



SAFETY DATA SHEET

Be Ready Kit

SDS EXEMPTION NOTICE:

This survival kit and the items it contains covered in this document are exempt and are not subject to the OSHA Hazard Communication Standard requirement. This sheet is provided as a service to our customers.

Safety Data Sheets (SDS) are a sub-requirement of the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard, 29 CFR Subpart 1910.1200. This Hazard Communication Standard does not apply to various subcategories including anything defined by OSHA as an "article" [Reference: 29 CFR 1910.1200(b)(6)(v)] or by the Food and Drug Administration (FDA) as a "drug" packaged for sale to consumers in a retail establishment [Reference: 29 CFR.1200 (b)(6)(vii)].

OSHA has defined "article" as a manufactured item other than a fluid or particle; (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities, e.g. minute or trace amounts of a hazardous chemical, and does not pose a physical hazard or health risk to employees.

Because the survival kit and the matches and batteries it contains are defined as "articles," and the hand sanitizer contained is a "drug," the survival kit and its contents are exempt from the requirements of the Hazard Communication Standard; hence an OSHA SDS in accordance with the Global Harmonized System (GHS) is not required.

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name Be Ready Kit

Other means of identification

Synonyms Survival Kit; Bug-Out Bag; Survival Back Pack
Part No. 20-02710

Recommended use of the chemical and restrictions on use

Recommended Use For outdoor, camping and emergency use.

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Name UST Brands
Supplier Address 7720 Philips Highway
Jacksonville
Florida
32256
USA
Supplier Phone Number Phone:904-786-0033
Fax:904-786-0890
Supplier Email sales@ustbrands.com

Emergency telephone number

INFOTRAC USA or Canada: 1-800-535-5053 International: 1-352-323-3500

SDS No.: 1027
Issue Date: Dec 7/2015
Revision Date: Dec 7/2015
Revision: A
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Be Ready Kit

2. HAZARDS IDENTIFICATION

The Be Ready Kit Contains:

- One (1) Box of 40 Safety Matches.
 - Total Weight in Kit: 10g = 4g matches + 6g box
 - UN1944 Matches, Safety, Hazard Class 4.1, Packing Group III
 - **REFER TO UST BRANDS SDS No. 1017 ATTACHED.**
- One (1) Plastic Bottle Hand Sanitizer.
 - Total Volume in Kit: 2 fl oz (59 ml)
 - UN1170 Ethanol Solution, Hazard Class 3, Packing Group III
 - **REFER TO UST BRANDS SDS No. 1025 ATTACHED.**
- One (1) Flashlight with two (2) CR2032 Lithium Metal Button Cell Batteries Installed.
 - UN3091 Lithium Metal Batteries Contained in Equipment
 - **REFER TO BATTERY MANUFACTURER'S MSDS, SDS, AND/OR PRODUCT INFORMATION SHEET ATTACHED.**
- Three (3) Light Sticks
 - Unregulated in all modes of transportation
 - **REFER TO UST BRANDS SDS No. 1026 ATTACHED.**

3. COMPOSITION/INFORMATION ON INGREDIENTS

REFER TO UST BRANDS SDS Nos. 1017, 1025, AND 1026 ATTACHED.

REFER TO BATTERY MANUFACTURER'S MSDS, SDS, AND/OR PRODUCT INFORMATION SHEET ATTACHED.

4. FIRST AID MEASURES

REFER TO UST BRANDS SDS Nos. 1017, 1025, AND 1026 ATTACHED.

REFER TO BATTERY MANUFACTURER'S MSDS, SDS, AND/OR PRODUCT INFORMATION SHEET ATTACHED.

5. FIRE-FIGHTING MEASURES

REFER TO UST BRANDS SDS Nos. 1017, 1025, AND 1026 ATTACHED.

REFER TO BATTERY MANUFACTURER'S MSDS, SDS, AND/OR PRODUCT INFORMATION SHEET ATTACHED.

6. ACCIDENTAL RELEASE MEASURES

REFER TO UST BRANDS SDS Nos. 1017, 1025, AND 1026 ATTACHED.

REFER TO BATTERY MANUFACTURER'S MSDS, SDS, AND/OR PRODUCT INFORMATION SHEET ATTACHED.

This kit contains several hermetically sealed, foil pouches of drinking water. One or more of these pouches may burst if the kit is dropped. The water poses no danger and can be allowed to dry.

7. HANDLING AND STORAGE

REFER TO UST BRANDS SDS Nos. 1017, 1025, AND 1026 ATTACHED.

REFER TO BATTERY MANUFACTURER'S MSDS, SDS, AND/OR PRODUCT INFORMATION SHEET ATTACHED.



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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

REFER TO UST BRANDS SDS Nos. 1017, 1025, AND 1026 ATTACHED.
REFER TO BATTERY MANUFACTURER'S MSDS, SDS, AND/OR PRODUCT INFORMATION SHEET ATTACHED.

9. PHYSICAL AND CHEMICAL PROPERTIES

REFER TO UST BRANDS SDS Nos. 1017, 1025, AND 1026 ATTACHED.
REFER TO BATTERY MANUFACTURER'S MSDS, SDS, AND/OR PRODUCT INFORMATION SHEET ATTACHED.

10. STABILITY AND REACTIVITY

REFER TO UST BRANDS SDS Nos. 1017, 1025, AND 1026 ATTACHED.
REFER TO BATTERY MANUFACTURER'S MSDS, SDS, AND/OR PRODUCT INFORMATION SHEET ATTACHED.

11. TOXICOLOGICAL INFORMATION

REFER TO UST BRANDS SDS Nos. 1017, 1025, AND 1026 ATTACHED.
REFER TO BATTERY MANUFACTURER'S MSDS, SDS, AND/OR PRODUCT INFORMATION SHEET ATTACHED.

12. ECOLOGICAL INFORMATION

REFER TO UST BRANDS SDS Nos. 1017, 1025, AND 1026 ATTACHED.
REFER TO BATTERY MANUFACTURER'S MSDS, SDS, AND/OR PRODUCT INFORMATION SHEET ATTACHED.

13. DISPOSAL CONSIDERATIONS

REFER TO UST BRANDS SDS Nos. 1017, 1025, AND 1026 ATTACHED.
REFER TO BATTERY MANUFACTURER'S MSDS, SDS, AND/OR PRODUCT INFORMATION SHEET ATTACHED.



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14. TRANSPORT INFORMATION

One (1) kit per single outer package is unregulated when transported in the U.S. by road or rail when marked "UN1944, Safety Matches" per 49 CFR 173.186(c).

	DOT (Domestic Surface Transportation)	DOT (Domestic Air Transportation)	INTERNATIONAL
UN number	UN1944	UN1944	UN1944 UN1170
UN proper shipping name	Matches, safety Ground shipments not regulated when shipped in accordance with 49 CFR173.186(c).	Matches, safety	Matches, Safety Ethanol Solution
Transport hazard class(es)	DOT Hazard Class: 4.1	DOT Hazard Class: 4.1 DOT Label: 4.1	Hazard Class: 4.1 and 3
Packing group	III	III	III

DOT Domestic Transportation Regulation Details:

Each kit contains one (1) Box of 40 Safety Matches.

Total Weight in Kit: 10g = 4g matches + 6g box

UN1944 Matches, Safety, Hazard Class 4.1, Packing Group III

One (1) kit per single outer package is unregulated when transported by road/rail when marked "UN1944, Safety Matches" per 49 CFR 173.186(c).

Each kit contains one (1) Plastic Bottle Hand Sanitizer.

Total Volume in Kit: 2 fl oz (59 ml)

UN1170 Ethanol Solution, Hazard Class 3, Packing Group III

One (1) kit per single outer package is unregulated when transported by road or rail per 49 CFR 173.150(g)(1)(i) and (iii).

