

# 10% PEPPER EXTREAM STREAM (AEROSOL) Safety Data Sheet

US-SDS according to the federal final rule of hazard communication revised on 2012 (HazCom 2012) SDS ID: 2015015

Issue date: 2/24/2010 Revision date: 7/24/2023 Supersedes: 9/6/2016 Version: 4.0

#### **SECTION 1: Identification**

#### 1.1. Identification

Product form Mixture

Product name : 10% PEPPER EXTREAM STREAM (AEROSOL)

3045, 3046, 4025, 4045, 4046, 80223, 80328, 80332, 80347, 80349, 80353, 80403, 80405, Product code

80406, 80421, 80422, 80450, 80451, 80452, 80528, 80557, 80585, 80586, 80725, 80726, 80727, 80728, 80729, 80740, 80744, 80745, 80746, 80748, 80749, 80750, 80760, 80761, 80765, 80766, 80768, 80769, 80785, 80787,80822 9045, 81023, 81024, 60000,60001, 80777,

80826,80828, 60016, 60017,60018

Other means of identification : OC Personal Protection Spray

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Personal Protection Spray

#### 1.3. Supplier

MACE SECURITY INTERNATIONAL INC. 4400 Carnegie Ave. Clevelan, OH 44103 T (877) 585-6223

#### 1.4. Emergency telephone number

**Emergency number** : CHEMTREC (800) 424-9300, Outside USA: +1 703-527 3888

#### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

#### **GHS US classification**

Gases under pressure Compressed gas Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2A

Contains gas under pressure; may explode if heated Causes skin irritation

Causes serious eye irritation

#### 2.2. GHS Label elements, including precautionary statements

#### **GHS US labeling**

Hazard pictograms (GHS US)





Signal word (GHS US) Warning

Hazard statements (GHS US) Contains gas under pressure; may explode if heated

> Causes skin irritation Causes serious eye irritation

Precautionary statements (GHS US) : Wash hands, forearms and face thoroughly after handling.

Wear eye protection, face protection, protective gloves.

If on skin: Wash with plenty of soap and water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Protect from sunlight. Store in a well-ventilated place.

#### Safety Data Sheet

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

#### 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

#### 3.2. Mixtures

Name	Product identifier	%
Dipropylene glycol methyl ether	CAS-No.: 34590-94-8	40 – 60
Capsicum oleoresin	CAS-No.: 8023-77-6	10

The specific chemical\ component identities and/or the exact component percentages of this material may be withheld as trade secrets.

This information is made available to health professionals, employees, and designated representatives in accordance with the applicable provisions of 29 CFR 1910.1200 (I)(1). Trace ingredients (if any) are present in < 1% concentration, (< 0.1% for potential carcinogens, mutagen, and reproductive toxicant, respiratory tract and skin sensitizers in addition to oral/ inhalation acute toxicant in category 1 and 2). None of the trace ingredients contribute significant additional hazards at the concentrations that may be present in this product. All pertinent hazard information has been provided in this document, per the requirements of the Federal Occupational Safety and Health Administration Standard (29 CFR 1910.1200), U.S. State equivalents.

#### **SECTION 4: First-aid measures**

#### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Cough. Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. If not breathing, give artificial respiration. Call a POISON CENTER or

doctor if you feel unwell.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get

medical advice/attention.

First-aid measures after eye contact : 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.

First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell. Rinse mouth thoroughly with water. If the person is fully conscious, make him/her drink plenty of water. Never give an unconscious person

anything to drink. If swallowed, contact a poison control center or physician immediately.

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

Symptoms/effects after inhalation : Shortness of breath. May cause respiratory irritation.

Symptoms/effects after skin contact : Causes skin irritation.
Symptoms/effects after eye contact : Causes eye irritation.

Symptoms/effects after ingestion : May cause irritation to the digestive tract.

#### 4.3. Immediate medical attention and special treatment, if necessary

No additional information available. Treat symptomatically.

#### **SECTION 5: Fire-fighting measures**

#### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : None known.

