

## **SAFETY DATA SHEET**

EFFECTIVE DATE: 06/06/17

**ITEM:** Flare Kit Plus Emergency Kit Flare Kit Plus Emergency Kit - single

PART # UPC

8905 039147108058

8905S same

**CONTENTS:** 

Red Emergency Flare SDS

Lightstick SDS

Moist Towelette SDS



#### Fluorescent material

#### 1. Identification

#### (a) Product identifier

Fluorescent material Product name:

#### (b) Other means of identification

Product description: GLOW STICK, GLOW BRACELET, GLOW NECKLACE, GLOW

CUP, GLOW WAND WITH ASST COLORS

RED/GREEN/BLUE/YELLOW/PINK/ORANGE/PURPLE/WHITE/A

QUA

#### (c) Recommended use of the chemical and restrictions on use

Recommended use: Used in decoration. Restriction on use: No information available.

#### (d) Details of the supplier of the product

Company name Xiamen Long Afterglow Co.,Ltd

Address: NO.1043, Tong Ji Road, Tong An Area, Xiamen, Fujian Province,

China

E-mail: Tommy@glo-noveltv.com

Telephone: +86-592-3675699 +86-592-3675400 Fax:

#### (e) Emergency phone number

+86-592-3675699

#### 2. Hazard(s) identification

#### (a) Classification of the chemical

This product is not classified as hazardous.

#### (b) Label elements

This product is not classified as hazardous.

Pictogram(s): No pictogram is used. No signal word is used. Signal word: Hazard statements: No hazard statements.

Precautionary statements: No precautionary statements.

#### (c) Description of any hazards not otherwise classified

No information available.

#### (d) Ingredient with unknown acute toxicity

No information available.

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#### Fluorescent material

#### 3. Composition/information on ingredients

#### (a) Mixtures information

Chemical name	CAS No.	Concentration
Dimethyl Phthalate	131-11-3	58.5%
Butyl Benzoate	136-60-7	28.5%
CPPO	75203-51-9	4.7%
Hydrogen Peroxide	7722-84-1	2.2%
H2O	7732-18-5	6.0%
Fluorescer	10075-85-1	0.1%

#### 4. First-aid measures

#### (a) Description of first aid measures

Inhalation: Move to fresh air in case of accidental inhalation of vapours or

decomposition products. If you feel unwell, seek medical advice.

Skin contact: Wash off with soap and plenty of water. If skin irritation persists, call a

physician.

Eye contact: Rinse with plenty of water immediately, also under the eyelids, for at

least 15 minutes. If eye irritation persists, consult a specialist.

Ingestion: Rinse mouth. Do not induce vomiting. Call a physician immediately.

#### (b) Most important symptoms/effects, acute and delayed

No information available.

#### (c) Immediate medical attention and special treatment

Treat symptomatically. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

#### 5. Fire-fighting measures

#### (a) Extinguishing media

Suitable extinguishing media: Use carbon dioxide, dry extinguishing media,

water spray, water.

Unsuitable extinguishing media: No information available.

#### (b) Special hazards arising from the chemical

Combustion produces toxic or irritating gases and fumes.

#### (c) Special protective equipment and precautions for fire-fighters

Firefighters must wear fire resistant protective equipment. Wear self-contained breathing apparatus.

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#### Fluorescent material

#### 6. Accidental release measures

#### (a) Personal precautions, protective equipment and emergency procedures

Handle in accordance with good industrial hygiene and safety practice.

#### (b) Methods and materials for containment and cleaning up

For large amounts: Transfer product into suitable containers.

For residues: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr). Dispose of absorbed material in accordance with regulations

#### 7. Handling and storage

#### (a) Precautions for safe handling

Ensure thorough ventilation of stores and work areas.

#### (b) Conditions for safe storage, including any incompatibilities

Further information on storage conditions: Containers should be stored tightly sealed in a dry place.

