

Safety Data Sheet

DISPOSABLE PENLIGHTS

Section 1. Identification

Product Identifier DISPOSABLE PENLIGHTS
Synonyms MDS131040; MSD_SDS0293

Manufacturer Stock MDS131040

Numbers

Recommended use Supplying power for electronic products (e.g. electric torches, wireless mousse,

radios, remote controllers, etc.)

Uses advised against Do NOT use it in an application wich may contaminate food or do harm to human

health.

Manufacturer Contact

Address Medline Industries, Inc.
One Medline Place

Mundelein, IL, 60060

USA

Phone Emergency Phone Fax

(800) 633-5463 (800) 424-9300 (847) 643-4436

CHEMTREC

Website

www.Medline.com

Section 2. Hazards Identification

Classification No OSHA Hazard Classifications Applicable - Category N.A.

Signal Word Pictogram

Hazard Statements No OSHA Hazard Classifications Applicable

Precautionary Statements

Response N/A
Prevention N/A
Storage N/A
Disposal N/A

Ingredients of unknown 0%

Hazards not Otherwise Classified

No Data Available

Note:

This product is generally not hazardous under normal conditions. But like any sealed container, battery may rupture when exposed to excessive heat and this could result in the release of flammable and irritating materials which may cause irritation to respiratory tract, skin and eyes.

Section 3. Ingredients

CAS	Ingredient Name	Weight %
12125-02-9	Ammonium chloride ((NH4)CI)	1.12 %
7732-18-5	Water	15.6 %
9002-86-2	Ethene, chloro-, homopolymer	2.65 %
1313-13-9	Manganese oxide (MnO2)	24.8 %
7440-66-6	Zinc	32.6 %
1333-86-4	Acetylene black	5.4 %
7646-85-7	Zinc chloride (ZnCl2)	5.85 %
1333-86-4	Carbon black	6.7 %

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-Aid Measures

Persons using this product should consult a physician or other medical professional if an accident involving this product results in injury. Specific first-aid measures are

as follows (for contact with leakage from rupture):

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. Immediately call a POISON CENTER or

doctor/physician.

Skin Contact: Remove/Take off immediately all contaminated clothing. Rinse skin with

water/shower. If irritation persists, get medical attention.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Inhalation:

Immediately call a POISON CENTER or doctor/physician if you feel unwell.

Ingestion Rinse mouth. Do not induce vomiting without professional instruction. Get medical

attention immediately if discomfort occurs.

Acute Effect and Delayed

Effect:

Acute Effect:

No acute effect under normal conditions. If contact with electrolyte, it can cause

irritation to skin and eyes.

Delayed Effect:

Not found.

Personal Protective

Equipment:

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

necessary.

Section 5. Fire Fighting Measures

Suitable Extinguishing

Media

Fire foam, carbon dioxide or dry chemical powder.

Unsuitable Extinguishing

Media

Do not use water as this product contains zinc which may release flammable gas

when contacting with water.

Special Fire Fighting

Procedures:

Structural firefighters must wear self-contained breathing apparatus and full

protective equipment.

Unusual Fire and Explosive

Hazards:

If involved in a fire, these products may ignite or decompose. Products of thermal decomposition may include hazardous and irritating gases (e.g. carbon oxides,

hydrogen chloride).

Special Fire Fighting

Method:

For initial fire, use dry powder, carbon dioxide, etc.

For large fire, it is effective to use fire foam, etc. to shut off air supply. Firefighters must wear self-contained breathing apparatus and full protective equipment (e.g. fire-retardant clothing). Deny unnecessary entry to the place around

fire. Remove containers from fire area if it can be done without risk. Cool

surrounding facilities, etc. with water spray. Extinguish fire from upwind, and the fire extinguishing method should be appropriate to the situation in the surroundings.

Section 6. Accidental Release Measures

Personal Precautions: Use proper personal protective equipment as indicated in Section 8.

Measures for Cleaning/Collection: If this battery ruptures, do not touch the battery directly. Wear protective gloves and sweep up leakage carefully. Label the waste containers and dispose it in a proper

Environmental Precautions:

Keep collected waste out of municipal sewers and open bodies of water. Comply

with local and national laws and regulations.