OR Ships by road/rail as ORM-D per 49 CFR 173.150(c).

One (1) kit per single outer package is unregulated when transported by passenger or cargo aircraft per 49 CFR 173.150(g)(3).

Each kit contains one (1) Flashlight with two (2) CR2032 Lithium Metal Button Cell Batteries Installed.

UN3091 Lithium Metal Batteries Contained in Equipment

CR2032 is a button cell battery. A button cell battery is defined in the UN Manual of Tests and Criteria as a round cell or battery with an overall height less than the diameter.

Button cells installed in equipment are exempt from the hazard communication requirements (labelling, marking, etc.) of the DOT hazmat regulations.

One (1) kit per single outer package is unregulated when transported by road, rail, passenger, or cargo aircraft per 49 CFR 173.185(c)(3).

Environmental hazards; Special precautions for user; Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

REFER TO UST BRANDS SDS Nos. 1017, 1025, AND 1026 ATTACHED.

REFER TO BATTERY MANUFACTURER'S MSDS, SDS, AND/OR PRODUCT INFORMATION SHEET ATTACHED.



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15. REGULATORY INFORMATION

REFER TO UST BRANDS SDS Nos. 1017, 1025, AND 1026 ATTACHED.

REFER TO BATTERY MANUFACTURER'S MSDS, SDS, AND/OR PRODUCT INFORMATION SHEET ATTACHED.

16. OTHER INFORMATION

REFER TO UST BRANDS SDS Nos. 1017, 1025, AND 1026 ATTACHED.

REFER TO BATTERY MANUFACTURER'S MSDS, SDS, AND/OR PRODUCT INFORMATION SHEET ATTACHED.

Disclaimer of Liability: Since conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this product. The information contained in this SDS is believed to be true and accurate. All statements or suggestions are made without warranty, express or implied, regarding the accuracy of the information, the hazards connected with the use of the product, or the results to be obtained from the use thereof. Compliance with all federal, state, and local laws and regulations remains the responsibility of the user.

User Responsibility: This SDS cannot cover all possible situations which the distributor, retailer, or end user may experience during transport, storage, processing, or use. The user should examine each aspect of his operation and determine if additional precautions should be taken. All health and safety information contained in this SDS should be provided to the user's employees or customers. It is the user's responsibility to use this information to develop appropriate work practice guidelines and employee training programs for his operation.

End of Safety Data Sheet

Material Safety Data Sheet

Client	Changzhou Lithium Batteries Ltd.
Add. of Client	No.35 Taihu West Road, New North District, Changzhou, Jiangsu, PRCC
Description	Primary Coin Lithium Manganese Dioxide Battery
Model /Type	CR2032, CR927, CR1025, CR1130, CR1216, CR1220, CR1230, CR1225, CR1616, CR1625, CR1620, CR1632, CR2016, CR2025, CR2320, CR2330, CR2430, CR2450, CR2477
Manufacturer	Changzhou Lithium Batteries Ltd.
Add. of Manufacturer	No.35 Taihu West Road, New North District, Changzhou, Jiangsu, PRCC
Nominal Voltage	3.0V, 30-1000mAh
Date of Receipt	2015-01-29

Laboratory	Shenzhen ZRLK Testing Technology Co., Ltd.
Address	3F, HengFengYuan Business Building, QunHui Road, Bao'an District, ShenZhen, P.R.C (518101)

Approved Signatory
Williau. liu

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Inspected by
Bella.Wang

Bella.Wang

Censored by
Frank. feng

Frank.feng





Section 1- Chemical Product and Company Identification

1. Chemical Product Identification

Product name: Primary Coin Lithium Manganese Dioxide Battery

Model: CR2032, CR927, CR1025, CR1130, CR1216, CR1220, CR1230, CR1225, CR1616, CR1625, CR1620, CR1632, CR2016, CR2025, CR2320, CR2330, CR2430, CR2450, CR2477

2. Company Identification

Manufacturer /Supplier Name: Changzhou Lithium Batteries Ltd.

Address: No.35 Taihu West Road, New North District, Changzhou, Jiangsu, PRCC

Telephone number of the supplier: 0086-0519-85100885

Emergency Telephone No.(24h): 0086-0519-85100885

e-mail address: zhangzhengquan@czliba.com

This MSDS was prepared by Shenzhen ZRLK Testing Technology Co., Ltd.

Referenced documents: ISO 11014:2009 Safety data sheet for chemical products;

Section 2 – Hazards Identification

Preparation hazards and classification	When the battery is In extreme pressure deformation, high-temperature environment, overload, short-circuit condition, or disassemble the battery, an explosion of fire and chemical burn hazards may occur.
Apperance, Color, and Odor	Solid object with no odor, no color.
Primary Route(s) of Exposure	These chemicals are contained in a sealed stainless steel enclosure. Risk of exposure occurs only if the cell is mechanically, thermally or electrically abused to the point of compromising the enclosure. If this occurs, exposure to the electrolyte solution contained within can occur by Inhalation, Ingestion, Eye contact and Skin contact
Potential Health Effects:	ACUTE (short term): see Section 8 for exposure controls In the event that this battery has been ruptured, the electrolyte solution contained within the battery would be corrosive and can cause burns. Inhalation: A battery volatilizes no gas unless it was damaged. Damaged battery will volatilize little gas that may stimulate the respiratory tract or cause an anaphylaxis in serious condition. Ingestion: Swallowing battery will be Damaged to the respiratory tract and Cause chemical burns to the stomach; in serious conditions it will cause Permanent damage. Skin: In normal condition, Contact between the battery and skin will not cause any harms. Contact with a damaged battery may cause skin allergies or chemical burns. Eye: in normal condition, Contact between the battery and eyes will not cause any harms. However, the gas Volatilize from a damaged battery may be harmful to eyes. CHRONIC (long term): see Section 11 for additional toxicological data
Medical Conditions Aggravated by Exposure	Not applicable



Reported as carcinogen	Not applicable
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Section 3 – Composition/Information on Ingredients

Button battery is a mixture.

Hazardous Ingredients (Chemical Name)	Concentration or concentration ranges (%)	CAS Number
Manganese dioxide(MnO ₂)	25-30	1313-13-9
Polytetrafluoroethylene	0-1	9002-84-0
Graphite	2.5	7782-42-5
Lithium	2	7439-93-2
Propylene carbonate	4	108-32-7
Ethylene glycol dimethyl ether	3	110-71-4
Perchloric acid, lithium salt	0-1.5	7791-03-9
STAINLESS STEEL	50-60	65997-19-5
Polypropylene	0.1-0.3	9003-07-0

Note: CAS number is Chemical Abstract Service Registry Number.

N/A=Not apply.