#### 8. Exposure controls/personal protection

#### (a) Control parameters

	OS	SHA	NIC	DSH
Component	PEL-TWA	PEL-STEL	REL-TWA	REL-STEL
131-11-3	5 mg/m3	Not Established	5 mg/m3	Not Established
136-60-7	Not Established	Not Established	Not Established	Not Established
75203-51-9	Not Established	Not Established	Not Established	Not Established
7722-84-1	1.4 mg/m3	Not Established	1.4 mg/m3	Not Established
7732-18-5	Not Established	Not Established	Not Established	Not Established
10075-85-1	Not Established	Not Established	Not Established	Not Established

#### (b) Appropriate engineering controls

Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

#### (c) Personal protective equipment

Respiratory protection: The following respirators and maximum use concentrations

are drawn from NIOSH and/or OSHA.

50 mg/m3

Any air-purifying full-facepiece respirator equipped with an N95, R95, or P95 filter. The following filters may also be used:

N99, R99, P99, N100, R100 or P100.

125 mg/m3

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#### Fluorescent material

Any supplied-air respirator operated in a continuous-flow mode.

Any powered, air-purifying respirator with a high-efficiency particulate filter.

250 mg/m3

Any air-purifying, full-facepiece respirator equipped with an N100, R100, or P100 filter.

Any self-contained breathing apparatus with a full facepiece.

Any supplied-air respirator with a full facepiece.

2000 mg/m3

Any supplied-air respirator with a full facepiece that is operated in a pressure-demand or other positive-pressure mode.

Emergency or planned entry into unknown concentrations or **IDLH** conditions

Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode.

Any supplied-air respirator with a full facepiece that is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive-pressure mode.

Escape

Any air-purifying, full-facepiece respirator equipped with an N100, R100, or P100 filter.

Any appropriate escape-type, self-contained breathing

apparatus.

Hand protection: Wear appropriate chemical resistant gloves.

Eye/face protection: Wear splash resistant safety goggles. Provide an emergency

eye wash fountain and guick drench shower in the immediate

work area.

Skin/body protection: Wear appropriate chemical resistant clothing.

## 9. Physical and chemical properties

(a) Appearance	Liquid
(b) Odor	Not available.
(c) Odor threshold	Not available.
(d) pH	Not available.
(e) Melting point/freezing point	Not available.
(f) Initial boiling point and boiling range	Not available.

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#### Fluorescent material

(g) Flash point >200°F (93.3°C) Closed Cup

(h) Evaporation rate Not available.

(i) Flammability No

(j) Upper/lower flammability or explosive limits Not available. (k) Vapor pressure Not available. (I) Vapor density Not available. (m) Relative density Not available. (n) Solubility(ies) Not available. (o) Partition coefficient: n-octanol/water Not available. (p) Auto-ignition temperature Not available. (q) Decomposition temperature Not available. (r) Viscosity Not available.

#### 10. Stability and reactivity

#### (a) Reactivity

Stable under recommended storage and handling conditions (see section 7, handling and storage).

## (b) Chemical stability

Stable under normal conditions.

#### (c) Possibility of hazardous reactions

Will not polymerize.

#### (d) Conditions to avoid

Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.

#### (e) Incompatible materials

Acids, bases, oxidizing materials.

#### (f) Hazardous decomposition products

Carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>) and other toxic vapors.

#### 11. Toxicological information

## (a) Information on the likely routes of exposure

Inhalation:Not available.Ingestion:Not available.Skin contact:Not available.Eye contact:Redness.

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#### Fluorescent material

#### (b) Information on toxicological characteristics

Acute toxicity: 131-11-3 Oral LD50 Rat 6800 mg/kg (Source:

IUCLID)

136-60-7 No data available. 75203-51-9 No data available.

7722-84-1 Oral LD50 Rat 801 mg/kg (Source: IUCLID)

Dermal LD50 Rat 4060 mg/kg (Source: IUCLID); Dermal LD50 Rabbit 2000 mg/kg

(Source: IUCLID)

Inhalation LC50 Rat 2 g/m3 4 h (Source:

IUCLID)

10075-85-1 No data available.

**Skin** No data available.

corrosion/irritation:

Serious eye No data available.

damage/irritation:

**Respiratory** No data available.

sensitization:

**skin sensitization:** No data available.

Carcinogenicity: Not listed by IARC and NTP.

Germ Cell No data available.

Mutagenicity:

Reproductive Toxicity: No data available. STOT-Single No data available.

**Exposure:** 

STOT-Repeated No data available.