7/24/2023 (Revision date) US - en 2/9

#### Safety Data Sheet

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

#### 5.2. Specific hazards arising from the chemical

Fire hazard : Non flammable. Gases under pressure Compressed gas. Explosion hazard : Contains gas under pressure; may explode if heated.

Hazardous decomposition products in case of fire : Toxic fumes may be released.

#### 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.

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : No open flames. No smoking. Isolate from fire, if possible, without unnecessary risk.

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

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".

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.

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

Additional hazards when processed : Pressurized container: may burst if heated. Do not pierce or burn, even after use.

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Wash hands and other exposed areas with mild soap and water before

eating, drinking or smoking and when leaving work. Do not spray on an open flame or other ignition source. Avoid breathing dust/fume/gas/mist/vapors/spray.

ignition source. Avoid breathing dustrume/gas/mistvapois/spray.

Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

Always wash hands after handling the product.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding

50°C/122°F. Keep cool.

#### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

#### 10% PEPPER EXTREAM STREAM (AEROSOL)

No additional information available

7/24/2023 (Revision date) US - en 3/9

#### Safety Data Sheet

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

Dipropylene glycol methyl ether (34590-94-8)		
USA - ACGIH - Occupational Exposure Limits		
Local name	Dipropylene glycol methyl ether (DPGME)	
ACGIH OEL TWA [ppm]	50 ppm	
Remark (ACGIH)	TLV® Basis: Liver & CNS eff	
Regulatory reference	ACGIH 2023	
USA - OSHA - Occupational Exposure Limits		
Local name	Dipropylene glycol methyl ether	
OSHA PEL TWA [1]	600 mg/m³	
OSHA PEL TWA [2]	100 ppm	
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1	
Capsicum oleoresin (8023-77-6)		
No additional information available		

#### 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.

Environmental exposure controls : Avoid release to the environment.

#### 8.3. Individual protection measures/Personal protective equipment

Hand protection:
Protective gloves
Eye protection:
Safety glasses
Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment

#### Personal protective equipment symbol(s):





#### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Thin liquid. Aerosol.
Color : light ambery brown
Odor : Irritating/pungent odour
Odor threshold : No data available

pH : 4.5 – 6

Melting point : Not applicable
Freezing point : No data available
Boiling point : 212 – 374 °F
Flash point : 185 °F Closed cup

#### Safety Data Sheet

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

Relative evaporation rate (butyl acetate=1) : No data available Flammability : Not applicable. Vapor pressure : No data available Relative vapor density at 20°C : No data available

Relative density : 0.97 Relative density, liquid (water=1)

Solubility Water: Soluble in water No data available Partition coefficient n-octanol/water (Log Pow) No data available Auto-ignition temperature Decomposition temperature No data available No data available Viscosity, kinematic Viscosity, dynamic : No data available : No data available **Explosion limits** Explosive properties : No data available

9.2. Other information

Oxidizing properties

Heat of combustion : > 11 kJ/g

#### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport. On combustion or on thermal decomposition (pyrolysis) releases: Carbon oxides (CO, CO2). methane. ETHANE.

: No data available

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

Protected from sources of heat. Protect from sunlight. Contains gas under pressure; may explode if heated.

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

#### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Dipropylene glycol methyl ether (34590-94-8)	
LD50 oral rat	> 5000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rat	> 19020 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LD50 dermal rabbit	9510 mg/kg body weight Animal: rabbit, Animal sex: male, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
ATE US (dermal)	9510 mg/kg body weight

#### Safety Data Sheet

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

Capsicum oleoresin (8023-77-6)	
LD50 oral rat	3000 mg/kg Source: National Library of Medicine
LD50 dermal rat	2500 mg/kg Source: National Library of Medicine
ATE US (oral)	3000 mg/kg body weight
ATE US (dermal)	2500 mg/kg body weight
ATE US (dust, mist)	10 mg/l/4h
Skin corrosion/irritation	: Causes skin irritation. pH: 4.5 – 6
Serious eye damage/irritation	: Causes serious eye irritation. pH: 4.5 – 6

Respiratory or skin sensitization	:	Not classified
Germ cell mutagenicity	:	Not classified
Carcinogenicity	:	Not classified
Reproductive toxicity	:	Not classified
STOT-single exposure	:	Not classified
STOT-repeated exposure	:	Not classified

NOAEL (oral,rat,90 days)  1000 mg/kg body weight Animal: rat, Guideline: other:	

Aspiration hazard : Not classified Viscosity, kinematic : No data available

Symptoms/effects after inhalation : Shortness of breath. May cause respiratory irritation.

