GFA PRODUCTION (XIAMEN) CO,LTD.

SDS DATE: 4/24/2024

This safety data sheet complies with the requirements of US OSHA HCS-2012.

Section 1. Identification

Product Identifier:	GFA Alcohol Prep Pads
MFR #:	ACP-001, ACP-002,ACP-003,ACP-004,ACP-005,ACP-006
Manufacturer:	**GFA Production(Xiamen) Co., Ltd.**
Address:	No.20 Hu Li Industrial Park, Mei Xi Dao, Tong An District, Xiamen, Fujian China.361100 Office: 86. 592. 7269515 Fax: 86. 592. 7269528 www.GFAProduction.com
Emergency Phone:	86. 592. 7269515

Section 2. Hazards Identification

CLASSIFICATION

OSHA Regulatory Status

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

Physical Hazards	Flammable Liquids-Category 2
Health Hazards	Eye Damage/Irritation-Category 2A Specific target organ toxicity - single exposure-Category 3
Environmental Hazards	Not determined
OSHA defined hazards	None additional
Signal Word	Danger
Pictogram	
Hazard Statements	Highly flammable liquid and vapor Causes serious eye irritation May cause drowsiness or dizziness

Precautionary Statements

Prevention	Keep away from heat/spark/open flames/hot surfaces. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge Avoid breathing dust/fume/gas/mist/ vapors/spray. Wash affected area thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/eye protection/face protection.
Response	If inhaled: remove victim to fresh air and keep comfortable for breathing. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with wate If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Storage	Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool.

Disposal Dispose of contents/container in accordance with local authority requirements.

Other information Not know.

Section 3. Ingredients

Substance: Mixture

CHEMICAL NAME	CAS NO.	EC NO.	Weight %
Isopropyl alcohol	67-63-0	200-661-7	70
Purified Water	7732-18-5	231-791-2	30

Section 4. First-Aid Measures

General Advice: Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid. Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Eye Contact: Flush eyes with large amounts of water for at least 15 minutes while holding eyelids open. Tilt head to avoid contaminating unaffected eye. Get immediate medical attention.

Skin Contact: Immediately flush skin with plenty of water while removing contaminated clothing and shoes. Do not reuse clothing or shoes until cleaned. If irritation develops or persists, get medical attention. Wash with soap and water. Do not apply oils or ointments unless ordered by the physician.

Ingestion: If swallowed, call a physician immediately. Rinse mouth and throat thoroughly with water. Do not induce vomiting unless directed to do so by a physician. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention if discomfort continues or if you feel unwell.

Protection of first responders: Ensure that healthcare workers understand the hazardous properties of the product and take self-protection measures to protect themselves and prevent the spread of contamination.

Most important symptoms and effects, both acute and delayed

Symptoms May include stinging, tearing, redness, swelling and blurred vision.

Indication of any immediate medical attention and special treatment needed

Provide general supportive measures and treat asymptomatically.

Section 5. Fire Fighting Measures

Suitable Extinguishing Media In case of fire, use Water spray, Carbon Dioxide (CO2), Foam, Dry Chemical
Unsuitable Extinguishing Media None

Specific Hazards Arising From The Chemical

1. Can form explosive mixture with air.
2. Containers exposed to fire may leak their contents through the pressure relief valve, increasing the fire and/or the concentration of
3. Steam may move to the ignition source and flash back.
4. Liquid and vapor are flammable.
5. Hazardous flammable gases or vapors may be produced in the event of a fire.
6. Expansion or explosive decomposition may occur upon exposure to heat or flame.

Protective Equipment And Precautions For Firefighters

1. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots and in enclosed spaces, SCBA. Structural firefighters protective clothing will only provide limited protection.

2. Put out the fire at a safe distance and with adequate protection.
3. Use water mist to control fire and cool adjacent areas.
4. Suppress the resulting gas/vapor/mist with water spray.
5. Cool closed containers on fire with water spray.

Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions	Wear appropriate protective equipment and clothing during clean up.
Other Information	Eliminate all sources of ignition.
For Emergency Responders	Use personal protective equipment as required. Vapors can accumulate in low areas. Consider need for evacuation.
Environmental Precautions	Collect spillage. Prevent material from entering water courses.

Methods And Material For Containment And Cleaning Up

Methods for Containment	Contain and absorb using earth, sand or inert materials. Transfer into suitable containers for recovery or disposal.
Methods for Cleaning up	N/A

Section 7. Handling and Storage

Precautions For Safe Handling

Advice on Safe Handling:	Do not handle near open flame or heat sources. Do not use with electrocautery procedures. Use according to package label instructions. Avoid inhaling vapor and contact with eyes.

Conditions For Safe Storage

Storage Conditions:	Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).
Incompatible Materials:	N/A

Section 8. Exposure Controls/Personal Protection

Control Parameters

Exposure Guidelines

OSHA PEL Limits for Air contaminants:	Isopropanol 980 mg/m3, 400ppm
US ACGIH Threshold Limit Values:	Isopropanol STEL 400ppm Isopropanol TWA 200ppm
US NIOSH:	Isopropanol STEL 1225mg/m3, 500ppm Isopropanol TWA 980mg/m3, 400ppm

Biological Limit Values

ACGIH Biological Exposure Indices	40mg/l, Acetone, Urine
Appropriate Engineering Controls	Ventilation systems. Eyewash stations. Showers.

Individual Protection Measures, Such AS PPE

Eye/Face Protection:	None required for normal use. For prolonged exposure, use appropriate goggles, protective clothing and gloves.
Skin and Body Protection:	None required for normal use. For prolonged exposure, use appropriate goggles, protective clothing and gloves.
Respiratory Protection:	Wear positive pressure self contained breathing apparatus (SCBA)
General Hygiene Considerations:	Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly with soap and water after handling and before eating, When using, do not smoke. Safety shower and eye wash should be available

Section 9. Physical and Chemical Properties

Information On Basic Physical And Chemical Properties

Physical State:	Solid Pre-Moistened Towelette (No free liquids)
Appearance:	Clear, Colorless
Form:	Pre-moistened towelette
Color:	N/A
Odor:	Alcohol odor
Odor Threshold:	No information available
Solubility in water:	1
Partition coefficient Water/n-octanol:	0.05(isopropyl alcohol)
pH(1-3% aqueous solution):	Not applicable
Viscosity:	N.D.
Specific Gravity:	0.78(25℃,isopropyl alcohol)
Flash Point:	＜23℃
Melting Point：	-90℃(isopropyl alcohol)
Boiling point/boiling range:	>180° F/
Evaporation Rate:	7
Flammability:	Highly flammable
Vapor Pressure:	4.4kPa(20℃， isopropyl alcohol)
Vapor Density:	2.1(isopropyl alcohol)
Explosion limit[%(v/v)]:	Upper limit: 12, Lower limit: 2
Auto-ignition Temperature:	456℃
Decomposition Temperature:	N.D.

Section 10. Stability and Reactivity

Stability:	Stable under normal condition of handling, use and transport.
Incompatibility (Materials to avoid):	Strong oxidizing agents.
Hazardous Decomposition or Byproducts	None
Hazardous Polymerization:	Does not occur.
Conditions to avoid:	Heat, flames and sparks. Avoid temperatures exceeding flash point.

Section 11. Toxicological Information

Information On Likely Routes Of Exposure

Acute Toxicity: Eye Contact	Contact may cause temporary moderate irritation.
Acute Toxicity: Skin Contact	May cause mild irritation on patients with sensitive skin.
Acute Toxicity: Inhalation	N.A.
Acute Toxicity: Ingestion	May be harmful if swallowed.
Carcinogenicity:	None known.
Chronic Toxicity:	None known.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LD50
Isopropanol 67-63-0	5045mg/kg(rat)	Eye 12800mg/kg(rabbit)	16970mg/l/4h

Information On Toxicological Effects No information available.

Delayed And Immediate Effects As Well As Chronic Effects From Short And Long-- - Term Exposure

Skin corrosion/irritation: Prolonged skin contact may cause temporary irritation.
Serious eye damage/eye irritation: Causes serious irritation to the eye
Respiratory or skin sensitization: Not expected to cause skin sensitization.
Sensitization: No sensitization responses were observed.
Germ cell mutagenicity: Not expected to have chronic health effects.
Carcinogenicity: This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC, ACGHI or NTP.

Reproductivity Toxicity: Finished product not expected to have chronic health effects.
STOT--single exposure: Narcotic effects.
STOT–repeated exposure: Not classified.
Chronic Toxicity: No known effect.
Sub-chronic Toxicity: No known effect.
Neurological Effects: Not applicable.

Section 12. Ecological Information

ECOTOXICITY

Chemical Name	Algae/Aquatic Plants	Fish	Crustacea
Isopropanol 67-63-0	ErC_{50}:＞1000 mg/L,72h,algae	LC_{50}: 9640mg/l, 96hours	EC_{50}: ＞1000 mg/L,48h,Daphnia magna

Persistence and degradability: No data available.
Bioaccumulation: No data available.
Partition coefficient n-octanol/water(log Isopropanol 0.05
Mobility in soil: No data available.
Other adverse effects: None expected.

Section 13. Disposal

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

Section 14. Transport Information

Regulations	US DOT	IATA DGR	IMDG Code
UN No.:	UN3175	UN3175	UN3175
Hazard Class:	4.1	4.1	4.1
Shipping Name:	Solids containing flammable liquid, n.o.s.(Isopropyl alcohol)	Solids containing flammable liquid, n.o.s.(Isopropyl alcohol)	Solids containing flammable liquid, n.o.s.(Isopropyl alcohol)
Packing Group:	II	II	II
Packing method:	IB6, IP2	Y441, 445, 448	P002, PP9, IBC06, B2, T3, BK2, TP33

Additional information: The premoistened prep pads may be shipped as not regulated according to:
DOT: Special Provision 47
IMDG: Special Provision 216
IATA: Special Provision A46
allows for UN3175, Solids, containing flammable liquid, n.o.s., in sealed packages, containing less than 10 ml to be exempted from the regulations, provided there is no free liquid in the packet.