**Exposure:** 

Aspiration Hazard: No data available.

#### 12. Ecological information

#### (a) Ecotoxicity

131-11-3 Freshwater Fish: 96 Hr LC50 Pimephales promelas: 39 mg/L [flow-

through]; 96 Hr LC50 Lepomis macrochirus: 49.5 mg/L; 96 Hr LC50 Lepomis macrochirus: 37 - 69 mg/L [static]; 96 Hr LC50 Pimephales promelas: 121 mg/L [static]; 96 Hr LC50 Leuciscus idus: 100 - 220 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 56

mg/L [flow-through]

Water Flea: 48 Hr EC50 Daphnia magna: 33 mg/L

Freshwater Algae: 96 Hr EC50 Pseudokirchneriella subcapitata: 20.6 - 45.8 mg/L; 72 Hr EC50 Pseudokirchneriella subcapitata:



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28.4 - 71 mg/L; 96 Hr EC50 Pseudokirchneriella subcapitata: 142 mg/L [static]; 96 Hr EC50 Skeletonema costatum: 26.1 mg/L; 72 Hr

EC50 Desmodesmus subspicatus: 204 mg/L

136-60-7 No data available. 75203-51-9 No data available.

7722-84-1 Freshwater Fish: 96 Hr LC50 Pimephales promelas: 16.4 mg/L; 96

Hr LC50 Lepomis macrochirus: 18 - 56 mg/L [static]; 96 Hr LC50

Oncorhynchus mykiss: 10.0 - 32.0 mg/L [static]

Water Flea: 24 Hr EC50 Daphnia magna: 7.7 mg/L; 48 Hr EC50

Daphnia magna: 18 - 32 mg/L [Static]

Freshwater Algae: 72 Hr EC50 Chlorella vulgaris: 2.5 mg/L

10075-85-1 No data available.

#### (b) Persistence and Degradability

Based on best current information, there is no data known associated with this product.

## (c) Bioaccumulative potential

Based on best current information, there is no data known associated with this product.

#### (d) Mobility in soil

Based on best current information, there is no data known associated with this product.

#### (e) Other adverse effects

No information available.

#### 13. Disposal considerations

#### (a) Safe handling and methods of disposal

Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): U102. Dispose in accordance with all applicable regulations.

#### 14. Transport information

Not regulated as dangerous goods.
Not regulated as dangerous goods.
Not regulated as dangerous goods.
Not regulated as dangerous goods.
No
No information available.

No information available.

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(g) Special precautions

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#### 15. Regulatory information

# (a) Safety, health and environmental regulations specific for the product in question

CAS No.	USA TSCA	EU EINECS	Korea ECL	China IECSC	Canada DSL	
131-11-3	Listed	Listed	Listed	Listed	Listed	
136-60-7	Listed	Listed	Listed	Listed	Listed	
75203-51-9	Not listed	Listed	Listed	Not listed	Not listed	
7722-84-1	Listed	Listed	Listed	Listed	Listed	
7732-18-5	Listed	Listed	Listed	Listed	Listed	
10075-85-1	Listed	Listed	Listed	Not listed	NDSL	
Remark: The above-mentioned search results are based on the Non-Confidential Inventory.						

#### 16. Other information, including date of preparation or last revision

## (a) Preparation and revision information

Date of previous revision: Not applicable. Date of this revision: 23/12/2013

Revision summary: The first New SDS

#### (b) Abbreviations and acronyms

NIOSH The National Institute for Occupational Safety and Health

OSHA The United States Occupational Safety and Health Administration

TWA time-weighted average STEL Short term exposure limit

TSCA Toxic Substances Control Act, The American chemical inventory

DSL Domestic Substances List

EINECS European Inventory of Existing Commercial chemical Substances

ECL Existing Chemicals List, the Korean chemical inventory IECSC Inventory of existing chemical substances in China

IARC International agency for research on cancer

NTP National Toxicology Program

#### (c) Disclaimer

The information in this SDS is provided all the relevant data fully and truly. However, the information is provided without any warranty on their absolute extensiveness and accuracy. This SDS was prepared to provide safety preventive measures for the users who have got professional training. The personal user who obtained this SDS should make independent judgment for the applicability of this SDS under special conditions. In these special cases, we do not assume responsibility for the damage.