Section 4 – First-aid Measures

Inhalation	If contents of an opened battery are inhaled, remove source of contamination or move victim to fresh air. Obtain medical advice.
Skin contact	If skin contact with contents of an open battery occurs, as quickly as possible remove contaminated clothing, shoes and leather goods. Immediately flush with lukewarm, gently flowing water for at least 30 minutes. If irritation or pain persists, seek medical attention. Completely decontaminate clothing, shoes and leather goods before reuse or discard.
Eye contact	If eye contact with contents of an open battery occurs, immediately flush the contaminated eye(s) with lukewarm, gently flowing water for at least 30 minutes while holding the eyelids open. Neutral saline solution may be used as soon as it is available. If necessary, continue flushing during transport to emergency care facility. Take care not to rinse contaminated water into the unaffected eye or onto face. Quickly transport victim to an emergency care facility.
Ingestion	If ingestion of contents of an open battery occurs, never give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Have victim rinse mouth thoroughly with water. DO NOT INDUCE VOMITING. Have victim drink 60 to 240 mL



	(2-8 oz.) of water. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Have victim rinse mouth with water again. Quickly transport victim to an emergency care facility.
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Section 5 – Fire-fighting Measures

Flammable Properties	In the event that this battery has been ruptured, the electrolyte solution contain within the battery would be flammable. Like any sealed container, battery cells may rupture when exposed to excessive heat; this could result in the release of flammable or corrosive materials.
Suitable extinguishing Media	Use extinguishing media suitable for the materials that are burning.
Unsuitable extinguishing Media	Not available
Explosion Data	Sensitivity to Mechanical Impact: This may result in rupture in extreme cases Sensitivity to Static Discharge: Not Applicable
Specific Hazards arising from the chemical	Fires involving Button battery was controlled with water. When water is used, however, hydrogen gas may evolve. In a confined space, hydrogen gas can form an explosive mixture. In this situation, smothering agents are recommended to extinguish the fire
Protective Equipment and precautions for firefighters	As for any fire, evacuate the area and fight the fire from a safe distance. Wear a pressure-demand, self-contained breathing apparatus and full protective gear. Fight fire from a protected location or a safe distance. Use NIOSH/MSHA approved full-face self-contained breathing apparatus (SCBA) with full protective gear.
NFPA	Health: 0 Flammability: 0 Instability: 0

Section 6 – Accidental Release Measures

Personal Precautions, protective equipment, and emergency procedures	Restrict access to area until completion of clean-up. Do not touch the spilled material. Wear adequate personal protective equipment as indicated in Section 8.
Environmental Precautions	Prevent material from contaminating soil and from entering sewers or waterways.
Methods and materials for Containment	Stop the leak if safe to do so. Contain the spilled liquid with dry sand or earth. Clean up spills immediately.
Methods and materials for cleaning up	Absorb spilled material with an inert absorbent (dry sand or earth). Scoop contaminated absorbent into an



	acceptable waste container. Collect all contaminated absorbent and dispose of according to directions in Section 13. Scrub the area with detergent and water; collect all contaminated wash water for proper disposal.
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Section 7 – Handling and Storage

Handling	<p>Do not dismantle, open or shred secondary Button battery;</p> <p>Don't handling Polymer Li-ion Battery with metalwork. Do not open, disassemble, crush or burn battery. Ensure good ventilation/ exhaustion at the workplace.</p> <p>Prevent formation of dust.</p> <p>Information about protection against explosions and fires: Keep ignition sources away- Do not smoke.</p>
Storage	<p>If the Button battery is subject to storage for such a long term as more than 3 months, it is recommended to recharge the Button battery periodically.</p> <p>3 months: -10°C~+40°C, 45 to 85%RH</p> <p>And recommended at -20°C~+25°C for long period storage.</p> <p>Do not storage Button battery haphazardly in a box or drawer where they may short-circuit each other or be short-circuited by other metal objects.</p> <p>Keep out of reach of children.</p> <p>Do not expose Button battery to heat or fire. Avoid storage in direct sunlight.</p> <p>Do not store together with oxidizing and acidic materials.</p>

Section 8 – Exposure Controls and Personal Protection

Engineering Controls	<p>Use local exhaust ventilation or other engineering controls to control sources of dust, mist, fumes and vapor.</p> <p>Keep away from heat and open flame. Store in a cool, dry place.</p>
Personal Protective Equipment	<p>Respiratory Protection: Not necessary under normal conditions.</p> <p>Skin and body Protection: Not necessary under normal conditions, Wear neoprene or nitrile rubber gloves if handling an open or leaking battery.</p>



	Hand protection: Wear neoprene or natural rubber material gloves if handling an open or leaking battery. Eye Protection: Not necessary under normal conditions, Wear safety glasses if handling an open or leaking battery.
Other Protective Equipment	Have a safety shower and eye wash fountain readily available in the immediate work area.
Hygiene Measures	Do not eat, drink, or smoke in work area. Maintain good housekeeping.

Section 9 - Physical and Chemical Properties

Physical State	Form: Solid
	Color: Silvery white
	Odour: Monotony
Change in condition:	
pH, with indication of the concentration	Not applicable
Melting point/freezing point	Not available.
Boiling Point, initial boiling point and Boiling range:	Not available.
Flash Point	Not available.
Upper/lower flammability or explosive limits	Not available.
Vapor Pressure:	Not applicable
Vapor Density: (Air = 1)	Not applicable
Density/relative density	Not available.
Solubility in Water:	Insoluble
n-octanol/water partition coefficient	Not available.
Auto-ignition temperature	130 °C
Decomposition temperature	Not available.
Odour threshold	Not available.
Evaporation rate	Not available.
Flammability (soil, gas)	Not available.
Viscosity	Not applicable

Section 10 - Stability and Reactivity



Stability	The product is stable under normal conditions.
Conditions to Avoid (e.g. static discharge, shock or vibration)	Do not subject Button battery to mechanical shock. Vibration encountered during transportation does not cause leakage, fire or explosion. Do not disassemble, crush, short or install with incorrect polarity. Avoid mechanical or electrical abuse.
Incompatible Materials	Not Available
Hazardous Decomposition Products	This material may release toxic fumes if burned or exposed to fire
Possibility of Hazardous Reaction	Not Available

Section 11 - Toxicological Information

In normal condition, contact with the battery is non-toxic.

Section 12 - Ecological Information

General note:	Water hazard class 1(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.
Anticipated behavior of a chemical product in environment/possible environmental impact/ecotoxicity	Not Available
Mobility in soil	Not Available
Persistence and Degradability	Not Available
Bioaccumulation potential	Not Available
Other Adverse Effects	Not Available

Section 13 – Disposal Considerations

Product disposal recommendation: Observe local, state and federal laws and regulations.

Packaging disposal recommendation: Be aware discarded batteries may cause fire, tape the battery terminals to insulate them. Don't disassembly the battery. Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local, state and federal laws and regulations.

The potential effects on the environment and human health of the substances used in batteries and accumulators; the desirability of not disposing of waste batteries and accumulators as unsorted municipal waste and of participating in their separate collection so as to facilitate treatment and recycling;

Section 14 – Transport Information

This report applies to by sea, by air and by land;

The **Button battery** according to Section II of PACKING INSTRUCTION 968 of the 2015 IATA Dangerous Goods regulations 56th Edition may be transported. and applicable U.S. DOT regulations for the safe transport of Button battery.

Button battery was protected so as to prevent short circuits. This includes protection against contact with conductive materials within the same packaging that could lead to short circuit;

Button battery offered for transport must be packed in inner packaging’s that completely enclose the Button battery; to provide protection from damage or compression to the batteries, the inner packaging’s must be placed in a strong rigid outer packaging;

The packaging shall be adequate to avoid mechanical damage during transport, handling and stacking. The materials and pack design shall be chosen so as to prevent the development of unintentional electrical conduction, corrosion of the terminals and ingress of moisture.

The package must be handled with care and that a flammability hazard exists if the package is damaged;

With regard to transport, the following regulations are cited and considered:

- The International Civil Aviation Organization (ICAO) Technical Instructions.
- The International Air transport Association (IATA) Dangerous Goods Regulations.

Section 15 - Regulatory Information

OSHA hazard communication standard (29 CFR 1910.1200)

_____ Hazardous Non-hazardous

Section 16 - Other Information

The information above is believed to be accurate and represents the best information currently available to us. However, concorde makes 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. although reasonable precautions have been taken in the preparation of the data contained herein, it is offered solely for your information, consideration and investigation. This material safety data sheet provides guidelines for the safe handling and use of this product; it does not and cannot advise on all possible situations, therefore, your specific use of this product should be evaluated to determine if additional precautions are required.