Section 15. Regulatory Information

International Inventories

Chemical Name	EINECS	TSCA	DSL	IESCS	NZIoC	PICCS	KECI	AICS	ENCS
Isopropyl Alcohol	√	√	√	√	√	√	√	√	√
Pure Water	√	√	√	√	√	√	√	√	√

LEGEND

EINECS/ELINCS-European Inventory of Existing chemical Substances/European List of Notified Chemical
TSCA-United States Toxic Substances Control Act Section 8b Inventory
DSL/NDSL–Canadian Domestic Substances List/Non-- - Domestic Substances List
IECSC-China Inventory of Existing Chemical Substances
NZIoC-New Zealand Inventory of Chemicals
PICCS–Phillipines Inventory of Chemicals and Chemical Substances
KECL-Korean Existing and Evaluated Chemical Substances
AICS–Australian Inventory of Chemical Substances
ENCS–Japan Existing and New Chemical Substances

Remark:
" √ " Indicates that the substance is listed in the regulation
"×" Indicates that the substance is not listed in the regulation

Section 16. Other Information

Revision Date： 4/24/2024

---End of Document---

Report No.: 721622569-7-B

Issue Date: 6 November 2015

Antiseptic Towelettes

ORIGINAL

SUBJECT	**Material Safety Data Sheet**
TEST LOCATION	**TÜV SÜD China** TÜV SÜD Products Testizng (Shanghai) Co.,Ltd. Guangzhou Branch 4F, Communication Building, 163 Pingyun Rd, Huangpu West Ave. Guangzhou 510656 P. R. China
CLIENT NAME	**GFA PRODUCTION XIAMEN CO., LTD.**
CLIENT ADDRESS	NO.20 HULI INDUSTRIAL PARK,MEI XI ROAD,TONG AN,XIAMEN,FUJIAN,CHINA
PREPARATION PERIOD	22-Oct-2015~06-Nov-2015
SUMMARY	MSDS conforms to the requirements of Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (Regulation (EC) No 453/2010) and Classification, Labelling and Packaging of Substances and Mixtures (Regulation (EC) No 1272/2008)

Prepared By: Kola Liang

(Kola Liang)
Assistant CS Representative

Authorized By:

(Jone Liu)
Senior Test Engineer

Safety Data Sheet

Antiseptic Towelettes

Issue Date: 6 November 2015

ORIGINAL

Section 1 - Chemical Product and Company Identification

Product Name	Antiseptic Towelettes		
Synonyms	Not applicable	**CAS No.**	Not applicable
Molecular formula	Not applicable	**Molecular mass**	Not applicable
Manufacturer/Supplier	GFA PRODUCTION XIAMEN CO., LTD.		
Address	NO.20 HULI INDUSTRIAL PARK,MEI XI ROAD,TONG AN,XIAMEN,FUJIAN,CHINA		

Section 2 - Hazards Identification

Emergency overview	Wet paper. Not a hazardous substance or mixture.
OSHA regulatory	This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Potential health effects	Likely Routes of Exposure: Skin, eye, inhalation and ingestion. Skin Contact: No adverse health effects expected. Eye Contact: No adverse health effects expected. Inhalation: No adverse health effects expected. Ingestion: Large quantities swallowed may cause irritation to the gastrointestinal tract. See Section 11 for more information.
Potential environmental effects	This material is not expected to be toxic to aquatic life. See Section 12 for more information.

Section 3 - Composition/Information on Ingredient

Component	Range % by Wt.	CAS No.
Benzalkonium chloride	0.13	8001-54-5
Water	99.87	7732-18-5

Section 4 - First Aid Measures

Skin contact	Not expected to require first aid measures. Immediately flush skin with plenty of water.
Eye contact	Not expected to require first aid measures. Immediately flush eyes with water. Get medical attention if irritation develops.
Inhalation	Not expected to require first aid measures. Get medical attention.
Ingestion	Not expected to require first aid measures. If swallowed, rinse thoroughly. Get medical attention immediately.
Note to Physicians	No information found.

ORIGINAL

Section 5 - Fire Fighting Measures

Flammable properties	Not considered to be a fire hazard.
Extinguishing media	Use fire extinguishing methods suitable to surrounding conditions.
Unsuitable extinguishing media	None.
Hazardous combustion products	Carbon oxides.
Protection of firefighters	No information found.

Section 6 - Accidental Release Measures

Personal precautions	Use personal protection recommended in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering.
Environmental precautions	Contain and recover liquid when possible. Avoid runoff into storm sewers and ditches which lead to waterways.
Methods for containment	Sweep up and containerize for reclamation or disposal.
Methods for clean-up	Place in suitable container or tanks, recycle or ship to the waste plant.
Other information	None.

Section 7 - Handling and Storage

Handling	Keep container tightly closed. Wash thoroughly after handling.
Storage	Stored in a cool, dry, ventilated area.

Section 8 - Exposure Controls, Personal Protection

Exposure guidelines	None established.
Engineering controls	No engineering controls required.
Eye/face protection	Generally protection.
Skin protection	Generally protection.
Respiratory protection	Generally protection.
General hygiene considerations	Generally protection.

ORIGINAL

Section 9 - Physical and Chemical Properties

Appearance and odor	Wet paper.	**pH**	No information found.
Freezing point (℃)	No information found.	**Boiling point (℃)**	No information found.
Density(water=1)	No information found.	**Relative vapour density (air=1)**	No information found.
Vapour pressure (kPa)	No information found.	**Heat of combustion (kJ/mol)**	No information found.
Critical temperature (℃)	No information found.	**Critical pressure (MPa)**	No information found.
Octanol/water partition coefficient as log Pow	No information found.	**Flash point (℃)**	Not applicable.
Auto-ignition temperature(℃)	No information found.	**Solubility**	No information found.
Upper explosive limits %(V/V)	No information found.	**Lower explosive limits %(V/V)**	No information found.
Other properties	No information found.	**End uses**	To help prevent infection.

Section 10 - Stability and Reactivity

Chemical stability	Stable under ordinary conditions of use and storage.
Conditions to avoid	Heat, flames, ignition sources and incompatibles.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Carbon oxides.
Possibility of hazardous reactions	Will not occur.

Section 11 - Toxicological Information

Acute toxicity	Benzalkonium chloride (CAS: 8001-54-5): Oral, mouse: LD50 = 150 mg/kg.
Inhalation	No information.
Eye irritation	No information.
Skin irritation	No information.
Sensitisation	No information.
Repeated dose toxicity	No information.
Carcinogenicity	All ingredients are not listed by IARC.
Mutagenicity	No information.
Reproductive effects	No information.
Delevopment effects	No information.

Section 12 - Ecological Information

Ecotoxicity	This material is not expected toxic to aquatic life. Benzalkonium chloride (CAS: 8001-54-5): Lepomis macrochirus LC50 = 0.31 mg/kg (96h).
Persistence/ Degradability	No information.
Bioaccumulation/ Accumulation	No information.
Mobility in environment	No information.

Section 13 - Disposal Considerations

Disposal measures	Not regulated.
Notes	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

Section 14 - Transport Information

Regulations	**US DOT**	**IATA DGR**	**IMDG Code**
UN No.	Not regulated as a hazardous material.	Not regulated as a hazardous material.	Not regulated as a hazardous material.
Hazard Class	Not regulated.	Not regulated.	Not regulated.
Shipping Name	Not regulated.	Not regulated.	Not regulated.
Packing Group	Not regulated.	Not regulated.	Not regulated.
Packing method	Not regulated.	Not regulated.	Not regulated.

Section 15 - Regulatory Information

Component	**CAS No.**	**TSCA**	**DSL**	**Section 302 (EHS)**	**Section 304 EHS RQ**	**CERC LARQ**	**Section 313**	**RCRA CODE**	**CAA 112(r) TQ**
Benzalkonium chloride	8001-54-5	Yes	Yes	No	No	No	No	No	No
Water	7732-18-5	Yes	Yes	No	No	No	No	No	No

Section 16 - Additional Information

Revision	0
Issue date	November 6, 2015
Prepared by	TÜV SÜD Products Testizng (Shanghai) Co.,Ltd. Guangzhou Branch
Checked by	TÜV SÜD Products Testizng (Shanghai) Co.,Ltd. Guangzhou Branch
Other information	-

Disclaimer: This MSDS conforms to the requirements of 29CFR 1910.1200 and ANSI Z400.1/Z 129.1-2010. This MSDS is offered to you in good faith as accurate. We have reviewed any information contained in this data sheet which we received from sources outside our company. We believe that information to be correct but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to complywith all applicable laws and regulations. No statement made in this data sheet shall be construed as a permissionor recommendation for the use of any product in a manner that might infringe existing patents. No warranty ismade, either express or implied.

This report replaces the original report 721622569-7-A

-END OF THE TEST REPORT-

Report No.: 721622569-6-B

Issue Date: 6 November 2015

Triple Antibiotic Ointment

ORIGINAL

SUBJECT	**Material Safety Data Sheet**
TEST LOCATION	**TÜV SÜD China** TÜV SÜD Products Testizng (Shanghai) Co.,Ltd. Guangzhou Branch 4F, Communication Building, 163 Pingyun Rd, Huangpu West Ave. Guangzhou 510656 P. R. China
CLIENT NAME	**GFA PRODUCTION XIAMEN CO., LTD.**
CLIENT ADDRESS	NO.20 HULI INDUSTRIAL PARK,MEI XI ROAD,TONG AN,XIAMEN,FUJIAN,CHINA
PREPARATION PERIOD	22-Oct-2015~06-Nov-2015
SUMMARY	MSDS conforms to the requirements of Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (Regulation (EC) No 453/2010) and Classification, Labelling and Packaging of Substances and Mixtures (Regulation (EC) No 1272/2008)

Prepared By: _____
(Kola Liang)
Assistant CS Representative

Authorized By: _____
(Jone Liu)
Senior Test Engineer

Safety Data Sheet

Triple Antibiotic Ointment

Issue Date: 6 November 2015

ORIGINAL

Section 1 - Chemical Product and Company Identification

Product Name	Triple Antibiotic Ointment		
Synonyms	Not applicable	**CAS No.**	Not applicable
Molecular formula	Not applicable	**Molecular mass**	Not applicable
Manufacturer/Supplier	GFA PRODUCTION XIAMEN CO., LTD.		
Address	NO.20 HULI INDUSTRIAL PARK,MEI XI ROAD,TONG AN,XIAMEN,FUJIAN,CHINA		

Section 2 - Hazards Identification

Emergency overview	Offwhite gel. Not a hazardous substance or mixture.
OSHA regulatory	This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Potential health effects	Likely Routes of Exposure: Skin, eye, inhalation and ingestion. Skin Contact: No adverse health effects expected. Eye Contact: No adverse health effects expected. Inhalation: No adverse health effects expected. Ingestion: Large quantities swallowed may cause irritation to the gastrointestinal tract. See Section 11 for more information.
Potential environmental effects	This material is not expected to be toxic to aquatic life. See Section 12 for more information.