------ End of the SDS ------



#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Jiangsu TÜV Product Service Ltd. Guangzhou Branch

**TÜV SÜD Group** 

Engineer:

\_\_\_\_\_ Technical Report checked:

Kevin Zhang

Kevir

# MATERIAL SAFETY DATA SHEET January, 2009

## 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

.2% soap

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

Manufacturer's Name:

**SANFACON VIRGINIA, INC.** 

Address:

PO Box 600 18097 US Hwy 501 Brookneal, VA 24528

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#### Section II: Hazardous Ingredients

Hazardous components: N/A

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#### 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

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#### 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.



## SAFETY DATA SHEET

#### **Product and Company Identification**

Red Emergency Flare - No Perchlorate (NPC) Identification:

> The NPC flare will have the following symbol on it: **Formulation**

Synonyms: **Emergency Road Flare** 

Railway Flare

NSN#: 1370-01-009-2593

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

**Manufacturers Information** Orion Safety Products

28320 St. Michaels Rd Easton, MD 21601 800-637-7807 410-822-0318

**EMERGENCY CHEMTREC** 1-800-424-9300

#### 2. **Hazards Identification**

#### **GHS Classifications**

Skin Irritation Category 2 H315 Eve Irritation Category 2A H319 Category 3 STOT - Single Exposure H335

#### **GHS Label Elements**

**Pictograms** 

Hazard Statements

P305/338/351

P333/313

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

Signal Word

**Precautionary Statements** 

P103 Keep out of reach of children Avoid breathing dust/smoke. P261 P264 Wash hands thoroughly after handling. P270

Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective eye protection

P370 In case of fire: use water deluge P501 Dispose of contents / container in accordance with local and national regulations.

P301/315 IF SWALLOWED: Get immediate medical advice /attention. P302/352 IF ON SKIN: Wash with plenty of soap and water.

IF INHALED: Remove victim to fresh air and keep at rest in a position P304/340/342 comfortable for breathing If experiencing respiratory symptoms: Call a

POISON CENTER or doctor / physician.

IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

If skin irritation or rash occurs, get medical advice / attention.

Hazards Not Otherwise Classified (HNOC): produces hot flame

#### Composition / Information on Ingredients

Component	CAS#	EINCS #	%age
Strontium Nitrate	10042-76-9	233-131-9	<75%
Sulfur	7704-34-9	231-722-6	<25%
Potassium Nitrate	7757-79-1	231-818-8	<25%
Paraffinic Oil	64742-54-7	232-384-2	<10%
Potassium Chlorate	3811-04-9	231-100-4	<5%
Waxy sawdust	mixture	none	<5%
Polyvinyl Chloride	9002-86-2	200-831-0	<5%
Shellac	mixture	none	<1%
Charcoal	1333-86-4	231-153-3	<1%

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.

#### 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

Skin If contents are contacted, wash with area with soap and water for 15 minutes. Remove contaminated clothing and wash before

reuse. Get medical aid immediately if burned or irritation occurs.

If contents get into eye, flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Remove Eyes

contact lenses if easily possible. Do not use boric acid to rinse with; sulfur is an acid irritant. Get medical aid immediately.

Ingestion Get medical aid immediately.

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Most important symptoms and effects both acute and delayed

See section 2 labeling and section 11

Indication of any immediate medical attention and special treatment needed

Burning flare can cause severe burns if in contact with body. For burns to skin, cool with water and bandage appropriately. Seek medical attention. If eye is burned, cover eye and get medical aid immediately

#### 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.

No data available **Further information** 

#### 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**

Sulfur Potassium Nitrate

Paraffinic Oil

Potassium Chlorate

**Exposure Limits** Strontium Nitrate

OSHA PEL Not Established Not Established Nuisance dust 15 mg/m<sup>3</sup>. 5 mg/m3

No Airborne Exposure Limits established

Not Established Waxy sawdust No known hazardous components above Polyvinyl Chloride regulatory thresholds in this product. Shellac

Not Established Nuisance dust 15 mg/m<sup>3</sup>.