The data/information contained herein has been reviewed and approved for general release on the basis that this document contains no export controlled information.



*****The End*****

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name **Waterproof Matches**

Other means of identification

Synonyms Waterproof Matches Part No. 20-02118-02
 Safety Matches; Camping Matches
 UST Survival Kits containing Waterproof Matches.

Recommended use of the chemical and restrictions on use

Recommended Use Fire starting.
 Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Name UST Brands
 Supplier Address 7720 Philips Highway
 Jacksonville
 Florida
 32256
 USA
 Supplier Phone Number Phone: 904-786-0033
 Fax: 904-786-0890
 Supplier Email sales@ustbrands.com

Emergency telephone number

INFOTRAC USA or Canada: 1-800-535-5053 International: 1-352-323-3500

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Ox. Sol. 1;H271	May cause fire or explosion; strong oxidizer.
Acute Tox. 5;H303	May be harmful if swallowed. (Not adopted by US OSHA)
Acute Tox. 4;H332	Harmful if inhaled.
Skin Irrit. 3;H316	Causes mild skin irritation. (Not adopted by US OSHA)
Skin Sens. 1;H317	May cause an allergic skin reaction.
Carc. 2;H351	Suspected of causing cancer.
Aquatic Chronic 2;H411	Toxic to aquatic life with long lasting effects.

Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows:



Danger:

H271 May cause fire or explosion; strong oxidizer.
 H303 May be harmful if swallowed.
 H316 Causes mild skin irritation.
 H317 May cause an allergic skin reaction.
 H332 Harmful if inhaled.
 H351 Suspected of causing cancer.
 H411 Toxic to aquatic life with long lasting effects.



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Waterproof Matches

Prevention:

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P210 Keep away from heat / sparks / open flames / hot surfaces - No smoking.
- P220 Keep / Store away from clothing combustible materials.
- P221 Take any precaution to avoid mixing with combustibles.
- P261 Avoid breathing dust / fume / gas / mist / vapors / spray.
- P271 Use only outdoors or in a well-ventilated area.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P273 Avoid release to the environment.
- P280 Wear protective gloves / eye protection / face protection.
- P283 Wear fire / flame resistant / retardant clothing.

Response:

- P302+352 IF ON SKIN: Wash with plenty of soap and water.
- P304+312 IF INHALED: Call a POISON CENTER or doctor / physician if you feel unwell.
- P306+360 IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
- P308+313 IF exposed or concerned: Get medical advice / attention.
- P321 Specific treatment (see information on this label).
- P333+313 If skin irritation or a rash occurs: Get medical advice / attention.
- P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P363 Wash contaminated clothing before reuse.
- P370+380+375 In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.
- P371 In case of major fire and large quantities:
- P378 Use alcohol resistant foam, CO₂, powder, water spray for extinction. Do not use water jet.
- P391 Collect spillage.

Storage:

- P405 Store locked up.

Disposal:

- P501 Dispose of contents / container in accordance with local / national regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	CAS Number	Weight %	GHS Classification	Notes
Potassium Chlorate (Chloric acid, potassium salt)	3811-04-9	25 - 50	Ox. Sol. 1; H271 Acute Tox. 4;H332 Acute Tox. 4;H302 Aquatic Chronic 2;H411	[1]
Quartz Powder (Synthetic, amorphous silicon dioxide calcium-ion exchange)	7631-86-9	10 - 25		[1][2]
Sulfur	7704-34-9	1.0 - 10	Skin Irrit. 2;H315	[1]
Animal Bone Glue (Gelatin)	9000-70-8	1.0 - 10		[1]
Antimony trioxide	1309-64-4	1.0 - 10	Carc. 2;H351	[1]
Zinc oxide	1314-13-2	1.0 - 10	Aquatic Acute 1;H400 Aquatic Chronic 1;H410	[1][2]
Rosin	8050-09-7	1.0 - 10	Skin Sens. 1;H317	[1]

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

*The full texts of the phrases are shown in Section 16.



SAFETY DATA SHEET

Waterproof Matches

4. FIRST AID MEASURES

Description of first aid measures

General	Move victim to fresh air. Call 911 or emergency medical service if deemed necessary. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult. Remove and isolate contaminated clothing and shoes. In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes. Removal of solidified molten material from skin requires medical assistance. Keep victim warm and quiet. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
Inhalation	Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
Eyes	Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.
Skin	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.
Ingestion	Wash with soap and water. If irritation or other symptoms develop, seek medical attention.

Most important symptoms and effects, both acute and delayed

Overview	Effects of contact or inhalation may be delayed. Possible cancer hazard. Contains an ingredient which may cause cancer based on animal data (See Section 3 and Section 15 for each ingredient). Risk of cancer depends on duration and level of exposure. See section 2 for further details.
Inhalation	Harmful if inhaled.
Skin	May cause an allergic skin reaction. Causes mild skin irritation. (Not adopted by US OSHA)
Ingestion	May be harmful if swallowed. (Not adopted by US OSHA)

5. FIRE-FIGHTING MEASURES

Extinguishing media

Carbon dioxide, water, water spray.

Special hazards arising from the substance or mixture

Hazardous decomposition:

High temperatures and fires may produce such toxic substances as carbon monoxide and carbon dioxide.

Keep away from heat / sparks / open flames / hot surfaces - No smoking.

Keep / Store away from clothing combustible materials.

Take any precaution to avoid mixing with combustibles.

Avoid breathing dust / fume / gas / mist / vapors / spray.

Advice for fire-fighters

Wear positive pressure self-contained breathing apparatus (SCBA).

Structural firefighters' protective clothing will only provide limited protection.

Flammable/combustible material.

May be ignited by friction, heat, sparks or flames.

Some may burn rapidly with flare burning effect.

Powders, dusts, shavings, borings, turnings or cuttings may explode or burn with explosive violence.

Substance may be transported in a molten form at a temperature that may be above its flash point.

May re-ignite after fire is extinguished.

Fire may produce irritating and/or toxic gases.

Contact may cause burns to skin and eyes.

Contact with molten substance may cause severe burns to skin and eyes.

Runoff from fire control may cause pollution.

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Waterproof Matches

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

Environmental precautions

Do not allow spills to enter drains or watercourses.
Use good personal hygiene practices.
Wash hands before eating, drinking, smoking or using toilet.
Promptly remove soiled clothing and wash thoroughly before reuse.

Methods and material for containment and cleaning up

Increase ventilation.
Use clean non-sparking tools to collect material and place it into a properly labeled container for later disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Handle containers carefully to prevent damage and spillage. Use approved storage containers in the work area. Keep away from sparks, flames or ignition sources. Do not use near welding operations, flames or hot surfaces. Post "No Smoking" signs. Empty containers may contain residue, which is hazardous. Ensure a high level of personal hygiene is maintained when using this product; wash hands before eating, drinking, smoking or using the toilet.
See section 2 for further details. - [Prevention]:

Conditions for safe storage, including any incompatibilities

Handle containers carefully to prevent damage and spillage.
Naked flames and smoking should not be permitted in storage areas. It is recommended that fork lift trucks and electrical equipment are protected to the appropriate standard.
Incompatible materials: Strong Oxidizing Agents, Strong Acids and Alkalis.
Store in a cool, dry, well-ventilated area away from sources of ignition, oxidizing agents, foodstuffs, and clothing. Keep out of direct sunlight. Keep containers sealed and protected against physical damage. Keep in original container. Have appropriate fire extinguisher available. Do not stack more than 3 palates high.
See section 2 for further details. - [Storage]:

Specific end use(s)

No data available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

CAS No.	Ingredient	Exposure	
		Source	Value
1309-64-4	Antimony trioxide	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
1314-13-2	Zinc oxide	OSHA	TWA 5 mg/m3 (fume) TWA 15 mg/m3 (total dust) TWA 5 mg/m3 (resp dust)
		ACGIH	TWA: 2 mg/m3 STEL: 10 mg/m3 A1, 1, Revised 2003,
		NIOSH	No Established Limit
		Supplier	No Established Limit
3811-04-9	Chloric acid, potassium salt	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit



SAFETY DATA SHEET

Waterproof Matches

7631-86-9	Synthetic, amorphous silicon dioxide calcium-ion exchanged	OSHA	TWA 20 mppcf (80 mg/m3/%SiO2)
		ACGIH	No Established Limit
		NIOSH	TWA 6 mg/m3
		Supplier	No Established Limit
7704-34-9	Sulfur	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
8050-09-7	Rosin	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
9000-70-8	Gelatin	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit

Carcinogen Data

CAS No.	Ingredient	Source	Value
1309-64-4	Antimony trioxide	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: Yes; Group 3: No; Group 4: No
1314-13-2	Zinc oxide	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No
3811-04-9	Chloric acid, potassium salt	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No
7631-86-9	Synthetic, amorphous silicon dioxide calcium-ion exchanged	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No
7704-34-9	Sulfur	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No
8050-09-7	Rosin	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No
9000-70-8	Gelatin	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No

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Exposure Controls

Respiratory	If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.
Eyes	Protective safety glasses recommended.
Skin	Overalls which cover the body, arms and legs should be worn. Skin should not be exposed. All parts of the body should be washed after contact. Protective gloves recommended.
Engineering Controls	Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.
Other Work Practices	Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.
See section 2 for further details. - [Prevention]:	

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Red match head, woody matchstick - Solid
Odor	Odorless
Odor threshold	Not Measured
pH	< 4.7
Melting point / freezing point	N/A
Initial boiling point and boiling range	N/A
Flash Point	28 C
Evaporation rate (Ether = 1)	N/A
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	Lower Explosive Limit: 1.2% Upper Explosive Limit: 9.0%
Vapor pressure (Pa)	N/A
Vapor Density	N/A
Specific Gravity	2.477
Solubility in Water	Insoluble
Partition coefficient n-octanol/water (Log Kow)	Not Measured
Auto-ignition temperature	~250 C
Decomposition temperature	N/A
Viscosity (cSt)	N/A

Other information

No other relevant information.



SAFETY DATA SHEET

Waterproof Matches

10. STABILITY AND REACTIVITY

Reactivity

Hazardous Polymerization will not occur.

Chemical Stability

Stable under normal circumstances.

Possibility of hazardous reactions

No data available.

Conditions to avoid

High temperatures, flames, and incompatibles.

Incompatible materials

Strong Oxidizing Agents, Strong Acids and Alkalis.

Hazardous decomposition products

High temperatures and fires may produce such toxic substances as carbon monoxide and carbon dioxide.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Chloric acid, potassium salt (3811-04-9)	1,870.00, Rat - Category: 4	>2,000.00, Rabbit - Category: 5	5.59, Rat - Category: 3	No data available	No data available
Synthetic, amorphous silicon dioxide calcium-ion exchanged (7631-86-9)	5,110.00, Rat - Category: NA	5,000.00, Rabbit - Category: 5	No data available	No data available	No data available
Sulfur (7704-34-9)	8,437.00, Rat - Category: NA	5,587.00, Guinea Pig Category: NA	9.23, Rat - Category: 3	No data available	No data available
Gelatin (9000-70-8)	No data available	No data available	No data available	No data available	No data available
Antimony trioxide (1309-64-4)	34,600.00, Rat - Category: NA	No data available	No data available	No data available	No data available
Zinc oxide (1314-13-2)	5,000.00, Rat - Category: 5	No data available	No data available	2.50, Mouse - Category: 4	No data available
Rosin (8050-09-7)	7,600.00, Rat - Category: NA	2,500.00, Rabbit - Category: 5	No data available	No data available	No data available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification	Category	Hazard Description
Acute toxicity (oral)	5	May be harmful if swallowed. (Not adopted by US OSHA)
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	4	Harmful if inhaled.
Skin corrosion/irritation	3	Causes mild skin irritation. (Not adopted by US OSHA)
Serious eye damage/irritation	---	Not Applicable
Respiratory sensitization	---	Not Applicable

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Skin sensitization	1	May cause an allergic skin reaction.
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	2	Suspected of causing cancer.
Reproductive toxicity	---	Not Applicable
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

12. ECOLOGICAL INFORMATION

Toxicity

Toxic to aquatic life with long lasting effects.

Aquatic Toxicity			
Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Chloric acid, potassium salt (3811-04-9)	Not Available	Not Available	Not Available
Synthetic, amorphous silicon dioxide calcium-ion exchanged (7631-86-9)	10,000.00, Danio rerio	10,000.00, Daphnia magna	10,000.00 (72 hr), Scenedesmus subspicatus
Sulfur (7704-34-9)	866.00, Danio rerio	Not Available	Not Available
Gelatin (9000-70-8)	Not Available	Not Available	Not Available
Antimony trioxide (1309-64-4)	00, Pimephales promelas	423.45, Daphnia magna	0.74 (96 hr), Pseudokirchneriella subcapitata
Zinc oxide (1314-13-2)	Oncorhynchus mykiss	0.098, Daphnia magna	0.042 (72 hr), Pseudokirchneriella subcapitata
Rosin (8050-09-7)	1.00, Danio rerio	10.00, Daphnia magna	100.00 (72 hr), Selenastrum capricornutum

Persistence and degradability

There is no data available on the preparation itself.

Bioaccumulative potential

Not Measured

Mobility in soil

No data available.

Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

Other adverse effects

No data available.



SAFETY DATA SHEET

Waterproof Matches

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Dispose of waste according to relative regulations. Labels should not be removed from containers until they have been cleaned. Do not cut, puncture, or weld on or near containers. Empty containers may contain hazardous residues. Contaminated containers must not be treated as household waste. Containers should be cleaned by appropriate methods and then re-used or disposed of by landfill or incineration as appropriate. Do not incinerate closed containers.

14. TRANSPORT INFORMATION

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
UN number	UN1944	UN1944	UN1944
UN proper shipping name	Matches, safety Ground shipments not regulated when shipped in accordance with 49 CFR173.186(c).	Matches, safety	Matches, safety
Transport hazard class(es)	DOT Hazard Class: 4.1 DOT Label: 4.1	IMDG: 4.1 Sub Class: Not Applicable	Air Class: 4.1
Packing group	III	III	III

Environmental hazards

IMDG Marine Pollutant: Yes (Chloric acid, potassium salt)

Special precautions for user

No further information

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not Applicable

15. REGULATORY INFORMATION

Regulatory Overview

The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented. All ingredients of this product are listed on the TSCA (Toxic Substance Control Act) Inventory or are not required to be listed on the TSCA Inventory.