Symptoms/effects after skin contact : Causes skin irritation. Symptoms/effects after eye contact : Causes eye irritation.

Symptoms/effects after ingestion : May cause irritation to the digestive tract.

#### **SECTION 12: Ecological information**

#### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

Dipropylene glycol methyl ether (34590-94-8)		
LC50 - Fish [1]	> 1000 mg/l Test organisms (species): Poecilia reticulata	
EC50 - Other aquatic organisms [1]	1930 mg/l Test organisms (species): other aquatic crustacea:	
LOEC (chronic)	0.5 mg/l Test organisms (species): Daphnia magna Duration: '22 d'	
NOEC (chronic)	≥ 0.5 mg/l Test organisms (species): Daphnia magna Duration: '22 d'	

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

No additional information available

#### Safety Data Sheet

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

#### **SECTION 13: Disposal considerations**

#### 13.1. Disposal methods

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

#### **SECTION 14: Transport information**

In accordance with DOT / IMDG / IATA

#### 14.1. UN number

DOT NA No : UN1950 UN-No. (IMDG) : 1950 UN-No. (IATA) : 1950

#### 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Aerosols
Proper Shipping Name (IMDG) : AEROSOLS

Proper Shipping Name (IATA) : Aerosols, non-flammable

#### 14.3. Transport hazard class(es)

#### DOT

Transport hazard class(es) (DOT) : 2.2 Hazard labels (DOT) : 2.2



#### **IMDG**

Transport hazard class(es) (IMDG) : 2.2 Hazard labels (IMDG) : 2.2



#### ΙΔΤΔ

Transport hazard class(es) (IATA) : 2.2 Hazard labels (IATA) : 2.2



#### 14.4. Packing group

Packing group (DOT) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable

#### 14.5. Environmental hazards

Other information : No supplementary information available.

#### 14.6. Special precautions for user

DOT

UN-No.(DOT) : UN1950

#### Safety Data Sheet

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

DOT Packaging Exceptions (49 CFR 173.xxx) : 306 DOT Quantity Limitations Passenger aircraft/rail (49 : 75 kg

CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49

CFR 175.75)

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel.

: 150 kg

DOT Vessel Stowage Other : 25 - Protected from sources of heat,87 - Stow "separated from" Class 1 (explosives) except

Division 14,126 - Segregation same as for Class 9, miscellaneous hazardous materials

**IMDG** 

Special provision (IMDG) : 63, 190, 277, 327, 344, 381, 959

Limited quantities (IMDG) : SP277

Excepted quantities (IMDG) : E0

Packing instructions (IMDG) : P207, LP200

Packing provisions (IMDG) : PP87, L2

EmS-No. (Fire) : F-D - FIRE SCHEDULE Delta - FLAMMABLE GASES

EmS-No. (Spillage) : S-U - SPILLAGE SCHEDULE Uniform - GASES (FLAMMABLE, TOXIC OR CORROSIVE)

Stowage category (IMDG) : None

IATA

PCA Excepted quantities (IATA) : E0
PCA Limited quantities (IATA) : Y203
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 203
PCA max net quantity (IATA) : 75kg
CAO packing instructions (IATA) : 203
CAO max net quantity (IATA) : 150kg

Special provision (IATA) : A98, A145, A167, A802

ERG code (IATA) : 2L

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

#### **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

#### 15.2. International regulations

No additional information available

#### 15.3. US State regulations

No additional information available

#### **SECTION 16: Other information**

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

Revision date : 07/24/2023

ICSDS\_SDS\_USA

7/24/2023 (Revision date) US - en 8/9

### Safety Data Sheet

US-SDS according to the federal final rule of hazard communication revised on 2012 (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.