Section 3 - Composition/Information on Ingredient

Component	Range % by Wt.	CAS No.
Vaseline	96.41	8009-03-8
Mineral oil	2.00	8042-47-5
Bacitracin Zinc	1.00	1405-87-4
Neomycin Sulfate	0.51	1404-04-2
Polymyxin B sulfate	0.08	1405-20-5

Section 4 - First Aid Measures

Skin contact	Not expected to require first aid measures. Immediately flush skin with plenty of water.
Eye contact	Not expected to require first aid measures. Immediately flush eyes with water. Get medical attention if irritation develops.
Inhalation	Not expected to require first aid measures. Get medical attention.
Ingestion	Not expected to require first aid measures. If swallowed, rinse thoroughly. Get medical attention immediately.
Note to Physicians	No information found.

ORIGINAL

Section 5 - Fire Fighting Measures

Flammable properties	Not considered to be a fire hazard.
Extinguishing media	Use fire extinguishing methods suitable to surrounding conditions.
Unsuitable extinguishing media	None.
Hazardous combustion products	Carbon oxides, nitrogen oxides (NOx), Sulphur oxides.
Protection of firefighters	No information found.

Section 6 - Accidental Release Measures

Personal precautions	Use personal protection recommended in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering.
Environmental precautions	Contain and recover liquid when possible. Avoid runoff into storm sewers and ditches which lead to waterways.
Methods for containment	In case of a small amount of release, absorb spill with inert material (e.g. vermiculite, sand or earth), as well as flush with plenty of water and dilute into the wastewater system. In case of great amount of release, collect spill with causeway or trench.
Methods for clean-up	Removal of ignition sources. A vapor suppressing foam may be used to reduce vapors. Place in suitable container or tanks, recycle or ship to the waste plant.
Other information	None.

Section 7 - Handling and Storage

Handling	Keep container tightly closed. Wash thoroughly after handling.
Storage	Stored in a cool, dry, ventilated area.

Section 8 - Exposure Controls, Personal Protection

Exposure guidelines	Petroleum Jelly (CAS: 8009-03-8): -Occupational Exposure Limits (OSHA): 5 mg/m3 (TWA); -ACGIH Threshold Limit Values: 5 mg/m3 (TWA).
Engineering controls	Use general ventilation and use local exhaust, where possible, in confined or enclosed spaces. Provide emergency eyewash and shower equipment.
Eye/face protection	Use tight-fitting goggles, face shield or safety glasses with side shields if eye contact might occur.
Skin protection	Wear general protective clothing.
Respiratory protection	Suitable respiratory protective device recommended.
General hygiene considerations	Wash thoroughly after handing. Have eye-wash facilities immediately available.

ORIGINAL

Section 9 - Physical and Chemical Properties

Appearance and odor	Offwhite gel.	**pH**	No information found.
Freezing point (℃)	No information found.	**Boiling point (℃)**	No information found.
Density(water=1)	No information found.	**Relative vapour density (air=1)**	No information found.
Vapour pressure (kPa)	No information found.	**Heat of combustion (kJ/mol)**	No information found.
Critical temperature (℃)	No information found.	**Critical pressure (MPa)**	No information found.
Octanol/water partition coefficient as log Pow	No information found.	**Flash point (℃)**	No information found.
Auto-ignition temperature(℃)	No information found.	**Solubility**	No information found.
Upper explosive limits %(V/V)	No information found.	**Lower explosive limits %(V/V)**	No information found.
Other properties	No information found.	**End uses**	To help prevent infection.

Section 10 - Stability and Reactivity

Chemical stability	Stable under ordinary conditions of use and storage.
Conditions to avoid	Heat, flames, ignition sources and incompatibles.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Carbon oxides, nitrogen oxides (NOx), Sulphur oxides.
Possibility of hazardous reactions	Will not occur.

Section 11 - Toxicological Information

Acute toxicity	Bacitracin Zine (CAS: 1405-87-4): oral mouse LD50 > 3787.5 mg/kg. Polymyxin B sulfate (CAS: 1405-20-5): oral mouse LD50 = 790 mg/kg.
Inhalation	No information.
Eye irritation	No information.
Skin irritation	No information.
Sensitisation	No information.
Repeated dose toxicity	No information.
Carcinogenicity	All ingredients are not listed by IARC.
Mutagenicity	No information.
Reproductive effects	No information.
Delevopment effects	No information.

ORIGINAL

Section 12 - Ecological Information

Ecotoxicity	This material is not expected toxic to aquatic life.
Persistence/ Degradability	No information.
Bioaccumulation/ Accumulation	No information.
Mobility in environment	No information.

Section 13 - Disposal Considerations

Disposal measures	Not regulated.
Notes	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

Section 14 - Transport Information

Regulations	**US DOT**	**IATA DGR**	**IMDG Code**
UN No.	Not regulated as a hazardous material.	Not regulated as a hazardous material.	Not regulated as a hazardous material.
Hazard Class	Not regulated.	Not regulated.	Not regulated.
Shipping Name	Not regulated.	Not regulated.	Not regulated.
Packing Group	Not regulated.	Not regulated.	Not regulated.
Packing method	Not regulated.	Not regulated.	Not regulated.

Section 15 - Regulatory Information

Component	**CAS No.**	**TSCA**	**DSL**	**Section 302 (EHS)**	**Section 304 EHS RQ**	**CERC LARQ**	**Section 313**	**RCRA CODE**	**CAA 112(r) TQ**
Vaseline	8009-03-8	Yes	Yes	No	No	No	No	No	No
Mineral oil	8042-47-5	Yes	Yes	No	No	No	No	No	No
Bacitracin Zinc	1405-87-4	Yes	Yes	No	No	No	No	No	No
Neomycin Sulfate	1404-04-2	Yes	Yes	No	No	No	No	No	No
Polymyxin B sulfate	1405-20-5	Yes	Yes	No	No	No	No	No	No

ORIGINAL

Section 16 - Additional Information

Revision	0
Issue date	November 6, 2015
Prepared by	TÜV SÜD Products Testizng (Shanghai) Co.,Ltd. Guangzhou Branch
Checked by	TÜV SÜD Products Testizng (Shanghai) Co.,Ltd. Guangzhou Branch
Other information	-

Disclaimer: This MSDS conforms to the requirements of 29CFR 1910.1200 and ANSI Z400.1/Z 129.1-2010. This MSDS is offered to you in good faith as accurate. We have reviewed any information contained in this data sheet which we received from sources outside our company. We believe that information to be correct but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to complywith all applicable laws and regulations. No statement made in this data sheet shall be construed as a permissionor recommendation for the use of any product in a manner that might infringe existing patents. No warranty ismade, either express or implied.

This report replaces the original report 721622569-6-A

-END OF THE TEST REPORT-

GLOW STICK

Safety Data Sheet

According to OSHA Hazard Communication Standard 29 CFR 1910.1200

SECTION 1: Identification

1.1. Identification

Product form	:	Mixture
Trade name	:	GLOW STICK
Product description	:	GLOW STICK, GLOW BRACELET, GLOW NECKLACE, GLOW CUP, GLOW WAND WITH ASST COLORS RED/GREEN/BLUE/YELLOW/PINK/ORANGE/PURPLE/WHITE/AQUA

1.2. Recommended use and restrictions on use

Main use category	:	Used in decoration.
Restrictions on use	:	No information available

1.3. Supplier

Supplier	:	Xiamen Long Afterglow Co.,Ltd.
Address	:	No.1043,Tong Ji Zhong Road,Tong An Area,Xiamen,Fujian Province,China
Phone	:	+86-592-3675699
FAX	:	+86-592-3675698
E-mail	:	elaine@glo-novelty.com
Web	:	www.glo-novelty.com

1.4. Emergency telephone number

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Not classified

2.2. GHS Label elements, including precautionary statements

GHS-US labelling

No labelling applicable

Hazard pictograms (GHS-US)	:	None
Signal word (GHS-US)	:	None
Hazard statements (GHS-US)	:	Not applicable
Precautionary statements (GHS-US)	:	Not applicable

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

This technical report may only be quoted in full. Any use for advertising purposes must be granted in writing. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production.

3.2. Mixtures

Name	Product identifier	%
Dimethyl phthalate	(CAS-No.) 131-11-3	58.5
Butyl benzoate	(CAS-No.) 136-60-7	28.5
Water	(CAS-No.) 7732-18-5	6
Bis[2,3,5-trichloro-6-[(pentyloxy)carbonyl]phenyl] oxalate	(CAS-No.) 75203-51-9	4.7
Hydrogen peroxide	(CAS-No.) 7722-84-1	2.2
Anthracene, 9,10-bis(phenylethynyl)-	(CAS-No.) 10075-85-1	0.1

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice (show directions for use or safety data sheet if possible).

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing;
Give oxygen or artificial respiration if necessary;
If you feel unwell, seek medical advice.