WHMIS Classification

D2A C

US EPA Tier II Hazards

Fire:	No
Sudden Release of Pressure:	No
Reactive:	Yes
Immediate (Acute):	Yes
Delayed (Chronic):	Yes

EPCRA 311/312 Chemicals and RQs (lbs):

Antimony trioxide (1,000.00)



SAFETY DATA SHEET

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EPCRA 302 Extremely Hazardous:

Phosphorus

EPCRA 313 Toxic Chemicals:

Zinc oxide

Proposition 65 - Carcinogens (>0.0%):

Antimony trioxide

Proposition 65 - Developmental Toxins (>0.0%):

(No Product Ingredients Listed)

Proposition 65 - Female Repro Toxins (>0.0%):

(No Product Ingredients Listed)

Proposition 65 - Male Repro Toxins (>0.0%):

(No Product Ingredients Listed)

N.J. RTK Substances (>1%):

Antimony trioxide
Chloric acid, potassium salt
Sulfur
Zinc oxide

Penn RTK Substances (>1%):

Synthetic, amorphous silicon dioxide calcium-ion exchanged
Antimony trioxide
Chloric acid, potassium salt
Sulfur
Zinc oxide

16. OTHER INFORMATION

The full text of the phrases appearing in section 3 is:

- H271 May cause fire or explosion; strong oxidizer.
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H332 Harmful if inhaled.
- H351 Suspected of causing cancer.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.

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Revision A is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.



SAFETY DATA SHEET

Waterproof Matches

Disclaimer Liability: Since conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this product. The information contained in this SDS is believed to be true and accurate. All statements or suggestions are made without warranty, express or implied, regarding the accuracy of the information, the hazards connected with the use of the product, or the results to be obtained from the use thereof. Compliance with all federal, state, and local laws and regulations remains the responsibility of the user.

User Responsibility: This SDS cannot cover all possible situations which the distributor, retailer, or end user may experience during transport, storage, processing, or use. The user should examine each aspect of his operation and determine if additional precautions should be taken. All health and safety information contained in this SDS should be provided to the user's employees or customers. It is the user's responsibility to use this information to develop appropriate work practice guidelines and employee training programs for his operation.

End of Safety Data Sheet



SAFETY DATA SHEET

Hand Sanitizer

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name Hand Sanitizer

Other means of identification

Synonyms Part No. 90-02710-HAND (in 2 FL OZ / 59 mL Plastic Bottle)

Recommended use of the chemical and restrictions on use

Recommended Use Antiseptic. For handwashing to decrease bacteria on the skin.

Uses advised against For external use only. Discontinue use if irritation and redness develop.

Details of the supplier of the safety data sheet

Supplier Name UST Brands
Supplier Address 7720 Philips Highway
Jacksonville
Florida
32256
USA
Supplier Phone Number Phone:904-786-0033
Fax:904-786-0890
Supplier Email sales@ustbrands.com

Emergency telephone number

INFOTRAC USA or Canada: 1-800-535-5053 International: 1-352-323-3500

2. HAZARDS IDENTIFICATION


Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Flammable liquids	Category 3
-------------------	------------

GHS Label elements, including precautionary statements

Emergency Overview

Signal word	Warning		
Flammable liquid and vapor			
			
Appearance	Liquid	Physical state	Liquid
		Odor	Alcohol

Precautionary Statements - Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking
 Keep container tightly closed
 Ground/bond container and receiving equipment
 Use explosion-proof electrical/ ventilating/ lighting/ equipment
 Use only non-sparking tools
 Take precautionary measures against static discharge
 Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

Skin

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Unknown Toxicity

0 % of the mixture consists of ingredient(s) of unknown toxicity

Other information

Toxic to aquatic life
 PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION
 May cause slight eye irritation



SAFETY DATA SHEET

Hand Sanitizer

Interactions with Other Chemicals

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%	Trade Secret
Ethyl alcohol	64-17-5	62	
Water	7732-18-5	35 - 37	*
Glycerin	56-81-5	< 1.0	*
Propylene Glycol	57-55-6	< 1.0	*
Triethanolamine	102-71-6	< 0.5	*
Carbomer	9003-01-4	< 0.5	*
Tocopheryl acetate	7695-91-2	< 0.1	*

*The exact percentage (concentration) of composition has been withheld as a trade secret

4. FIRST AID MEASURES

First aid measures

Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Inhalation	Remove to fresh air.
Ingestion	Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person.
Self-protection of the first aider	Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. Wear personal protective clothing (see section 8).

Most important symptoms and effects, both acute and delayed

Most Important Symptoms and Effects	No information available.
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Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically.
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SAFETY DATA SHEET

Hand Sanitizer

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical. Carbon dioxide (CO₂). Water spray. Alcohol resistant foam.

Unsuitable extinguishing media

CAUTION: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical

Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Uniform Fire Code

Flammable Liquid: I-C

Hazardous Combustion Products

Carbon oxides.

Explosion Data

Sensitivity to Mechanical Impact No.

Sensitivity to Static Discharge Yes.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material.

Other Information

Ventilate the area.

Environmental precautions

Environmental precautions

Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

Methods and material for containment and cleaning up

Methods for containment

Prevent further leakage or spillage if safe to do so. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways.



SAFETY DATA SHEET

Hand Sanitizer

Methods for cleaning up

Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling

Handle in accordance with good industrial hygiene and safety practice. Use personal protection equipment. Avoid contact with skin and eyes. Avoid breathing vapors or mists. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions.

Conditions for safe storage, including any incompatibilities

Storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations.

Incompatible Products

None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethyl alcohol 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m ³ (vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m ³	IDLH: 3300 ppm 10% LEL TWA: 1000 ppm TWA: 1900 mg/m ³

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits NIOSH IDLH Immediately Dangerous to Life or Health

Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992)

Appropriate engineering controls

Engineering Measures

Showers
Eyewash stations
Ventilation systems



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Individual protection measures, such as personal protective equipment

Eye/face protection	Tight sealing safety goggles.
Skin and body protection	Wear protective gloves and protective clothing. Long sleeved clothing. Chemical resistant apron. Impervious gloves. Antistatic boots.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical state	Liquid	Odor	Alcohol
Appearance	Liquid	Odor Threshold	No information available
Color	No information available		

<u>Property</u>	<u>Values</u>	<u>Remarks</u>	<u>Method</u>
pH	6.0 – 8.0	None known	
Melting / freezing point	No data available	None known	
Boiling point / boiling range	85°C / 185°F	None known	
Flash Point	24°C / 75°F	Closed Cup	
Evaporation Rate	No data available	None known	
Flammability (solid, gas)	No data available	None known	
Flammability Limit in Air			
Upper flammability limit	No data available		
Lower flammability limit	No data available		
Vapor pressure	No data available	None known	
Vapor density	No data available	None known	
Specific Gravity	0.93	None known	
Water Solubility	Soluble in water	None known	
Solubility in other solvents	No data available	None known	
Partition coefficient: n-octanol/water	No data available	None known	
Autoignition temperature	No data available	None known	
Decomposition temperature	No data available	None known	
Kinematic viscosity	No data available	None known	
Dynamic viscosity	No data available	None known	
Explosive properties	No data available		
Oxidizing properties	No data available		

Other Information

Softening Point	No data available
VOC Content (%)	No data available
Particle Size	No data available
Particle Size Distribution	

10. STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

None known based on information supplied.

Hazardous Decomposition Products

Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

- Inhalation** Specific test data for the substance or mixture is not available.
- Eye contact** Specific test data for the substance or mixture is not available.
- Skin contact** Specific test data for the substance or mixture is not available.
- Ingestion** Specific test data for the substance or mixture is not available.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Ethyl alcohol 64-17-5	= 7060 mg/kg (Rat)	-	= 124.7 mg/L (Rat) 4 h

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available.



SAFETY DATA SHEET

Hand Sanitizer

Mutagenic Effects No information available.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen. Ethanol has been shown to be carcinogenic in long-term studies only when consumed as alcoholic beverage.

Chemical Name	ACGIH	IARC	NTP	OSHA
Ethyl alcohol 64-17-5	A3	Group 1	Known	X

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

NTP (National Toxicology Program)

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Chronic Toxicity No known effect based on information supplied.