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

SDS ID: 2015019

Issue date: 2/24/2010 Revision date: 7/24/2023 Supersedes: 9/6/2016 Version: 3.0

#### **SECTION 1: Identification**

#### 1.1. Identification

Product form Mixture

Product name : MUZZLE DOG REPELLENT (AEROSOL)

Product code : 80146, 80536 Synonyms : 2015019

Other means of identification : OC Personal Protection Spray

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Personal Protection Spray

#### 1.3. Supplier

MACE SECURITY INTERNATIONAL INC.

4400 Carnegie Ave, Clevelan, OH 44103 T (877) 585-6223

#### 1.4. Emergency telephone number

Emergency number : CHEMTREC (800) 424-9300, Outside USA: +1 703-527 3888

#### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

#### **GHS US classification**

Gases under pressure Compressed gas Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2A

Aspiration hazard Category 1

Contains gas under pressure; may explode if heated

Causes skin irritation Causes serious eye irritation

May be fatal if swallowed and enters airways

#### 2.2. GHS Label elements, including precautionary statements

#### GHS US labeling

Hazard pictograms (GHS US)







Signal word (GHS US) : Danger

Hazard statements (GHS US) Contains gas under pressure; may explode if heated

May be fatal if swallowed and enters airways

Causes skin irritation Causes serious eye irritation

Precautionary statements (GHS US) Wash hands, forearms and face thoroughly after handling.

> Wear eye protection, face protection, protective gloves. If swallowed: Immediately call a doctor, a POISON CENTER.

If on skin: Wash with plenty of soap and water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

Do NOT induce vomiting.

If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

Store locked up.

#### Safety Data Sheet

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

Protect from sunlight. Store in a well-ventilated place.

Dispose of contents/container to an approved waste disposal plant.

#### 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

#### 3.2. Mixtures

Name	Product identifier	%
White mineral oil (petroleum)	CAS-No.: 8042-47-5	85 – 90
Capsicum oleoresin	CAS-No.: 8023-77-6	10 – 15

The specific chemical\ component identities and/or the exact component percentages of this material may be withheld as trade secrets.

This information is made available to health professionals, employees, and designated representatives in accordance with the applicable provisions of 29 CFR 1910.1200 (I)(1). Trace ingredients (if any) are present in < 1% concentration, (< 0.1% for potential carcinogens, mutagen, and reproductive toxicant, respiratory tract and skin sensitizers in addition to oral/ inhalation acute toxicant in category 1 and 2). None of the trace ingredients contribute significant additional hazards at the concentrations that may be present in this product. All pertinent hazard information has been provided in this document, per the requirements of the Federal Occupational Safety and Health Administration Standard (29 CFR 1910.1200), U.S. State equivalents.

#### **SECTION 4: First-aid measures**

#### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Call a physician immediately.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Cough. Give oxygen or artificial respiration. Call a POISON CENTER or

respiration if necessary. If not breathing, give artificial respiration. Call a POISON CENTER or doctor if you feel unwell.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

First-aid measures after ingestion : Rinse mouth thoroughly with water. If the person is fully conscious, make him/her drink plenty of

water. Never give an unconscious person anything to drink. If swallowed, contact a poison control center or physician immediately. Do not induce vomiting. Call a physician immediately.

do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

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

Symptoms/effects after inhalation : Shortness of breath. May cause respiratory irritation. May be fatal if swallowed and enters

airways.

Symptoms/effects after skin contact : Causes skin irritation. Irritation. Symptoms/effects after eye contact : Causes eye irritation. Eye irritation.

Symptoms/effects after ingestion : May cause irritation to the digestive tract. Risk of lung edema.

#### 4.3. Immediate medical attention and special treatment, if necessary

No additional information available.

7/24/2023 (Revision date) US - en 2/8

#### Safety Data Sheet

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

#### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : None known.

#### 5.2. Specific hazards arising from the chemical

Fire hazard : Non flammable. Gases under pressure Compressed gas. Explosion hazard : Contains gas under pressure; may explode if heated.