First-aid measures after skin contact : Wash skin with plenty of water and take off contaminated clothing;
If skin irritation or rash occurs: Get medical advice/attention;
Wash contaminated clothing before reuse

First-aid measures after eye contact : Rinse cautiously with water for several minutes while holding the eyelids wide open;
Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention

First-aid measures after ingestion : If swallowed, rinse mouth;
Do not induce vomiting;
Give nothing or a little water to drink;
Never give anything by mouth to an unconscious person;
If you feel unwell, seek medical advice;

4.2. Most important symptoms and effects (acute and delayed)

No information available.

4.3. Immediate medical attention and special treatment, if necessary

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

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Use carbon dioxide, dry extinguishing media, water spray, water.

Unsuitable extinguishing media : None

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Combustion produces toxic or irritating gases and fumes.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

Other information : Evacuate personnel to a safe area. Move containers from fire area if it can be done without personal risk. Cool tanks/drums with water spray/remove them into safety. Stay upwind. Avoid breathing vapour or dusts. Provide storage and work areas with suitable fire extinguishers. Collect contaminated firefighting water separately, it must not enter drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin, eyes and inhalation of vapors

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Stop leak if safe to do so. Evacuate personnel to a safe area;Ensure adequate ventilation, especially in confined areas;No flames, no sparks. Eliminate all sources of ignition.

6.2. Environmental precautions

Although the product is not classified as dangerous to the environment, it is advised that in the event of an accidental release the product should be prevented from reaching the sewage system or any water course, and from penetrating the ground/soil. Dispose of spilled material in accordance with the relevant local regulations. See Section 13 for disposal considerations.

6.3. Methods and material for containment and cleaning up

For containment : Isolate the spillage. Ensure adequate ventilation. Collect mechanically. Fill into labeled, suitable sealed containers for disposal in accordance with local authority regulations

Methods for 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

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Handle in accordance with good industrial hygiene and safety practice

Ensure adequate ventilation, especially in confined areas

Observe personal protective measures listed in section 8.

Do not handle until all safety precautions have been read and understood

Avoid contact with skin, eyes or clothing

Wash contaminated clothing before reuse

Keep away from heat, sparks, flame and other sources of ignition

Avoid breathing vapors or mists

Any deposit of dust which cannot be avoided must be removed regularly.

Hygiene measures : Do not eat, drink or smoke when using this product.

Always wash hands after handling the product.

Remove contaminated clothing and protective equipment before entering eating areas.

Avoid formation of dust, inhalation and ingestion.

Avoid contact with eyes, skin and clothing.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep containers tightly closed in a dry, cool and well-ventilated place

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Keep locked up and out of reach of children

Keep away from food, drink and animal feeding stuffs

Always keep in containers of the same material as the original one

Store away from incompatible substances (reducing agents, nitrite salts and potassium chlorate).

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Dimethyl phthalate (131-11-3)		
ACGIH	ACGIH TWA (mg/m³)	5 mg/m³
OSHA	OSHA PEL (TWA) (mg/m³)	5 mg/m³
IDLH	US IDLH (mg/m³)	2000 mg/m³
NIOSH	NIOSH REL (TWA) (mg/m³)	5 mg/m³

Butyl benzoate (136-60-7)
Not applicable

Bis[2,3,5-trichloro-6-[(pentyloxy)carbonyl]phenyl] oxalate (75203-51-9)
Not applicable

Hydrogen peroxide (7722-84-1)		
ACGIH	ACGIH TWA (ppm)	1 ppm
OSHA	OSHA PEL (TWA) (mg/m³)	1.4 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	1 ppm
IDLH	US IDLH (ppm)	75 ppm
NIOSH	NIOSH REL (TWA) (mg/m³)	1.4 mg/m³
NIOSH	NIOSH REL (TWA) (ppm)	1 ppm

Water (7732-18-5)
Not applicable

Anthracene, 9,10-bis(phenylethynyl)- (10075-85-1)
Not applicable

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Remove all sources of ignition.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Wear appropriate chemical resistant gloves.

Eye protection:

Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Skin and body protection:

Wear appropriate chemical resistant clothing.

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

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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Colour	:	No data available
Odour	:	No data available
Odour threshold	:	No data available
pH	:	No data available
Melting point	:	No data available
Boiling point	:	No data available
Flash point	:	>200ºF (93.3ºC) Closed Cup
Relative evaporation rate (butylacetate=1)	:	No data available
Flammability (solid, gas)	:	The product is not classified as flammable
Vapour pressure	:	No data available
Relative vapour density at 20 °C	:	No data available
Relative density	:	No data available
Density	:	No data available
Solubility	:	No data available
Log Pow	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosive limits	:	No data available
Explosive properties	:	Not explosive based on experience and structural considerations
Oxidising properties	:	Not oxidizing based on experience and structural considerations

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Will not polymerize.

10.4. Conditions to avoid

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

10.5. Incompatible materials

Acids, bases, oxidizing materials.

10.6. Hazardous decomposition products

Carbon monoxide (CO), carbon dioxide (CO_2) and other toxic vapors.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Dimethyl phthalate (131-11-3)	
LD50 oral rat	6800 mg/kg

Butyl benzoate (136-60-7)	
LD50 oral rat	735 mg/kg

Hydrogen peroxide (7722-84-1)	
LD50 oral rat	801 mg/kg
LD50 dermal rat	4060 mg/kg
LD50 dermal rabbit	2000 mg/kg
LC50 inhalation rat (mg/l)	2 g/m³ (Exposure time: 4 h)

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Dimethyl phthalate (131-11-3)	
LC50 fish	49.5 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)
LC50 fish	39 mg/l (Exposure time: 96 h - Species: Pimephales promelas)
LC50 fish	37 - 69 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
LC50 fish	121 mg/l (Exposure time: 96 h - Species: Pimephales promelas)

Dimethyl phthalate (131-11-3)	
LC50 fish	100 - 220 mg/l (Exposure time: 96 h - Species: Leuciscus idus [static])
LC50 fish	56 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
EC50 Daphnia	33 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 Algae	20.6 - 45.8 mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata)
EC50 Algae	28.4 - 71 mg/l (Exposure time: 72 h - Species: Pseudokirchneriella subcapitata)
EC50 Algae	142 mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata)
EC50 Algae	26.1 mg/l (Exposure time: 96 h - Species: Skeletonema costatum)
EC50 Algae	204 mg/l (Exposure time: 72 h - Species: Desmodesmus subspicatus)

Hydrogen peroxide (7722-84-1)	
LC50 fish	16.4 mg/l (Exposure time: 96 h - Species: Pimephales promelas)
LC50 fish	18 - 56 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
LC50 fish	10 - 32 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
EC50 Daphnia	18 - 32 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
EC50 Daphnia	7.7 mg/l (Exposure time: 24 h - Species: Daphnia magna [Static])
EC50 Algae	2.5 mg/l (Exposure time: 72 h)

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

Dimethyl phthalate (131-11-3)	
BCF fish 1	4.7 - 57
Log Pow	2.12

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Effect on the global warming : No known effects from this product.

GWPmix comment : No known effects from this product.

Dimethyl phthalate (131-11-3)	
1990 Hazardous Air Pollutant (Clean Air Act)	Yes

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging disposal recommendations : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not applicable

Transportation of Dangerous Goods

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

Dimethyl phthalate (131-11-3)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	
CERCLA RQ	5000 lb

Butyl benzoate (136-60-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Hydrogen peroxide (7722-84-1)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Section 302 EPCRA Reportable Quantity (RQ)	1000 lb concentration >52%
SARA Section 302 Threshold Planning Quantity (TPQ)	1000 lb (concentration >52%)

Water (7732-18-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Anthracene, 9,10-bis(phenylethynyl)- (10075-85-1)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

Dimethyl phthalate (131-11-3)
Listed on the Canadian DSL (Domestic Substances List)

Butyl benzoate (136-60-7)
Listed on the Canadian DSL (Domestic Substances List)

Hydrogen peroxide (7722-84-1)
Listed on the Canadian DSL (Domestic Substances List)

Water (7732-18-5)
Listed on the Canadian DSL (Domestic Substances List)

Anthracene, 9,10-bis(phenylethynyl)- (10075-85-1)
Listed on the Canadian NDSL (Non-Domestic Substances List)

EU-Regulations

Dimethyl phthalate (131-11-3)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Butyl benzoate (136-60-7)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Bis[2,3,5-trichloro-6-[(pentyloxy)carbonyl]phenyl] oxalate (75203-51-9)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Hydrogen peroxide (7722-84-1)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Water (7732-18-5)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Anthracene, 9,10-bis(phenylethynyl)- (10075-85-1)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations

Dimethyl phthalate (131-11-3)
Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Japanese ISHL (Industrial Safety and Health Law) Listed on the Korean ECL (Existing Chemicals List) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on INSQ (Mexican National Inventory of Chemical Substances) Listed on Turkish inventory of chemical Listed on the TCSI (Taiwan Chemical Substance Inventory)

Butyl benzoate (136-60-7)
Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Japanese ISHL (Industrial Safety and Health Law) Listed on the Korean ECL (Existing Chemicals List) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on INSQ (Mexican National Inventory of Chemical Substances) Listed on Turkish inventory of chemical Listed on the TCSI (Taiwan Chemical Substance Inventory)

Bis[2,3,5-trichloro-6-[(pentyloxy)carbonyl]phenyl] oxalate (75203-51-9)
Listed on the Korean ECL (Existing Chemicals List)

Hydrogen peroxide (7722-84-1)
Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Japanese ISHL (Industrial Safety and Health Law) Listed on the Korean ECL (Existing Chemicals List) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Japanese Poisonous and Deleterious Substances Control Law Listed on INSQ (Mexican National Inventory of Chemical Substances) Listed on Turkish inventory of chemical Listed on the TCSI (Taiwan Chemical Substance Inventory)

Water (7732-18-5)
Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Korean ECL (Existing Chemicals List) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on INSQ (Mexican National Inventory of Chemical Substances) Listed on the TCSI (Taiwan Chemical Substance Inventory)