**ACGIH TLV** Not Established Not Established Nuisance dust 15 mg/m<sup>3</sup>.

TWA 5 mg/m3 No Airborne Exposure Limits established Not Established

No known hazardous components above regulatory

thresholds in this product. Not Established Nuisance dust 15 mg/m<sup>3</sup>.

#### Charcoal **Exposure controls**

**Engineering Controls** 

Use product outdoors only! When cleaning up contents, use local and/or general exhaust.

**Personal Protective Equipment** 

Eye / Face Protection Safety glasses or goggles

> Skin Protection None under normal conditions when using product unless prolonged handling is anticipated. Impervious protective

clothing, including gloves, boots, and a lab coat, apron or coveralls, as appropriate, when cleaning up spilled

product. Wash hands and face before eating, drinking or using tobacco products.

Respiratory Protection None under normal conditions when using product. A particulate respirator (NIOSH t N95 or better filters) may be

worn during the cleanup of spilled materials.

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

materials.

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#### 9. Physical and Chemical Properties

Yellow to grey powder Appearance (color, physical form, shape):

Not available Not available Not available pH: **Melting Point:** Solubility: Not applicable Freezing Point: Not applicable Not applicable **Boiling Point / Range: Evaporation Rate:** Vapor Pressure: Not applicable Specific Gravity Not applicable Vapor Density: Not applicable No data available No data available Odor Threshold: Not available Odor: Flash Point: No data available No data available No data available Flammability: Flammability Limits: Relative Density:

No data available No data available **Partition Coefficient:** Viscosity:

**Auto Ignition Temperature:** 360°F **Decomposition Temperature:** No data available

#### 10. Stability and Reactivity

Possibility of Hazardous Hazardous polymerization will not occur Chemical Stability Stable No information available Reactivity:

Reactions

**Hazardous Decomposition Products** 

Conditions to Avoid Combustible materials, heat, flames, sparks and other sources of ignition. Moisture.

Incompatible Materials Strong acids, strong fuels, ammonia salts, and strong bases. Strong oxidizers; chlorate salts.

Carbon monoxide, carbon dioxide, sulfur oxides, and nitrogen oxides.

#### **Toxicology Information**

Ingredient acute toxicity information

Ingredient Oral LD50 skin LD50 LC50 No information found Strontium Nitrate Rat: 2750 mg/kg No information found Sulfur Rat:>2000 mg/kg Rat:>2000 mg/kg Rat: 79.23 mg/L 4hr Potassium Nitrate Rat: 3750 mg/kg No information found No information found Paraffinic Oil Rat: >2000 mg/kg Rat: >2000 mg/kg No information found Potassium Chlorate Rat: 1870 mg/kg Rabbit: > 2000 mg/kg No information found Waxy sawdust Rat: > 5000 mg/kg not stated not stated no known hazardous components above no known hazardous components above Polyvinyl Chloride Rat: > 5000 mg/kg regulatory thresholds in this product. regulatory thresholds in this product. Shellac Rat: 10000 mg/kg No information found No information found Charcoal Rat: 15400 mg/kg Rabbit: 3 g/kg No information found

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

STOT - single exposure Category 3 – respiratory over 10% of ingredients classified as a Category 3 respiratory STOT hazard

STOT - repeated exposure Not classified (Based on available data, the classification criteria are not met) **Aspiration Hazard** Not classified (Based on available data, the classification criteria are not met)

Likely routes of exposure Skin, ingestion, inhalation

Symptoms related to the physical, chemical and toxicological

characteristics

Contents irritating to eyes due to chemical and physical properties of the mixture. Ingestion of contents may cause gastrointestinal irritation with nausea, vomiting and diarrhea. Individuals with known allergies to sulfide drugs may also have allergic reactions

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

Interactive effects

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

#### 12. **Ecological Information**

#### Ingredient toxicity / persistence / degradability / bioaccumulation / mobility in soil and water

Strontium Nitrate: Acute toxicity - Fishes, Carassius auratus, LC100, 9,615 mg/l; Chronic toxicity - Fishes, Gasterosteus Aquatic Toxicity

aculeatus, LC100, 2.912 mg/l

Sulfur: Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) -> 180 mg/l - 96 h Toxicity to daphnia and other

aquatic invertebrates: EC50 - Daphnia magna (Water flea) - > 5,000 mg/l - 48 h

Potassium Chlorate: fish: LC50 oncorhynchus mykiss (rainbow trout) 1750 mg/l – 96 hr, EC50 daphnia magna (water flea) 1093 mg/l 24 hr