Hazardous decomposition products in case of fire : Toxic fumes may be released.

#### 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.

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : No open flames. No smoking. Isolate from fire, if possible, without unnecessary risk.

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

#### 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".

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.

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

Additional hazards when processed : Pressurized container: may burst if heated. Do not pierce or burn, even after use.

Precautions for safe handling : Ensure good ventilation of the work station. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not spray on an

open flame or other ignition source. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid

contact with skin and eyes. Wear personal protective equipment.

Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

Always wash hands after handling the product.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Protect from

sunlight. Store in a well-ventilated place. Store locked up. Keep cool.

#### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

7/24/2023 (Revision date) US - en 3/8

#### Safety Data Sheet

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

#### **MUZZLE DOG REPELLENT (AEROSOL)**

No additional information available

#### Capsicum oleoresin (8023-77-6)

No additional information available

#### White mineral oil (petroleum) (8042-47-5)

No additional information available

#### 8.2. Appropriate engineering controls

Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity

of any potential exposure. Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

#### 8.3. Individual protection measures/Personal protective equipment

#### Hand protection:

Protective gloves

#### Eye protection:

Safety glasses

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Wear respiratory protection.

#### Personal protective equipment symbol(s):









#### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Thick liquid. Aerosol.

Color : light ambery brown

Odor : Irritating/pungent odour

Odor threshold : No data available

pH : No data available

Melting point : Not applicable

Freezing point : No data available

Boiling point : > 446 °F

Flash point : 248 °F Open cup
Relative evaporation rate (butyl acetate=1) : No data available
Flammability : Not applicable.
Vapor pressure : No data available
Relative vapor density at 20°C : No data available

Relative density : 0.97 Relative density, liquid (water=1)

Solubility : Water: Insoluble Partition coefficient n-octanol/water (Log Pow) : No data available

#### Safety Data Sheet

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

Auto-ignition temperature : No data available
Decomposition temperature : No data available

Viscosity, kinematic : < 20.5 mm²/s (estimated value)

Viscosity, dynamic : No data available
Explosion limits : No data available
Explosive properties : No data available
Oxidizing properties : No data available

#### 9.2. Other information

No additional information available

#### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

On combustion or on thermal decomposition (pyrolysis) releases: Carbon oxides (CO, CO2). methane. ETHANE.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

Protected from sources of heat. Protect from sunlight. Contains gas under pressure; may explode if heated.

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

#### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Capsicum oleoresin (8023-77-6)	
LD50 oral rat	3000 mg/kg Source: National Library of Medicine
LD50 dermal rat	2500 mg/kg Source: National Library of Medicine
ATE US (oral)	3000 mg/kg body weight
ATE US (dermal)	2500 mg/kg body weight
ATE US (dust, mist)	10 mg/l/4h

White mineral oil (petroleum) (8042-47-5)	
LD50 oral rat	> 5000 mg/kg Source: International Uniform ChemicaL Information Database
LD50 dermal rabbit	> 2000 mg/kg body weight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	> 5 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)

Skin corrosion/irritation : Causes skin irritation.
Serious eye damage/irritation : Causes serious eye irritation.

#### Safety Data Sheet

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

Respiratory or skin sensitization : Not classified Germ cell mutagenicity : Not classified Carcinogenicity Not classified Reproductive toxicity Not classified STOT-single exposure : Not classified STOT-repeated exposure Not classified

NOAEL (oral,rat,90 days) ≥ 1200 mg/kg body weight Animal: rat, Guideline: OECD Guideline 453 (Combined Chronic

Toxicity / Carcinogenicity Studies)

Aspiration hazard May be fatal if swallowed and enters airways.

Viscosity, kinematic < 20.5 mm<sup>2</sup>/s (estimated value)

Symptoms/effects after inhalation Shortness of breath. May cause respiratory irritation. May be fatal if swallowed and enters

airways.

: Causes skin irritation. Irritation. Symptoms/effects after skin contact Symptoms/effects after eye contact : Causes eye irritation. Eye irritation.