Anthracene, 9,10-bis(phenylethynyl)- (10075-85-1)
Listed on the AICS (Australian Inventory of Chemical Substances) Listed on the Korean ECL (Existing Chemicals List) Listed on the TCSI (Taiwan Chemical Substance Inventory)

15.3. US State regulations

No additional information available

SECTION 16: Other information

Issue date	:	02-Feb-2018
Revision date	:	02-Feb-2018

Full text of H-phrases
None

Key or legend to abbreviations and acronyms used in the safety data sheet

ADR	:	European Agreement Concerning the International Carriage of Dangerous Goods by Road
IMDG	:	International Maritime Dangerous Goods
IATA	:	International Air Transport Association
ADN	:	European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterway
RID	:	Regulations Concerning the International Carriage of Dangerous Godds by Rail
PBT	:	Persistent, Bioaccumulative and Toxic
vPvB	:	Very Persistent and Very Bioaccumulative
DNEL	:	Derived No Effect Level
PNEC	:	Predicted No Effect Concentration
LC50	:	Lethal Concentration 50
LD50	:	Lethal Dose 50
EC50	:	Effective Concentration 50
TWA	:	Time Weighted Average
STEL	:	Short Term Exposure Limit

Key literature references and sources for data
ECHA: http://echa.europa.eu/
IFA GESTIS: http://gestis-en.itrust.de/nxt/gateway.dll?f=templates$fn=default.htm$vid=gestiseng:sdbeng
HSDB: http://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm
ICSC: http://www.ilo.org/dyn/icsc/showcard.home
eChemPortal: http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en
NITE-CHRIP: http://www.nite.go.jp/en/chem/chrip/chrip_search/srhInput

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch
TÜV SÜD Group

Engineer: _____ **Technical Report checked:** _____

Kevin Zhang **Ben Shao**

Safety Data Sheets (SDSs)

Client	HENAN TROILY NEW ENERGY TECHNOLOGY CO.,LTD.
Add. of Client	Industrial cluster of Yudong,Xinxiang City,Henan Province,P.R.China
Description	Rechargeable Nickel-Metal Hydride Battery
Model /Type	NI-MH 80MAH 3.6V
Manufacturer	HENAN TROILY NEW ENERGY TECHNOLOGY CO.,LTD.
Add. of Manufacturer	Industrial cluster of Yudong,Xinxiang City,Henan Province,P.R.China
Nominal Voltage	1.2V
Rating	80mAh
Date of Receipt	2023-2-14

Laboratory	Dongguan ZRLK Testing Technology Co., Ltd.
Address	Building D, No.2, Jinyuyuan Mansion, No.18, Industrial West Road, Songshan Lake High-tech Industrial Development Zone, Dongguan, Guangdong, China

Approved Signatory	Maggie.Gao	Maggie Gao
Inspected by	Ailis.Ma	Ailis Ma
Censored by	Lahm Peng	Lahm Peng



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

Product Identifier

Product name: Rechargeable Nickel-Metal Hydride Battery

Model: NI-MH 80MAH 3.6V

Other means of identification

Synonyms:none

Recommended use of the chemical and restrictions on use

Recommended Use:Used in portabl electronic equipments;

Uses advidsed against:

a) Do not dismantle, open or shred secondary cells or batteries.

b) Keep batteries out of the reach of children

Battery usage by children should be supervised. Especially keep small batteries out of reach of small children.

c) Seek medical advice immediately if a cell or a battery has been swallowed.

d) Do not expose cells or batteries to heat or fire. Avoid storage in direct sunlight.

e) Do not short-circuit a cell or a battery. Do not store cells or batteries haphazardly in a box or drawer where they may short-circuit each other or be short-circuited by other metal objects.

f) Do not remove a cell or battery from its original packaging until required for use.

g) Do not subject cells or batteries to mechanical shock.

h) In the event of a cell leaking, do not allow the liquid to come in contact with the skin or eyes. If contact has been made, wash the affected area with copious amounts of water and seek medical advice.

i) Do not use any charger other than that specifically provided for use with the equipment.

j) Observe the plus (+) and minus (–) marks on the cell, battery and equipment and ensure correct use.

k) Do not use any cell or battery which is not designed for use with the equipment.

l) Do not mix cells of different manufacture, capacity, size or type within a device.

m) Always purchase the battery recommended by the device manufacturer for the equipment.

n) Keep cells and batteries clean and dry.

o) Wipe the cell or battery terminals with a clean dry cloth if they become dirty.

p) Secondary cells and batteries need to be charged before use. Always use the correct charger and refer to the manufacturer’s instructions or equipment manual for proper charging instructions.

q) Do not leave a battery on prolonged charge when not in use.

r) After extended periods of storage, it may be necessary to charge and discharge the cells or batteries several times to obtain maximum performance.

s) Retain the original product literature for future reference.

t) Use the cell or battery only in the application for which it was intended.

u) When possible, remove the battery from the equipment when not in use.

v) Dispose of properly.

Details of the supplier of the safety data sheet:

Supplier Name: HENAN TROILY NEW ENERGY TECHNOLOGY CO.,LTD.

Address: Industrial cluster of Yudong,Xinxiang City,Henan Province,P.R.China

Telephone number of the supplier: +86-373-7722669

Postcode: 453000

E-mail address: 3396912077@qq.com

Emergency telephone number

Company Emergency Phone Number: +86-373-7722669

2. HAZARDS IDENTIFICATION

Classification

Acute toxicity - Dermal	Category 3
Serious eye damage/eye irritation	Category 2A
Carcinogenicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 1

GHS Label elements, including precautionary statements

Danger

Hazard statements

Toxic in contact with skin

Causes serious eye irritation

Suspected of causing cancer

Causes damage to organs through prolonged or repeated exposure



Precautionary statements-Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Wear protective gloves/protective clothing/eye protection/face protection

Wash face, hands and any exposed skin thoroughly after handling

Do not breathe dust/fume/gas/mist/vapors/spray

Do not eat, drink or smoke when using this product

Precautionary Statements - Response

If exposed or concerned: Get medical advice/attention

Specific treatment (see supplemental first aid instructions on this label)

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

Skin

IF ON SKIN: Wash with plenty of water and soap

Call a POISON CENTER or doctor if you feel unwell

Take off immediately all contaminated clothing and wash it before reuse

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other information

harmful if swallowed. Very toxic to aquatic life with long lasting effects.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterixation: Mixtures

Description:

Product: Consisting of the following components.

Common Chemical Name	Concentration (%)	CAS Number
Iron	35.89	7439-89-6
Nickel atom	22.02	7440-02-0
Nickel Hydroxide	13.1	12054-48-7
Lanthanum, compound with nickel (1:5)	9.8	12196-72-4
polypropylene	6.61	9003-07-0
polyvinyl chloride	5.5	9002-86-2
water	4.4	7732-18-5
Potassium hydroxide	2.2	1310-58-3
Cobalt oxide	0.44	1307-96-6
Lithium hydroxide monohydrate	0.04	1310-66-3

Note: CAS number is Chemical Abstract Service Registry Number.

N/A=Not apply.

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 Remove contaminated clothing and shoes. Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.

Inhalation Move to fresh air. If symptoms persist, call a physician.

Ingestion Do NOT induce vomiting. Drink plenty of water. If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed

Swallowing Do not induce vomiting. Get medical attention.

Most Important Symptoms/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

CO_2, dry chemical powder, water spray.

Unsuitable Extinguishing Media:No information available.

Specific Hazards Arising from the Chemical

Formation of toxic gases is possible during heating or in case of fire.

In case of fire, the following can be released:

Carbon monoxide(CO)

Carbon dioxide

Other irritating and toxic gases.

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. For example: Wear self-contained respiratory protective device. Wear suitable protective clothing and eye/face protection.

Special hazards arising from the substance or mixture:

Battery may burst and release hazardus decomposition products when exposed to a fire situation. Lithium ion batteries contain flammable electrolyte that may vent, ignite and produce sparks when subjected to high

temperature(>150℃), When damaged or abused(e.g. mechanical damage or electrical overcharging); may burn rapidly with flare-burning effect; may ignite other batteries in clothes proximity.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Avoid contact with eyes.

Refer to section 8 for personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition.

Evacuate personnel to safe areas.

Environmental precautions

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

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

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 Use personal protective equipment. Dam up. Cover liquid spill with sand, earth or other Non combustible absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Wear personal protective equipment.
Wash thoroughly after handling. Use this material with adequate ventilation.
The product is not explosive.

Conditions for safe storage, including any incompatibilities

If the Battery is subject to storage for such a long term as more than 3 months.
3 months: -10℃~+40℃, 45 to 85%RH
And recommended at 0℃~+35℃ for long period storage.
The capacity recovery rate in the delivery state (50% capacity of fully charged) after storage is assumed to be 80% or more.
The voltage for a long time storage shall be 3.7V~4.2V range.
Do not storage Lithium-ion Battery haphazardly in a box or drawer where they may short-circuit each other or be short-circuited by other metal objects.
Keep out of reach of children.
Do not expose Lithium ion battery to heat or fire. Avoid storage in direct sunlight.
Do not store together with oxidizing and acidic materials.
Keep ignition sources away- Do not smoke.
Store in cool, dry and well-ventilated place.

Incompatible Products None known.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control parameters

Ingredients with limit values that require monitoring at the workplace:	
TLV (USA)	0.02mg/m^3
MAK (Germany)	0.1mg/m^3

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

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Ensure adequate ventilation.

Individual protection measures, such as personal protective equipment

Eye/Face Protection:



Tightly sealed goggles

Body protection:

Protective work clothing.