Additional Information:

As for safe handling and storage, see Section 7. As for personal protection, see

Section 8. As for waste disposal see Section 13.

Section 7. Handling and Storage

The regulations relating to storage remises apply to workshop where the product is

handled:

Handling Do not breathe vapors or fumes that may be evolved during processing. Do not

disassemble or burn batteries. Do not squeeze or pierce batteries. Do not put batteries into water. Workers must wear proper protective equipment and must

operate strictly according to relative rules.

Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Storage: Requirements to be met by storerooms and receptacles:

Do not store near flame or incompatible materials. Keep battery terminals insulated when in storage or transportation. The temperatures in the storeroom must be

controlled in a proper range. Avoid long-time direct contact of sunlight.

Information about storage in one common storage facility:

Not required.

Further information about

None.

Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits

Ingredient Name	ACGIH TLV	OSHA PEL	STEL
Ammonium chloride ((NH4)CI)	N/A	N/A	N/A
Water	N/A	N/A	N/A
Ethene, chloro-, homopolymer	N/A	N/A	N/A
Manganese oxide (MnO2)	N/A	N/A	N/A
Zinc	N/A	N/A	N/A
Carbon black	N/A	N/A	N/A
Zinc chloride (ZnCl2)	N/A	N/A	N/A
Carbon black	N/A	N/A	N/A

Personal Protective Equipment

N/A

Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate vapour or fume, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protective Equipment: Protection of Eyes:

No special requirements under normal conditions. Wear safety glasses when working in a dustry condition.

Protection of Hands:

Recommend wearing protective gloves for industrial hygienic purpose.

Respiratory Protection:

No special requirements under normal conditions. Wear appropriate respirators when vapour or fume is generated from processing.

Protection of Body:

Recommend wearing working clothing made of anti-corrosion materials.

General Protective and Hygienic Measures:

Wash hands before breaks and at the end of work. Do not eat, drink, or smoke when using this product. Prevent vapour or fume from processing entering eyes.

Section 9. Physical and Chemical Properties

Physical State	Solid
Color	Various
	colours
Odor	Odourless
Odor Threshold	No data
	available.
Solubility	No data
•	available.
Partition coefficient Water/n-octanol	No data
	available.
VOC%	N/A
Viscosity	No data
	available.
Specific Gravity	1
Density lbs/Gal	 N/A
Pounds per Cubic Foot	N/A
Flash Point	No data
FIASH FOILE	available.
FP Method	No data
FP Method	available.
Ph	No data
PII	available.
Melting Point	No data
Meiting Point	available.
Dailing Daint	No data
Boiling Point	available.
Poiling Dongs	No data
Boiling Range	available.
LEL	
	N/A
UEL	N/A
Evaporation Rate	No data
	available.
Flammability	This product
	is not
	classified as a flammable solid
December High Tagger and the	
Decomposition Temperature	No data
Auto institut Transcott or	available.
Auto-ignition Temperature	No data
Marana Danasa an	available.
Vapor Pressure	No data
	available.
Vapor Density	No data
	available.

Section 10. Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Possibility of Hazardous

Reactions:

The electrolyte may react violently with strong oxidizing agents, strong acids, strong

bases, reducers, and halogens.

Hazardous Decomposition

or Byproducts:

Products of thermal decomposition can include produce hazardous and irritating gases and fumes (e.g. carbon oxides, hydrogen chloride, fumes of zinc and

manganese).

Incompatibility (Materials to

Avoid):

Strong oxidizing agents. Strong acids

Incompatibility (Materials to Strong bases.

avoid):

Incompatibility (Materials to

Avoid)

Reducers. Halogens.

Conditions to avoid: Avoid exposure or contact to extreme temperatures and combustible materials.

Section 11. Toxicological Information

Product Toxicity Data: The toxicity data of this product has not been determined, but to our best knowledge, this product is minimally toxic. Shown below is the toxicity data of some ingredients.