Symptoms/effects after ingestion : May cause irritation to the digestive tract. Risk of lung edema.

#### **SECTION 12: Ecological information**

#### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse

effects in the environment.

White mineral oil (petroleum) (8042-47-5)	
LC50 - Fish [1]	> 10000 mg/l Source: IUCLID

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

White mineral oil (petroleum) (8042-47-5)	
Partition coefficient n-octanol/water (Log Pow)	5.18 Source: Quantitative Structure Activity Relation

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

No additional information available

#### **SECTION 13: Disposal considerations**

#### 13.1. Disposal methods

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

#### **SECTION 14: Transport information**

In accordance with DOT / IMDG / IATA

#### 14.1. UN number

DOT NA No : UN1950 UN-No. (IMDG) : 1950 UN-No. (IATA) 1950

#### Safety Data Sheet

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

#### 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Aerosols
Proper Shipping Name (IMDG) : AEROSOLS

Proper Shipping Name (IATA) : Aerosols, non-flammable

#### 14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : 2.2 Hazard labels (DOT) : 2.2



**IMDG** 

Transport hazard class(es) (IMDG) : 2.2 Hazard labels (IMDG) : 2.2



IATA

Transport hazard class(es) (IATA) : 2.2 Hazard labels (IATA) : 2.2



#### 14.4. Packing group

Packing group (DOT) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable

#### 14.5. Environmental hazards

Other information : No supplementary information available.

#### 14.6. Special precautions for user

DOT

UN-No.(DOT) : UN1950
DOT Packaging Exceptions (49 CFR 173.xxx) : 306
DOT Quantity Limitations Passenger aircraft/rail (49 : 75 kg

CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 150 kg

CFR 175.75)

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel.

DOT Vessel Stowage Other : 25 - Protected from sources of heat,87 - Stow "separated from" Class 1 (explosives) except

Division 14,126 - Segregation same as for Class 9, miscellaneous hazardous materials

**IMDG** 

Special provision (IMDG) : 63, 190, 277, 327, 344, 381, 959

Limited quantities (IMDG) : SP277 Excepted quantities (IMDG) : E0

#### Safety Data Sheet

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

Packing instructions (IMDG) : P207, LP200
Packing provisions (IMDG) : PP87, L2

EmS-No. (Fire) : F-D - FIRE SCHEDULE Delta - FLAMMABLE GASES

EmS-No. (Spillage) : S-U - SPILLAGE SCHEDULE Uniform - GASES (FLAMMABLE, TOXIC OR CORROSIVE)

Stowage category (IMDG) : None

IATA

PCA Excepted quantities (IATA) : E0
PCA Limited quantities (IATA) : Y203
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 203
PCA max net quantity (IATA) : 75kg
CAO packing instructions (IATA) : 203
CAO max net quantity (IATA) : 150kg

Special provision (IATA) : A98, A145, A167, A802

ERG code (IATA) : 2L

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

#### **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

#### 15.2. International regulations

No additional information available

#### 15.3. US State regulations

No additional information available

#### **SECTION 16: Other information**

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

Revision date : 07/24/2023

ICSDS SDS USA

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.



# **MSDS** Report

	_	
Prepared For: 申请商:	Zhaoqing New Leader Battery Industry Co., Ltd. 肇庆新利达电池实业有限公司 New Leader Industry Building, Tenth Area Chuang Ye Road, Ding Hu New Town, Zhao Qing City, Guangdong Province, China 广东省肇庆市鼎湖新城第十区创业路新利达工业大厦	
Product Name: 产品名称:	EXTRA HEAVY DUTY CARBON ZINE DRY BATTERY 碳性锌锰干电池	
Model 型号:	R03P (AAA)	
Nominal Voltage: 标称电压:	1.5V	
Typical Capacity: 典型容量:	460mAh	
Weight 重量:	9.81g	
Dimension 尺寸:	Ф10.24mm×44.00mm (D×H)	
Prepared By: 编制单位:	NRCC (Shenzhen) Safety Technology Co., Ltd. 诺诚(深圳)安全科技有限公司 (Testing and Inspection Body affiliated to the National Registration Center for Chemicals, MEM) (应急管理部化学品登记中心旗下检测检验机构) Building A, No.2, Tengfeng 5th Road, Fuyong, Bao'an District Shenzhen 深圳市宝安区福永街道腾丰五路 2 号 A 栋	
Report No. 报告编号:	221205180156-29	

