<td>Charcoal</td>
<td>Rat: 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**
- **Contents irritating to eyes due to chemical and physical properties of the mixture. Ingestion 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. Inhalation of contents or smoke from burning flare will cause irritation to the lungs and mucus membrane. Prolonged or repeated skin contact with contents may cause dermatitis.**
- **No information found**

### Delayed and immediate effects and chronic effects from short and long term exposure

### Interactive effects

### Ecological Information

- **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 onchorhynchus mykiss (rainbow trout) 1750 mg/l – 96 hr, EC50 daphnia magna (water flea) 1053 mg/L 24 hr
  - Paraffin Oil: Oil Mist, Mineral Lepomis macrochirus (LC50) 96 hour(s) >100 mg/L Onchorhynchus mykiss (LC50) 96 hour(s) >100 mg/L
  - Potassium Nitrate: Fish: Guppy (Poecilia Reticulata) LC50 180 mg/L (96 h); zooplankton: Daphnia magna LC50 490mg/L - 48hr

- **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

- **Other adverse effects:** Potassium Nitrate: Will likely be mobile in the environment due to its water solubility.

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>
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<td></td>
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<td></td>
</tr>
<tr>
<td>No inner packaging</td>
<td>*NA1325</td>
<td>Fusee</td>
<td>4.1</td>
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<td>EX1992090001</td>
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<tr>
<td>Retail Packaging</td>
<td>**UN3178</td>
<td>Flammable solid, inorganic (highway flares or fusees)</td>
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<td>II</td>
<td>EX2002110114</td>
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<td>Ground only</td>
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<tr>
<td>International / Air</td>
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<tr>
<td>Inner Packaging (bag)</td>
<td>UN0373</td>
<td>Signal devices, hand</td>
<td>1.4S</td>
<td></td>
<td>EX1992090001</td>
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<td>Air / ground</td>
</tr>
</tbody>
</table>

* As noted on EX1992090001

** According to 49CFR, Exception for Class 4, flares properly packaged and classified as UN3178, Flammable solid, inorganic (highway flares or fusees), may be renamed “Consumer Commodity” and reclassified 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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<tr>
<td>Strontium Nitrate</td>
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</tr>
<tr>
<td>Sulfur</td>
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<td>no</td>
<td>no</td>
<td>yes</td>
<td>no</td>
<td>no</td>
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<tr>
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<td>Paraffinic Oil</td>
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<td>Shellac Mixture</td>
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<td>no</td>
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<tr>
<th>US States</th>
<th>Prop 65</th>
<th>NJ</th>
<th>PA</th>
<th>Canada</th>
<th>WHMIS</th>
<th>DSL</th>
<th>Europe</th>
<th>Wkg</th>
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</thead>
<tbody>
<tr>
<td>Strontium Nitrate</td>
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<td>1743</td>
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<td>C Oxidizing materials D1B Toxic materials D2B Toxic materials</td>
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<tr>
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<td>C Oxidizing materials</td>
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<td>Paraffinic Oil</td>
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<td>yes</td>
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<td>C Oxidizing materials D1B Toxic materials</td>
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<td>2</td>
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<tr>
<td>Waxy sawdust</td>
<td>yes</td>
<td>No</td>
<td>no</td>
<td></td>
<td>No results</td>
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<td>not listed</td>
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<tr>
<td>Shellac Mixture</td>
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<td>No</td>
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<td>No results</td>
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<td>not listed</td>
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</tr>
<tr>
<td>Charcoal</td>
<td>yes</td>
<td>Yes</td>
<td>yes</td>
<td></td>
<td>D2A Very toxic materials D2B Toxic materials</td>
<td>yes</td>
<td>Nwg</td>
<td></td>
</tr>
</tbody>
</table>

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:
- WHMIS: hazardous material identification system
- TSCA: toxic substance control act - US
- CERCLA: comprehensive environmental response, compensation and liability act – US
- CWA: clean water act - US
- CAA: clean air act - US
- SARA: superfund amendments and reauthorization act – US
- PROPS: California’s Proposition 65 list
- WHMIS: workplace hazardous materials information system - Canada
- DSL: Domestic Substances List - Canada
- WKG: water hazard classes - Germany
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