Skin protection:



Protective gloves

Material of gloves:

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

Penetration time of glove material:

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

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 State	Form: Cylindrical
	Color: silver
	Odour: Odourless
	Odor Threshold: No information available
Change in condition:	
pH, with indication of the concentration	Not determined.
Melting point/freezing point	Not determined.
Initial boiling point and Boiling range:	Not determined.
Flash Point	Not determined.
Evaporation rate	Not determined.
Flammability (solid, gas)	Not determined.
Upper/lower flammability or explosive limits	Not determined.
Vapor Pressure:	Not determined.
Vapor Density:	Not determined.
relative density:	Not determined.
Solubility in Water:	Not determined.
Solubility in other solvents	Not determined.
n-octanol/water partition coefficient	Not determined.
Auto-ignition temperature	Product is not self-igniting.
Decomposition temperature	Not determined.
Odout threshold	Not determined.
Evaporation rate	Not determined.
Viscosity	Not determined.
Other Information	No further relevant information available.

10. STABILITY AND REACTIVITY

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

Chemical stability: Stable under normal conditions of use, storage and transport.

Thermal decomposition/conditions to be avoided: No decomposition if used according to specifications.

Possibility of Hazardous Reactions: None under normal processing.

Hazardous Polymerization: Hazardous polymerization does not occur.

Conditions to avoid: Strong heating, fire, Incompatible materials.

Incompatible materials: Strong oxidizing agents. Strong acids.Base metals.

Hazardous Decomposition Products: Carbon oxides, Other irritating and toxic gases.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: No data available.

LD/LC50 values relevant for classification:
Not available.

Skin corrosion/irritation: No irritant effect.

Serious eye damage/irritation: Cause serious eye irritation.

Respiratory or skin sensitization: No sensitizing effects known.

Specific target organ system toxicity: No information available.

CMR effects(carcinogenity, mutagenicity and toxicity for reproduction): No information available.

12. Ecological Information

Toxicity:

Acquatic toxicity:
No further relevant information available.

Persistence and degradability: No further relevant information available.

Bioaccumulative potential: No further relevant information available.

Mobility in soil: No further relevant information available.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects: No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Recommendation: Must not be disposed together with household garbage.

Do not allow product to reach sewage system

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION

Land transport

ADR/RID class: Not regulated.

Maritime transport

Non-hazardous for sea transport.

Air transport

The Rechargeable Nickel-Metal Hydride Battery according to SP A 199 of the 2022 IATA Dangerous Goods regulations 63rd Edition may be transported. and applicable U.S. DOT regulations for the safe transport of Rechargeable Nickel-Metal Hydride Battery.
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 Rechargeable Nickel-Metal Hydride Battery having the potential of a dangerous evolution of heat must be prepared for transport so as to prevent:
a short-circuit (e.g. in the case of batteries, by the effective insulation of exposed terminals; or, in the case of equipment, by disconnection of the battery and protection of exposed terminals); and
unintentional activation.
The words “Not Restricted” and the Special Provision number must be included in the description of the substance on the Air Waybill as required by 8.2.6, when an Air Waybill is issued.
The package must be handled with care and that a flammability hazard exists if the package is damaged;

15. REGULATORY INFORMATION

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

EU Regulation:

Authorisations: No information available.

Restrictions on use: No information available.

Regulatory information

CAS No.	EU (EINECS)	**US (TSCA)**	**Japan (ENCS)**	**Canada (DSL/ NDSL)**	**Austrlia (AICS)**	**Korea (ECL)**	**China (IECSC)**
12054-48-7	Listed	Not listed	Not listed	NDSL	Not listed	Not listed	Not listed
1310-58-3	Listed	Listed	Listed	DSL	Listed	Listed	Listed
7732-18-5	Listed	Listed	Listed	DSL	Listed	Listed	Listed
1345-25-1	Not listed	Listed	Not listed	DSL	Listed	Listed	Listed
12196-72-4	Not listed	Listed	Not listed	DSL	Listed	Listed	Listed
1310-73-2	Listed	Not listed	Not listed	NDSL	Not listed	Not listed	Not listed
7782-42-5	Listed	Not listed	Not listed	NDSL	Not listed	Not listed	Not listed

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

16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**********End of SDS**********

ARTICLE INFORMATION SHEET/SAFETY DATA SHEET (AIS/SDS)

Alkaline Manganese Dioxide-Zinc Battery

This Article Information Sheet (AIS) provides relevant battery information to retailers, consumers, OEMs and other users requesting a GHS-compliant SDS. Articles, such as batteries, are exempt from GHS SDS classification criteria. The GHS criteria is not designed or intended to be used to classify the physical, health and environmental hazards of an article. Branded consumer batteries are defined as electro-technical devices. The design, safety, manufacture, and qualification of Energizer and Rayovac branded consumer batteries follow ANSI and IEC battery standards.

SECTION 1 - Identification

Product Name: Energizer	**Document Number:** 1022-Alk
Chemical System: Alkaline Manganese Dioxide-Zinc	**Date Prepared:** January 2023
Designed for Recharge: No	**Valid Until:** January 2026

Prepared by: Energizer

Energizer Brands, LLC
533 Maryville University Drive
St. Louis, MO 63141

Email for Information:
customersupport@energizer.com

1-800-383-7323

Description	Alkaline Manganese Dioxide-Zinc Battery
Use	Portable power source
Brand	ENERGIZER/EVERREADY
IEC Designation	ncluded but not limited to: LR8D425, LR03, LR6, LR14, LR20, 6LR61, LR1, 4LR25Y, 6LF22
Sizes	ncluded but not limited to: AAAA, AAA, AA, C, D, 9V, N, Lantern
Image	

SECTION 2 – Hazards Identification

Not applicable to Batteries which are classified as Articles

Articles, such as batteries, are exempt from GHS SDS classification criteria. The GHS criteria are not designed or intended to be used to classify the physical, health and environmental hazards of an article.

Inhalation: Contents of an open battery can cause respiratory irritation.
Skin Contact: Contents of an open battery can cause skin irritation.
Eye Contact: Contents of an open battery can cause severe irritation.

©2022 Energizer

SECTION 3 – Composition / Information

The battery should not be opened or burned. Exposure to the ingredients contained within or their combustion products could be harmful.

All Energizer Alkaline Manganese Dioxide-Zinc have zero added mercury.

MATERIAL OR INGREDIENT	CAS #	%/wt.
Graphite	7782-42-5	2-6
Manganese Dioxide	1313-13-9	30-45
Potassium Hydroxide	1310-58-3	4-8
Zinc	7440-66-6	12-25
Non-Hazardous Components Steel	65997-19-5	18-22
Water, Paper, Plastic and Other		Balance

SECTION 4 – First Aid Measures

Ingestion: Do not induce vomiting or give food or drink. Seek medical attention immediately. CALL NATIONAL BATTERY INGESTION HOTLINE for advice and follow-up (800-498-8666) day or night.

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

SECTION 5 – Fire Hazard & Firefighting

In case of fire, it is permissible to use any class of extinguishing medium on these batteries or their packing material. Cool exterior of batteries if exposed to fire to prevent rupture.

Fire fighters should wear self-contained breathing apparatus.

SECTION 6 – Accidental Release Measures

Not applicable to Batteries which are classified as Articles

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

REPORTING PROCEDURE: Report all spills in accordance with Federal, State and Local reporting requirement.

©2022 Energizer

SECTION 7 - HANDLING AND STORAGE

Storage: Store in a cool, well ventilated area. Elevated temperatures can result in shortened battery life.

Mechanical Containment: Designers of any water or air-tight device should be aware of the normal evolution of hydrogen gas from alkaline batteries. This gas must be either absorbed or allowed to escape to avoid a potential safety issue.

Handling: Accidental short circuit for a few seconds will not seriously affect the battery. Prolonged short circuit will cause the battery to lose energy through heating, and can cause the safety release vent to open. Sources of short circuits include jumbled batteries in bulk containers, metal jewelry, metal covered tables or metal belts used for assembly of batteries into devices.

Soldering directly to a battery is not recommended. If welding to the battery is required, consult your Energizer sales representative for proper precautions to prevent seal damage or short circuit.

Charging: This battery is manufactured in a charged state. It is not designed for recharging. Recharging can cause battery leakage or, in some cases, high pressure rupture. Inadvertent charging can occur if a battery is installed backwards.

Labeling: The label acts as an electrical insulation for the battery can. Damage to the label can increase the potential for a short circuit.

WARNING: Do not install backwards, charge, put in fire, or mix with other battery types as it may explode or leak causing injury.
Replace all batteries at the same time.

SECTION 8 – Exposure Controls

Not applicable to Batteries which are classified as Articles

In case of rupture or leakage use hand protection. Avoid contact with skin and eyes

SECTION 9 – TRANSPORT INFORMATION

Not applicable to Batteries which are classified as Articles

SECTION 10 – STABILITY AND REACTIVITY

STABLE OR UNSTABLE: Stable

INCOMPATIBILITY (MATERIALS TO AVOID): Not Applicable to articles.

HAZARDOUS DECOMPOSITION PRODUCTS: Not Applicable to articles.

DECOMPOSITION TEMPERATURE (0°F): Not Applicable to articles.

HAZARDOUS POLYMERIZATION: Will Not Occur

CONDITIONS TO AVOID: Avoid electrical shorting, puncturing or deform

©2022 Energizer

SECTION 11 – TOXILOGICAL INFORMATION

MATERIAL OR INGREDIENT	PEL (OSHA)	TLV (ACGIH)	%/wt.
Graphite (CAS# 7782-42-5)	15 mg/m^3 TWA (total dust) 5 mg/m^3 TWA (respirable fraction)	2 mg/m^3 TWA (respirable fraction)	2-6
Manganese Dioxide (CAS# 1313-13-9)	5 mg/m^3 Ceiling (as Mn)	0.2 mg/m^3 TWA (as Mn)	30-45
Potassium Hydroxide (CAS# 1310-58-3)	None established	2 mg/m^3 Ceiling	4-8
Zinc (CAS# 7440-66-6)	15 mg/m^3 TWA PNOR* (total dust) 5 mg/m^3 TWA PNOR* (respirable fraction)	10 mg/m^3 TWA PNOC** (inhalable particulate) 3 mg/m^3 TWA PNOC** (respirable particulate)	12-25
Non-Hazardous Components Steel iron CAS# 65997-19-5 Water, Paper, Plastic and Other	None established None established	None established None established	18-22 Balance

SECTION 12 – Ecological Information

Dispose of properly when discharged. Use a recycling outlet if available. Those collecting batteries should follow state and federal regulations.