Written by 编写:

200

Issuing Date 签发日期:

2023.01.01

Approved by 审批:

数 38m]

Seal of NRCC safety 报告单位(盖章):



**Material Safety Data Sheet** 

# **Material Safety Data Sheet**

# 化学品安全技术说明书

# Section 1- Chemical Product & Company Identification

第一部分 化学品及企业标识

Product Name: EXTRA HEAVY DUTY CARBON ZINE DRY BATTERY

产品名称:碳性锌锰干电池

Manufacture: Zhaoqing New Leader Battery Industry Co., Ltd.

制造商:肇庆新利达电池实业有限公司

Address: New Leader Industry Building, Tenth Area Chuang Ye Road, Ding Hu New Town,

Zhao Qing City, Guangdong Province, China

地址:广东省肇庆市鼎湖新城第十区创业路新利达工业大厦

Contact Person 联系人: Jiang Dongtao

Tel 电话: 0758-7766802

Fax 传真: 0758-7761220

Emergency Tel 应急电话: 0758-7766802

E-mail 邮箱: hf@newleader.cn

Item Code 项目号: 221205180156-29

### Section 2- Hazards Identification

# 第二部分 危险性概述

Hazard	Not dangerous with normal use. Do not dismantle, open or shred the battery	
Description	ingredients contained within or their ingredients products could be harmful.	
危险性描述	正常使用没有危险,不能拆解、打开或分解电池,里面的材料或成分是有害的。	
Primary Route(s)	Inhalation, Ingestion, Skin contact and Eye contact.	
of Exposure	吸入、食入、皮肤接触、眼睛接触。	
接触途径		



**Potential Health** 

潜在健康影响

Effects

# EXTRA HEAVY DUTY CARBON ZINE DRY BATTERY 碳性锌锰干电池

**Material Safety Data Sheet** 

**Inhalation:** Vapors or mists from a ruptured battery may cause respiratory irritation.

吸入: 破裂的电池散发出来的气雾会引起呼吸道刺激。

**Ingestion:** The battery ingredients contained within or their ingredients products can cause serious chemical burns of mouth, esophagus, and gastrointestinal tract.

食入: 电池的组成成分或原料可以导致嘴, 食道和胃肠道的严重化学烧伤。

**Skin:** Skin contact with contents of an open battery can cause severe irritation or burns to the skin.

皮肤: 皮肤接触到电池的内部化学材料可能会导致严重的刺激或烧伤皮肤。

Eye: Eye contact with contents of an open battery can cause severe irritation or

burns to the eye.

眼睛: 眼睛接触到电池的内部化学材料可能会导致严重的刺激或烧伤眼睛。

# Section 3- Composition/Information on Ingredients

## 第三部分 成分/组成信息

Chemical Name 化学名称	Concentration or concentration ranges (%) 浓度或浓度范围(%)	CAS Number CAS 号(化学文摘索引登记号)
Manganese dioxide 二氧化锰	22	1313-13-9
Carbon 炭	8	1333-86-4
Zinc chloride 氯化锌	4	7646-85-7
Zinc 锌	28	7440-66-6
Iron 铁	20 FADER	7439-89-6
Water水	15 學庆	7732-18-5
Poly 尼龙 66	3 电池实业	32131-17-2

Note: CAS number is Chemical Abstract Service Registry Number.

注意: CAS 号是化学文摘服务注册号。

N/A=Not apply.