> Component Zinc CAS-No. 7440-66-6 LD50/LC50 (Median lethal dose) >2,000 mg/kg (Oral, rat)

>5,410 mg/kg (Inhalation, dust)

Component

Manganese dioxide CAS-No. 1313-13-9 LD50/LC50 (Median lethal dose)

11,710 mg/kg (Oral, rat)

Component

Carbon Stick CAS-No. 1333-86-4 LD50/LC50 (Median lethal dose) 15,400 mg/kg (Oral, rat)

Component

Zinc Chloride CAS-No. 7646-85-7 LD50/LC50 (Median lethal dose)

1,150mg/kg (Oral, rat)

173 mg/kg (Dermal, guinea pig)

Component

Ammonium chloride CAS-No. 12125-02-9

LD50/LC50 (Median lethal dose)

1,650 mg/kg (Oral, rat)

Serious eye damage/Eye

irritation:

No relevant classification.

Skin corrosion/irritation: No relevant classification. Respiratory/Skin Sensitizer: No relevant classification. Germ cell Mutagenicity: No relevant classification. Carcinogenicity: No relevant classification. Reproductive Toxicity: No relevant classification. Specific Target Organ No relevant classification.

Toxicity - Single exposure:

Specific Target Organ Toxicity - Repeated

exposure:

No relevant classification.

Aspiration Hazard: No classification for this product. Effects on or Via Lactation:

No classification for this product.

Section 12. Ecological Information

Ecotoxicity: No data available for the whole product. The data shown below is of the main

ingredient.

Ammonium Chloride CAS-No. 12125-02-9

96-hour LC50=0.696mg/L of fishes (Rainbow trout) (ECETOC TR91,2003).

Zinc Chloride CAS-No. 7646-85-7

48-hour EC50=0.1mg/L of Crustacea (Daphnia magna) (CERI Hazard Data, 2002).

Persistence and degradability:

Mobility in soil:

No data available.

Bioaccumulative potential: No data available.

As for the sealed batteries, it can hardly move in soil.

Section 13. Disposal

Do not throw it into any open bodies of water and sewage system. Do not dispose together with household wastes. Dispose of waste in accordance with applicable local, regional and international regulations and standards. When disposing, consult to a certified waste trader or local offices if they deal with the waste. Paste a label on the container indicating the possible hazards of waste.

Section 14. Transport Information

UN Number N/A

UN Proper Shipping Name Not Regulated Not Regulated Packing Group Not Regulated Not Regulated

It is not listed as dangerous goods by 55th edition-IATA DGR of International Air Transport Association (IATA), the International Civil Aviation Organization (ICAO) and U.S. Department of Transportation (DOT) regulations, 49 CFR. These batteries are not subject to the dangerous goods regulations provided they meet the requirements contained in Special Provision A123 in the ICAO Technical Instructions and IATA Dangerous Goods Regulations and Special Provision 130 of the DOT.

These regulations require these batteries to be packed in such a way to prevent short circuits or generation of a dangerous quantity of heat.

In addition, the ICAO and IATA regulations requiere the words "Not Restricted" and "Special Provision A123" to be provided on the air waybill.

International Maritime Organization (IMO) does not regulate these batteries.

Section 15. Regulatory Information

SARA 311/312: N.A. SARA 302: N.A. SARA 313: Zinc

Zinc chloride

TSCA: N.A.

CERCLA Hazardous

Substance List:

AMMONIUM CHLORIDE

Zinc.

Zinc chloride

Clean Air Act (CAA) Section N.A.

112, 112 (r):

New Jersey Right to Know AMMONIUM CHLORIDE

Components: ZINC CHLORIDE

CARBON BLACK

Massachusetts Right to

Know Components:

ETHENE, CHLORO-, HOMOPOLYMER

AMMONIUM CHLORIDE

ZINC CHLORIDE

Pennsylvania Right to Know AMMONIUM CHLORIDE

Components:

ZINC CHLORIDE

CARBON BLACK

Rhode Island Right to Know Zinc chloride fume

Components:

CARBON BLACK

Section 16. Other Information

Revision Date 12/8/2016 Legend N.A. - Not Applicable

N.E. - Not Established N.D. - Not Determined

HMIS (U.S.A.): Health

Hazard

HMIS (U.S.A.): Flammability O HMIS (U.S.A.): Reactivity 0 **National Fire Protection** 0 Association (U.S.A): Health

Hazard

National Fire Protection Association (U.S.A): **Flammability**

0

National Fire Protection Association (U.S.A): **Instability Hazard**

0

Additional Information

The information contained herein is furnished without warranty or legal responsibility of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of

these materials and the safety and health of employees