Partially discharged damaged batteries can overheat and cause fires in the presence of other combustible materials.

SECTION 13 – Disposal Considerations

Dispose of in accordance with all applicable federal, state and local regulations. Appropriate disposal technologies include incineration and land filling.

©2022 Energizer

SECTION 14 – TRANSPORT INFORMATION

In general, all batteries in all forms of transportation (ground, air, or ocean) must be packaged in a safe and responsible manner. Regulatory concerns from all agencies for safe packaging require that batteries be packaged in a manner that prevents short circuits and be contained in "strong outer packaging" that prevents spillage of contents. All original packaging for Energizer alkaline batteries has been designed to be compliant with these regulatory concerns.

Alkaline batteries (sometimes referred to as "Dry cell" batteries) are not listed as dangerous goods under the ADR European Agreement Concerning the International Carriage of Dangerous Goods by Road, the IMDG International Maritime Dangerous Goods Code, UN Dangerous Good Regulations, IATA Dangerous Goods Regulations, ICAO Technical Instructions and the U.S. hazardous materials regulations (49 CFR). These batteries are not subject to the dangerous goods regulations provided they meet the requirements contained in the following special provisions.

Regulatory Body	Special Provisions
ADR	Not regulated
IMDG	Not regulated
UN	Not regulated
US DOT	49 CFR 172.102 Provision 130
IATA	A123
ICAO	Not regulated

All Energizer alkaline batteries are packed in such a way to prevent short circuits or the generation dangerous quantities of heat and meet the special provisions listed above. In addition, the IATA Dangerous Goods Regulations and ICAO Technical Instructions require the words "not restricted" and the Special Provision number A123 be provided on the air waybill, when an air waybill is issued.

For emergency information call ChemTel 1-800-526-4727 (North America) or 1-314-985-1511 (International).

SECTION 15 – REGULATORY INFORMATION

Applicable Battery Industry Standards

North America Standards	ANSI C18.3M Part 1	ANSI C18.3 M Part 2	ANSI C18.4
International Standards	IEC 60086-1	IEC 60086-2	IEC 60086-4

15.1 Battery

1. **SARA/TITLE III**: As an article, this battery and its contents are not subject to the requirements of the Emergency Planning and Community Right-To-Know Act.
2. **USA EPA Mercury Containing & Rechargeable Battery Management Act of 1996:** No mercury added
3. **EU Battery Directive 2006/66/EC Amended 2013/56/EU:** Energizer batteries are compliant with all aspects of the Directive

©2022 Energizer

15.2 General

1. **CPSIA 2008:** Exempt
2. **US CPSC FHSA (16 CFR 1500):** Not applicable since batteries are defined as articles
3. **USA EPA TSCA (40 CFR 707.20):** Not applicable since batteries are defined as articles
4. **USA EPA RCRA (40 CFR 261):** Classified as non-hazardous waste per ignitable, corrosive, reactive or toxicity testing
5. **California Prop 65:** No warning required
6. **DTSC Perchlorate labeling:** No warning required
7. **EU REACH SVHC:** No REACH listed substances of very high concern are present above 0.1% w/w.

15.3 Article Definitions

1. **OSHA Hazard Communication Standard, Section 1910.1200(c)**

SECTION 16 - OTHER INFORMATION

Energizer has prepared copyrighted Article Information Sheets to provide information on the different Eveready/Energizer/Rayovac battery systems. Batteries are articles as defined under the GHS and exempt from GHS classification criteria (Section 1.3.2.1.1 of the GHS). The information and recommendations set forth herein are made in good faith, for information only, and are believed to be accurate as of the date of preparation. However, ENERGIZER BRANDS, LLC MAKES NO WARRANTY, EITHER EXPRESS OR IMPLIED, WITH RESPECT TO THIS INFORMATION AND DISCLAIMS ALL LIABILITY FROM REFERENCE ON IT.

16.1 ACRONYM GLOSSARY

1. ANSI: American National Standards Institute
2. CPSC: Consumer Product Safety Commission
3. CPSIA: Consumer Product Safety Improvement Act
4. DTSC: Department of Toxic Substances Control
5. EPA: Environmental Protection Agency
6. FHSA: Federal Hazardous Substances Act
7. GHS: Globally Harmonized System for Hazard Communication
8. IEC: International Electrotechnical Commission
9. OSHA: Occupational Safety and Health Administration
10. RCRA: Resource Conservation and Recovery Act
11. SDS: Safety Data Sheet
12. SVHC: Substances of Very high Concern
13. TSCA: Toxic Substances Control Act

©2022 Energizer

FICHE D'INFORMATIONS RELATIVES À L'ARTICLE/FICHE DE DONNÉES DE SÉCURITÉ (FIA/FDS)

Pile alcaline au dioxyde de manganèse-zinc

La présente fiche d'informations relatives à l'article (FIA) fournit des informations pertinentes sur les piles aux distributeurs, aux consommateurs, aux OEM et aux autres utilisateurs qui requièrent une FDS conforme au SGH. Les articles, tels que les piles, sont exemptés des critères de classification des FDS selon le SGH. Les critères du SGH ne sont pas destinés ou prévus en vue d'être utilisés pour classer les dangers physiques, sanitaires et environnementaux d'un article. Les piles grand public sont définies comme des dispositifs électrotechniques. La conception, la sécurité, la fabrication et la certification des piles Energizer et Rayovac grand public sont conformes aux normes de piles ANSI et IEC.

SECTION 1 : IDENTIFICATION

Nom du produit : Energizer	**Numéro du document :** 1022-Alk
Système chimique : alcaline au dioxyde de manganèse-zinc	**Date de préparation :** janvier 2023
Conçue pour être rechargée : Non	**Date de validité :** janvier 2026
Préparée par : Energizer Energizer Brands, LLC 533 Maryville University Drive St. Louis, MO 63141 Pour plus d'informations, envoyer un e-mail à : customersupport@energizer.com 1 800 383 7323	

Description	Pile alcaline au dioxyde de manganèse-zinc
Utilisation	Source d'alimentation portable
Marque	ENERGIZER/EVEREADY
Désignation IEC	omprend, sans s'y limiter : LR8D425, LR03, LR6, LR14, LR20, 6LR61, LR1, 4LR25Y, 6LF22
Tailles	omprend, sans s'y limiter : AAAA, AAA, AA, C, D, 9 V, N, lanterne
Image	

SECTION 2 : IDENTIFICATION DES DANGERS

Non applicable aux piles classées en tant qu'articles

Les articles, tels que les piles, sont exemptés des critères de classification des FDS selon le SGH. Les critères du SGH ne sont pas destinés ou prévus en vue d'être utilisés pour classer les dangers physiques, sanitaires et environnementaux d'un article.

Inhalation : le contenu d'une pile ouverte peut entraîner l'irritation des voies respiratoires.
Contact avec la peau : le contenu d'une pile ouverte peut entraîner l'irritation de la peau.
Contact avec les yeux : le contenu d'une pile ouverte peut entraîner une grave irritation.

©2022 Energizer

SECTION 3 : COMPOSITION/INFORMATIONS

la pile ne doit pas être ouverte ni jetée au feu. L'exposition aux ingrédients qu'elle contient ou la combustion de ceux-ci peut être nocive.

Aucune pile alcaline au dioxyde de manganèse-zinc Energizer ne contient de mercure ajouté.

MATÉRIAU OU INGRÉDIENT	N° CAS	%/masse
Graphite	7782-42-5	2-6
Dioxyde de manganèse	1313-13-9	30-45
Hydroxyde de potassium	1310-58-3	4-8
Zinc	7440-66-6	12-25
Composants inoffensifs Acier	65997-19-5	18-22
Eau, papier, plastique et autre		Balance

SECTION 4 : MESURES DE PREMIERS SECOURS

Ingestion : ne forcez pas la personne à vomir et ne lui donnez rien à manger ou à boire. Appelez immédiatement un médecin. Pour obtenir des conseils et organiser un suivi, APPELEZ L'ASSISTANCE TÉLÉPHONIQUE NATIONALE CHARGÉE DE L'INGESTION DE PILES (800 498 8666) de jour comme de nuit.

Peau et yeux : En cas d'éclatement d'une pile, rincez la peau exposée à l'eau tiède pendant au moins 15 minutes. Demandez immédiatement des soins médicaux pour les yeux. Lavez la peau à l'eau et au savon.

SECTION 5 : RISQUE D'INCENDIE ET LUTTE CONTRE L'INCENDIE

En cas d'incendie, vous pouvez utiliser n'importe quelle classe d'agent extincteur sur ces piles ou sur leur emballage. Rafraîchissez l'extérieur des piles pour éviter leur éclatement si elles ont été exposées au feu.

Les pompiers doivent porter des appareils respiratoires autonomes.

SECTION 6 : MESURES EN CAS DE REJET ACCIDENTEL

Non applicable aux piles classées en tant qu'articles

POUR CONTENIR ET NETTOYER LES FUITES OU LES DÉVERSEMENTS : En cas d'éclatement d'une pile, évitez tout contact avec la peau et collectez tous les matériaux rejetés dans un récipient métallique doublé de plastique.

PROCÉDURE DE SIGNALEMENT : Signalez tous les déversements conformément aux exigences fédérales, nationales et locales en matière de signalement.

©2022 Energizer

SECTION 7 : MANIPULATION ET ENTREPOSAGE

Entreposage : entreposez dans un endroit frais, bien aéré. Les températures élevées peuvent raccourcir la durée de vie de la pile.

Confinement mécanique : les concepteurs de dispositifs étanches à l'eau ou à l'air doivent être conscients de l'évolution normale de l'hydrogène gazeux des piles alcalines. Ce gaz doit être absorbé ou pouvoir s'échapper pour éviter tout problème de sécurité potentiel.