Paraffinic Oil: Oil Mist, Mineral Lepomis macrochirus (LC50) 96 hour(s) >100 mg/l Oncorhynchus mykiss (LC50) 96 hour(s) >100 mg/l

Potassium Nitrate: fish: Guppy (Poecilia Reticulata) LC50 180 mg/L (96 h); zooplankton: Daphnia magna

LC50 490mg/l - 48hr

Persistence / Degradability Bioaccumulation / Accumulation Mobility in Environmental Media

Potassium Nitrate: Soluble in water Persistence is unlikely based on information available.

No information found

Strontium Nitrate: Water:: considerable solubility and mobility; Soil/sediments non-significant adsorption

Potassium Nitrate: Will likely be mobile in the environment due to its water solubility.

Other adverse effects No information found

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#### 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. Transpor	rtation In	formation					
<u>Description</u>	ID Number	shipping name	hazard <u>class</u>	packing group	EX Number	Reportable Quantities	Shipping <u>method</u>
Domestic Shipments				-			
No inner packaging	*NA1325	Fusee	4.1	II	EX1992090001	none	Ground only
Retail Packaging	**UN3178	Flammable solid, inorganic (highway flares or fusees)	4.1	II	EX2002110114	none	Ground only
International / Air							
Inner Packaging (bag)	UN0373	Signal devices, hand	1.4S		EX1992090001	none	Air / ground

<sup>\*</sup> As noted on EX1992090001

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

15. Reg	ulatory	1111011	liation									
US Regulat	tions	TSCA	CERCLA	CWA	CAA	SARA 313	SARA 302	Acute	Chronic	Fire	Reactivity	Pressure
Strontium Nitrate		yes	no	no	no	no	no	yes	no	no	yes	no
Sulfur		yes	no	no	no	no	no	yes	no	yes	no	no
Potassium Nitrate		yes	no	no	no	yes	no	no	no	no	yes	no
Paraffinic Oil		yes	no	no	no	no	no	no	no	no	no	no
Potassium Chlorate		yes	no	no	no	no	no	yes	no	no	yes	no
Waxy sawdust		yes	no	no	no	no	no	no	no	no	no	no
Polyvinyl Chloride		yes	no	no	no	no	no	yes	no	no	no	no
Shellac Mixture		yes	no	no	no	yes	no	unknown	unknown	unknown	unknown	Unknown
Charcoal		yes	no	no	no	no	no	no	no	no	no	No
<b>US States</b>	Prop 65	NJ	PA	Canada			WHMIS		DSL	E	urope	Wgk
Strontium Nitrate	no	1743	no		C Ox		rials D1B To	xic materials D2B	yes			2
Sulfur	no	1757	yes		B4 F	lammable	solid D2B	Toxic materials	yes			1 / nwg
Potassium Nitrate	no	1574	yes			CO	xidizing mate	erials	yes			1
Paraffinic Oil	no	1437	no				No results	3	yes			not listed
Potassium Chlorate	yes	1560	yes		CC	xidizing ma	iterials D1B	Toxic materials	yes			2
Waxy sawdust	yes	No	no				No results	3	yes			not listed
Polyvinyl Chloride	no	3622	no				No results	3	yes			not listed
Shellac Mixture	no	No	no				No results	3	unknown			not listed
Charcoal	yes	Yes	yes				ery toxic m Toxic mate		yes			Nwg

#### 16. Other Information

**Revision Information:** 

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

#### Key / Legend:

HMIS: hazardous material identification system NFPA: national fire protection association CAS: Chemical Abstracts Service number EINECS: European inventory of existing chemical substances OSHA PEL: occupational safety and health administration permissible exposure limit NIOSH TLV: national institute of occupational safety and health Threshold Limit Value TSCA: toxic substance control act - 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 PROP 65:California's Proposition 65 list

WHMIS: workplace hazardous materials information system - Canada DSL: Domestic Substances List - Canada WGK: water hazard classes - Germany

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



#### **Legal Statement**

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