Target Organ Effects None known.

Aspiration Hazard No information available.

Numerical measures of toxicity Product Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)

11,387.00 mg/kg

ATEmix (inhalation-dust/mist)

201.10 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic organisms.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Ethyl alcohol 64-17-5		96h LC50: > 100 mg/L (Pimephales promelas) 96h LC50: 13400 - 15100 mg/L (Pimephales promelas) 96h LC50: 12.0 - 16.0 mL/L (Oncorhynchus mykiss)	EC50 = 34634 mg/L 30 min EC50 = 35470 mg/L 5 min	48h LC50: 9268 - 14221 mg/L 48h EC50: = 2 mg/L 24h EC50: = 10800 mg/L

SDS No.: 1025

Issue Date: Nov 2/2015

Revision Date: Nov 2/2015

Revision: A

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SAFETY DATA SHEET

Hand Sanitizer

Persistence and Degradability

No information available.

Bioaccumulation

Chemical Name	Log Pow
Ethyl alcohol 64-17-5	-0.32

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal methods This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

Contaminated Packaging Dispose of contents/containers in accordance with local regulations.

US EPA Waste Number D001

California Hazardous Waste Codes 311

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste
Ethyl alcohol 64-17-5	Toxic Ignitable

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name CONSUMER COMMODITY
Hazard Class ORM-D
Description CONSUMER COMMODITY, ORM-D
Emergency Response Guide Number 127

Note: This item, in a plastic bottle of no more than 16 fl oz (473 mL), is excepted from DOT Hazardous Material Regulations per 49 CFR 173.150(g)(i). Net liquid content in the outer packaging (shipping box) must not exceed 192 fl oz (5.7 L).

TDG

UN-No. UN1170
Proper Shipping Name ETHANOL
Hazard Class 3
Packing Group III
Description UN1170, ETHANOL, 3, PG III



SAFETY DATA SHEET

Hand Sanitizer

MEX

UN-No. UN1170
Proper Shipping Name ETHANOL
Hazard Class 3
Packing Group III
Description UN1170, ETHANOL, 3, III

ICAO

UN-No. UN1170
Proper Shipping Name ETHANOL SOLUTION
Hazard Class 3
Packing Group III
Description UN1170, ETHANOL SOLUTION, 3, PG III

IATA

UN-No. UN1170
Proper Shipping Name ETHANOL SOLUTION
Hazard Class 3
Packing Group III
Description UN1170, ETHANOL SOLUTION, 3, PG III

IMDG/IMO

UN-No. UN1170
Proper Shipping Name ETHANOL
Hazard Class 3
Packing Group III
EmS-No. F-E, S-D
Description UN1170, ETHANOL, 3, PG III, FP 22C

RID

UN-No. UN1170
Proper Shipping Name ETHANOL (ETHYL ALCOHOL)
Hazard Class 3
Packing Group III
Classification code F1
Description UN1170, ETHANOL (ETHYL ALCOHOL), 3, III

ADR

UN-No. UN1170
Proper Shipping Name ETHANOL (ETHYL ALCOHOL)
Hazard Class 3
Packing Group III
Classification code F1
Tunnel restriction code (D/E)
Description UN1170, ETHANOL (ETHYL ALCOHOL), 3, III

ADN

UN-No. UN1170
Proper Shipping Name ETHANOL
Hazard Class 3
Packing Group III
Classification code F1



SAFETY DATA SHEET

Hand Sanitizer

Special Provisions 144, 601
Description UN1170, ETHANOL, 3, III
Hazard Labels 3
Limited Quantity LQ7
Ventilation VE01

15. REGULATORY INFORMATION

International Inventories

TSCA Complies
DSL All components are listed either on the DSL or NDSL.
IECSC -

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals. Ethyl alcohol is only a considered a Proposition 65 developmental hazard when it is ingested as an alcoholic beverage.

Chemical Name	California Proposition 65
Ethyl alcohol - 64-17-5	Carcinogen Developmental



SAFETY DATA SHEET

Hand Sanitizer

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Ethyl alcohol 64-17-5		X	X		
Glycerin 56-81-5	X	X	X	X	
Supplier Trade Secret	X		X		
Supplier Trade Secret	X	X	X		
Supplier Trade Secret	X				

International Regulations

Mexico

National occupational exposure limits

Component	Carcinogen Status	Exposure Limits
Ethyl alcohol 64-17-5 (40 - 70)		Mexico: TWA 1000 ppm Mexico: TWA 1900 mg/m ³

Mexico - Occupational Exposure Limits - Carcinogens

Canada

WHMIS Hazard Class

Not determined



SAFETY DATA SHEET

Hand Sanitizer

16. OTHER INFORMATION

NFPA	Health Hazards	1	Flammability	3	Instability	0	Physical and Chemical Hazards	-
HMIS	Health Hazards	1	Flammability	3	Physical Hazard	0	Personal Protection	X

Prepared By Product Stewardship
23 British American Blvd.
Latham, NY 12110
1-800-572-6501

Revision Date 02-Nov-2015
Revision Note No information available

Revision A is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.

Disclaimer of Liability: Since conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this product. The information contained in this SDS is believed to be true and accurate. All statements or suggestions are made without warranty, express or implied, regarding the accuracy of the information, the hazards connected with the use of the product, or the results to be obtained from the use thereof. Compliance with all federal, state, and local laws and regulations remains the responsibility of the user.

User Responsibility: This SDS cannot cover all possible situations which the distributor, retailer, or end user may experience during transport, storage, processing, or use. The user should examine each aspect of his operation and determine if additional precautions should be taken. All health and safety information contained in this SDS should be provided to the user's employees or customers. It is the user's responsibility to use this information to develop appropriate work practice guidelines and employee training programs for his operation.

End of Safety Data Sheet



SAFETY DATA SHEET

Light Sticks, 4 inch and 6 inch

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name Light Sticks, 4 inch and 6 inch

Other means of identification

Synonyms See-Me Light Sticks, 4 inch; See-Me Light Sticks, 6 inch
Glow Light Sticks, 4 inch; Glow Light Sticks, 6 inch
Part No. 20-0310-110-(); Part No. 20-310-4LS-()

Recommended use of the chemical and restrictions on use

Recommended Use Emergency lighting; Entertainment

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Name UST Brands
Supplier Address 7720 Philips Highway
Jacksonville
Florida
32256
USA
Supplier Phone Number Phone:904-786-0033
Fax:904-786-0890
Supplier Email sales@ustbrands.com

Emergency telephone number

INFOTRAC USA or Canada: 1-800-535-5053 International: 1-352-323-3500

2. HAZARDS IDENTIFICATION

Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).



SAFETY DATA SHEET

Light Sticks, 4 inch and 6 inch

GHS Label elements, including precautionary statements

Emergency Overview

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Appearance Color	Physical state Solid containing liquid Solid	Odor Odorless
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Precautionary Statements - Prevention

Obtain special instructions before use

Precautionary Statements - Response

None

Precautionary Statements - Storage

None

Precautionary Statements - Disposal

None

Hazards not otherwise classified (HNOC)

Not applicable

Unknown Toxicity

3.1 % of the mixture consists of ingredient(s) of unknown toxicity

Other information

Harmful to aquatic life with long lasting effects
May cause slight eye irritation

Interactions with Other Chemicals

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%	Trade Secret
Dimethyl phthalate	131-11-3	90 – 99	*
Ethanedioic acid, bis[3,4,6-trichloro-2- [(pentyloxy)carbonyl]phenyl] ester	30431-54-0	3 – 7	*
Hydrogen peroxide	7722-84-1	< 0.1	*
2-methylpropan-2-ol	75-65-0	< 0.1	*
1,8-Dichloro-9,10-bis(phenylethynyl) anthracene	51749-83-8	< 0.1	*

*The exact percentage (concentration) of composition has been withheld as a trade secret



SAFETY DATA SHEET

Light Sticks, 4 inch and 6 inch

4. FIRST AID MEASURES

First aid measures

Eye contact	Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.
Skin contact	Wash with soap and water.
Inhalation	Remove to fresh air.
Ingestion	Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Most Important Symptoms and Effects	No information available.
--	---------------------------

Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically.
---------------------------	------------------------

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

CAUTION: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical

No information available.