Manipulation : la mise en court-circuit accidentel de quelques secondes n'endommagera pas gravement la pile. Les courts-circuits prolongés déchargeront la pile sous l'effet de la chaleur et peuvent entraîner l'ouverture de l'évent de sécurité. Les sources de courts-circuits incluent des piles mises pêle-mêle dans des contenants, des bijoux métalliques, des tables métallisées et des ceintures en métal utilisées pour insérer les piles dans les dispositifs.

Il est déconseillé de souder une pièce directement à une pile. Pour souder une pièce à la pile, contactez votre représentant commercial Energizer pour connaître les précautions à prendre afin d'éviter d'endommager l'étanchéité ou de court-circuiter la pile.

Recharge : cette pile est fournie déjà chargée. Elle n'est pas conçue pour être rechargée. Sa recharge peut entraîner des fuites ou, dans certains cas, son éclatement en raison d'une pression élevée. Une recharge accidentelle peut survenir si la pile est installée à l'envers.

Étiquetage : l'étiquette sert d'isolation électrique à l'enveloppe de la pile. L'endommagement de l'étiquette peut accroître le risque de court-circuit.

AVERTISSEMENT : Ne l'installez pas à l'envers, ne la rechargez pas, ne la jetez pas au feu et ne la mélangez pas avec d'autres types de piles car elle peut exploser ou couler et entraîner des blessures.
Remplacez toutes les piles en même temps.

SECTION 8 : CONTRÔLES DE L'EXPOSITION

Non applicable aux piles classées en tant qu'articles

En cas d'éclatement ou de fuite, utilisez une protection pour les mains. Évitez tout contact avec la peau et les yeux

SECTION 9 : INFORMATIONS SUR LE TRANSPORT

Non applicable aux piles classées en tant qu'articles

SECTION 10 : STABILITÉ ET RÉACTIVITÉ

STABLE OU INSTABLE : Stable

INCOMPATIBILITÉ (MATÉRIAUX À ÉVITER) : Non applicable aux articles.

PRODUITS DE DÉCOMPOSITION DANGEREUX : Non applicable aux articles.

TEMPÉRATURE DE DÉCOMPOSITION (0 °F) : Non applicable aux articles.

POLYMÉRISATION DANGEREUSE : Ne se produira pas

CONDITIONS À ÉVITER : Évitez les courts-circuits électriques, les perforations et les déformations

©2022 Energizer

SECTION 11 : INFORMATIONS TOXICOLOGIQUES

MATÉRIAU OU INGRÉDIENT	PEL (OSHA)	TLV (ACGIH)	%/masse
Graphite (Nº CAS 7782-42-5)	15 mg/m^3 TWA (poussière totale) 5 mg/m^3 TWA (fraction respirable)	2 mg/m^3 TWA (fraction respirable)	2-6
Dioxyde de manganèse (Nº CAS 1313-13-9)	Plafond de 5 mg/m^3 (sous forme de Mn)	0,2 mg/m^3 TWA (sous forme de Mn)	30-45
Hydroxyde de potassium (Nº CAS 1310-58-3)	Aucun établi	Plafond de 2 mg/m^3	4-8
Zinc (Nº CAS 7440-66-6)	15 mg/m^3 TWA PNOR* (poussière totale) 5 mg/m^3 TWA PNOR* (fraction respirable)	10 mg/m^3 TWA PNOC** (particules inhalables) 3 mg/m^3 TWA PNOC** (particules respirables)	12-25
Composants inoffensifs Acier fer nº CAS 65997-19-5 Eau, papier, plastique et autre	Aucun établi Aucun établi	Aucun établi Aucun établi	18-22 Balance

SECTION 12 : INFORMATIONS ÉCOLOGIQUES

Éliminez correctement la pile une fois déchargée. Utilisez un point de recyclage mis à votre disposition. Les personnes chargées de la collecte des piles doivent respecter les réglementations nationales et fédérales.

Les piles endommagées partiellement déchargées peuvent surchauffer et provoquer des incendies en présence d'autres matériaux combustibles.

SECTION 13 : INFORMATIONS CONCERNANT L'ÉLIMINATION

Jetez la pile conformément à toutes les réglementations fédérales, nationales et locales applicables. Les techniques d'élimination appropriées incluent l'incinération et l'enfouissement.

©2022 Energizer

SECTION 14 : INFORMATIONS SUR LE TRANSPORT

En général, toutes les piles dans toutes les formes de transports (terrestres, aériens ou maritimes) doivent être emballées d'une manière sûre et responsable. Les exigences réglementaires des agences de réglementation stipulent que les piles doivent être emballées de façon à prévenir les courts-circuits et dans un « matériau extérieur résistant » empêchant un éventuel déversement du contenu. Tous les emballages créés pour les piles alcalines Energizer ont été conçus en conformité avec ces exigences réglementaires.

Les piles alcalines (parfois appelés « piles sèches ») ne sont pas considérées comme des marchandises dangereuses selon l'Accord européen relatif au transport international des marchandises dangereuses par route (ADR), le Code maritime international des marchandises dangereuses (IMDG), les Règlements des Nations unies concernant les matières dangereuses, les Règlements sur les marchandises dangereuses de l'Association du transport aérien international (IATA), les instructions techniques de l'Organisation de l'aviation civile internationale (OACI) et les Règlements des États-Unis sur les matières dangereuses (49 CFR). Ces piles ne sont pas soumises aux réglementations sur les marchandises dangereuses, à condition qu'elles respectent les exigences des dispositions particulières suivantes :

Organisme réglementaire	Dispositions particulières
ADR	Non réglementé
IMDG	Non réglementé
UN	Non réglementé
US DOT	49 CFR 172.102, disposition 130
IATA	A123
OACI	Non réglementé

Toutes les piles alcalines Energizer sont conditionnées de manière à éviter les courts-circuits ou le dégagement de quantités dangereuses de chaleur et respectent les dispositions particulières mentionnées ci-dessus. En outre, les règlements de l'IATA relatifs aux marchandises dangereuses et les instructions techniques de l'OACI requièrent la mention « non restreint » et le numéro de disposition particulière A123 sur la lettre de transport aérien si celle-ci est émise.

Pour obtenir des renseignements en cas d'urgence, appelez ChemTel au 1 800 526 4727 (Amérique du Nord) ou au 1 314 985 1511 (international).

SECTION 15 : INFORMATIONS RÉGLEMENTAIRES

Normes applicables de l'industrie des piles

Normes d'Amérique du Nord	ANSI C18.3M Part 1	ANSI C18.3 M Part 2	ANSI C18.4
Normes internationales	IEC 60086-1	IEC 60086-2	IEC 60086-4

15.1 Pile

1. **SARA/TITLE III** : en tant qu'article, cette pile et son contenu ne sont pas sujets aux exigences de l'Emergency Planning and Community Right-To-Know Act.
2. **USA EPA Mercury Containing and Rechargeable Battery Management Act de 1996 :** pas de mercure ajouté
3. **Directive 2013/56/UE modifiant la directive européenne 2006/66/CE relative aux piles :** les piles Energizer sont conformes à tous les aspects de la directive

©2022 Energizer

15.2 Généralités

1. **CPSIA 2008 :** exempt
2. **US CPSC FHSA (16 CFR 1500) :** non applicable, car les piles sont définies en tant qu'articles
3. **USA EPA TSCA (40 CFR 707.20) :** non applicable, car les piles sont définies en tant qu'articles
4. **USA EPA RCRA (40 CFR 261) :** Considérées comme des déchets non dangereux conformément aux tests d'inflammabilité, de corrosion, réactifs ou de toxicité
5. **California Prop 65 :** aucune mise en garde n'est requise
6. **Étiquetage DTSC Perchlorate :** aucune mise en garde n'est requise
7. **SVHC selon le règlement REACH de l'UE :** aucune substance extrêmement préoccupante répertoriée dans le règlement REACH n'est présente à plus de 0,1 % masse/masse.

15.3 Définitions d'article

1. **Section 1910.1200(c) de la norme sur la communication des dangers de l'OSHA**

SECTION 16 : AUTRES INFORMATIONS

Energizer a préparé ces fiches d'informations relatives aux articles (protégées par le droit d'auteur) afin de fournir des informations sur les différents systèmes de piles Eveready/Energizer/Rayovac. Les piles sont des articles tels que définis par le SGH et exemptés des critères de classification du SGH (section 1.3.2.1.1 du SGH). Les informations et recommandations énoncées ici sont données de bonne foi, à titre indicatif uniquement et sont jugées exactes à la date de leur préparation. Toutefois, ENERGIZER BRANDS, LLC NE DONNE AUCUNE GARANTIE, EXPLICITE OU IMPLICITE, QUANT À CES INFORMATIONS ET DÉCLINE TOUTE RESPONSABILITÉ LIÉE À LEUR CONSULTATION.

16.1 GLOSSAIRE DES ACRONYMES

1. ANSI : American National Standards Institute (Institut de normalisation américain)
2. CPSC : Consumer Product Safety Commission (Commission de sécurité des produits de grande consommation)
3. CPSIA : Consumer Product Safety Improvement Act (Loi sur l'amélioration de la sécurité des produits de consommation)
4. DTSC : Department of Toxic Substances Control (Ministère du contrôle des substances toxiques)
5. EPA : Environmental Protection Agency (Agence américaine de protection de l'environnement)
6. FHSA : Federal Hazardous Substances Act (Loi fédérale sur les substances dangereuses)
7. SGH : Système général harmonisé de communication des dangers
8. IEC : International Electrotechnical Commission (Commission électrotechnique internationale)
9. OSHA : Occupational Safety and Health Administration (Administration sur la sécurité du travail et de la santé humaine)
10. RCRA : Resource Conservation and Recovery Act (Loi sur la conservation et la remise en état des ressources)
11. FDS : Fiche de données de sécurité
12. SVHC : Substances of Very high Concern (Substances extrêmement préoccupantes)
13. TSCA : Toxic Substances Control Act (Loi relative au contrôle des substances toxiques)

©2022 Energizer