Hazardous Combustion Products

Carbon oxides.

Explosion Data

Sensitivity to Mechanical Impact No.

Sensitivity to Static Discharge No.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.



SAFETY DATA SHEET

Light Sticks, 4 inch and 6 inch

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with eyes.

Environmental precautions

Environmental precautions Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing.

Conditions for safe storage, including any incompatibilities

Storage Keep container tightly closed.

Incompatible Products None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Dimethyl phthalate 131-11-3	TWA: 5 mg/m ³	TWA: 5 mg/m ³ (vacated) TWA: 5 mg/m ³	IDLH: 2000 mg/m ³ TWA: 5 mg/m ³

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits NIOSH IDLH Immediately Dangerous to Life or Health

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992)

Appropriate engineering controls

Engineering Measures Showers
Eyewash stations
Ventilation systems



SAFETY DATA SHEET

Light Sticks, 4 inch and 6 inch

Individual protection measures, such as personal protective equipment

Eye/face protection	No special protective equipment required.
Skin and body protection	No special protective equipment required.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical state	Solid containing liquid, Solid	Odor	Odorless
Appearance	Color	Odor Threshold	No information available
Color	White, yellow, blue green, orange, red, pink, or purple (when activated)		

<u>Property</u>	<u>Values</u>	<u>Remarks</u>	<u>Method</u>
pH	No data available	None known	
Melting / freezing point	No data available	None known	
Boiling point / boiling range	No data available	None known	
Flash Point	No data available	None known	
Evaporation Rate	No data available	None known	
Flammability (solid, gas)	No data available	None known	
Flammability Limit in Air			
Upper flammability limit	No data available		
Lower flammability limit	No data available		
Vapor pressure	No data available	None known	
Vapor density	No data available	None known	
Specific Gravity	No data available	None known	
Water Solubility	Immiscible in water	None known	
Solubility in other solvents	No data available	None known	
Partition coefficient: n-octanol/water	No data available	None known	
Autoignition temperature	No data available	None known	
Decomposition temperature	No data available	None known	
Kinematic viscosity	No data available	None known	
Dynamic viscosity	No data available	None known	
Explosive properties	No data available		
Oxidizing properties	No data available		

Other Information

Softening Point	No data available
VOC Content (%)	No data available
Particle Size	No data available
Particle Size Distribution	

10. STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to avoid

None known based on information supplied.

Incompatible materials

None known based on information supplied.

Hazardous Decomposition Products

Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation	Specific test data for the substance or mixture is not available.
Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	Specific test data for the substance or mixture is not available.
Ingestion	Specific test data for the substance or mixture is not available.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Dimethyl phthalate 131-11-3	= 6800 mg/kg (Rat)	> 4800 mg/kg (Rat) > 20 mL/kg (Rabbit)	-

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available.

Mutagenic Effects No information available.

Carcinogenicity Contains no ingredient listed as a carcinogen.



SAFETY DATA SHEET

Light Sticks, 4 inch and 6 inch

Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Chronic Toxicity	No known effect based on information supplied.
Target Organ Effects	None known.
Aspiration Hazard	No information available.

Numerical measures of toxicity Product Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)

7,018.00 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life with long lasting effects.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Dimethyl phthalate 131-11-3	72h EC50: 28.4 - 71 mg/L (Pseudokirchneriella subcapitata) 72h EC50: = 204 mg/L (Desmodesmus subspicatus) 96h EC50: 20.6 - 45.8 mg/L (Pseudokirchneriella subcapitata) 96h EC50: = 142 mg/L (Pseudokirchneriella subcapitata) 96h EC50: = 26.1 mg/L (Skeletonema costatum)	96h LC50: 37 - 69 mg/L (Lepomis macrochirus) 96h LC50: = 56 mg/L (Oncorhynchus mykiss) 96h LC50: = 121 mg/L (Pimephales promelas) 96h LC50: = 39 mg/L (Pimephales promelas) 96h LC50: = 49.5 mg/L (Lepomis macrochirus) 96h LC50: 100 - 220 mg/L (Leuciscus idus)	EC50 = 16.0 mg/L 5 min EC50 = 18.0 mg/L 15 min EC50 = 18.0 mg/L 30 min EC50 = 4100 mg/L 30 min EC50 > 2000 mg/L 17 h	48h EC50: = 33 mg/L

Persistence and Degradability

No information available.

Bioaccumulation

Chemical Name	Log Pow
Dimethyl phthalate 131-11-3	2.12

Other adverse effects

No information available.



SAFETY DATA SHEET

Light Sticks, 4 inch and 6 inch

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal methods This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated Packaging Dispose of contents/containers in accordance with local regulations.

California Hazardous Waste Codes 331

14. TRANSPORT INFORMATION

DOT NOT REGULATED

Proper Shipping Name NON REGULATED
Hazard Class N/A

TDG Not regulated

MEX Not regulated

ICAO Not regulated

IATA Not regulated
Proper Shipping Name NON REGULATED
Hazard Class N/A

IMDG/IMO Not regulated
Hazard Class N/A

RID Not regulated

ADR Not regulated

ADN Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA Complies
DSL All components are listed either on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List



SAFETY DATA SHEET

Light Sticks, 4 inch and 6 inch

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Dimethyl phthalate - 131-11-3	131-11-3	60 - 100	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Dimethyl phthalate 131-11-3		X	X	

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Dimethyl phthalate 131-11-3	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Dimethyl phthalate 131-11-3	X	X	X	X	X
2-methylpropan-2-ol 75-65-0	X	X	X	X	
Hydrogen peroxide 7722-84-1	X	X	X	X	



SAFETY DATA SHEET

Light Sticks, 4 inch and 6 inch

International Regulations

Mexico

National occupational exposure limits

Component	Carcinogen Status	Exposure Limits
Dimethyl phthalate 131-11-3 (60 - 100)		Mexico: TWA 5 mg/m ³ Mexico: STEL 10 mg/m ³

Mexico - Occupational Exposure Limits - Carcinogens

Canada

WHMIS Hazard Class

Not determined

16. OTHER INFORMATION

NFPA	Health Hazards 1	Flammability 0	Instability 0	Physical and Chemical Hazards -
HMIS	Health Hazards 1	Flammability 0	Physical Hazard 0	Personal Protection X

Prepared By Product Stewardship
23 British American Blvd.
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1-800-572-6501

Revision Date 02-Nov-2015

Revision Note No information available

Revision A is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.

Disclaimer of Liability: Since conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this product. The information contained in this SDS is believed to be true and accurate. All statements or suggestions are made without warranty, express or implied, regarding the accuracy of the information, the hazards connected with the use of the product, or the results to be obtained from the use thereof. Compliance with all federal, state, and local laws and regulations remains the responsibility of the user.

User Responsibility: This SDS cannot cover all possible situations which the distributor, retailer, or end user may experience during transport, storage, processing, or use. The user should examine each aspect of his operation and determine if additional precautions should be taken. All health and safety information contained in this SDS should be provided to the user's employees or customers. It is the user's responsibility to use this information to develop appropriate work practice guidelines and employee training programs for his operation.

End of Safety Data Sheet