N/A = 不适用。

### Section 4- First Aid Measures

第四部分 急救措施

MSDS Report Number 报告编号:221205180156-29
Report Authentication Website 报告查询网址: www.nrccsafety.com

Page 3 of 12 第 3 页共 12 页 Tel: 86-755-27322216



**Material Safety Data Sheet** 

Inhalation 吸入	Remove source of contamination or move victim to fresh air. Obtain medica advice. 移除污染源或者将受害者移至新鲜空气处。寻求医生建议。
Ingestion 食入	Please rinse mouth thoroughly with water. Induce vomiting under the guidance of professional personage. Please seek medical treatment in time. 立即用清水漱口,在专业人士的指导下催吐,速就医。
Skin contact 皮肤接触	Remove contaminated clothes and rinse skin with plenty of water or shower for 15 minutes. Get medical aid. 脱下已污染衣服,用大量的水冲洗至少 15 分钟,速就医。
Eye contact 眼睛接触	Irrigate with flowing water for 15 minutes. If irritation persists, consult a physician 用流动水冲洗 15 分钟,如刺激持续发生,请求助于医生。

# Section 5- Fire Fighting Measures

# 第五部分 消防措施

Characteristics of Hazard 危险特性	Toxic fumes, gases or vapors may evolve on burning.  火灾时可释放有害浓烟、气体或者蒸汽。
Hazardous Combustion Products 燃烧产生的危险物品	Carbon monoxide, carbon dioxide and so on. 一氧化碳,二氧化碳等。
Fire-extinguishing Methods and Extinguishing Media 灭火方法及灭火剂	Please use dry powder fire extinguisher and other proper fire extinguishing media. 请使用干粉灭火器等合适的灭火充质。安立有限公司
Attention in Fire-extinguishing 灭火注意事项	The firemen should put on antigas masks and full fire-fighting suits. 消防人员须佩戴防毒面具、穿全身消防服。

# Section 6- Accidental Release Measures

第六部分 泄露应急处理



**Material Safety Data Sheet** 

Personal Prec	autions,
protective equipment	
and emergence	y
procedures	
个人预防措施、	防护装备
和应急程序	A-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1

Restrict access to area until completion of clean-up. Do not touch the spilled material. Wear adequate personal protective equipment as indicated in Section 8.

限制区域,直到完成清理工作。请勿触摸泄漏的材料。穿戴适当的个人防护设备,如第8部分所示。

# Environmental Precautions 环境保护措施

Prevent material from contaminating soil and from entering sewers or waterways.

防止物质污染土壤和进入下水道或水道。

# Methods and materials for Containment 方法和材料控制

Stop the leak if safe to do so. Contain the spilled liquid with dry sand or earth. Clean up spills immediately.

出于安全,阻止泄漏,可以用干砂或沙土来遏制液体泄露,立即清理泄漏。

### Methods and materials for cleaning up 清理的方法和材料

Absorb spilled material with an inert absorbent (dry sand or earth). Scoop contaminated absorbent into an acceptable waste container. Collect all contaminated absorbent and dispose of according to directions in Section 13. Scrub the area with detergent and water; collect all contaminated wash water for proper disposal.

用惰性吸收剂(干砂或沙土)吸收溢出的材料。污染物转移到可吸收废物的容器。收集所有受污染的吸收剂和根据第13部分的指令处置。用洗涤剂和水清洁污染区域,收集所有受污染的洗涤水进行适当处置。

# Section 7- Handling and Storage

# 第七部分 操作处置与储存

### Handling 操作

Don't handing the batteries in manner that allows terminals to short circuit. Do not open, disassemble, crush or burn battery.

不要以让接头短路的方式对电池进行操作。不要打开,分解,挤压或燃烧电池。



**Material Safety Data Sheet** 

Do not storage the battery haphazardly in a box or drawer where they may short-circuit each other or be short-circuited by other metal objects.

不要将电池随意丢在盒子或抽屉里, 以免电池之间或电池与其他金属物质发生短路。

Keep out of reach of children.

Storage 储存

储存在小孩接触不到的地方。

Do not expose the battery to heat or fire. Avoid storage in direct sunlight.

不要将电池暴露在火源和热源附近,避免在阳光直射下存储。

Do not store together with oxidizing and acidic materials.

不要与氧化和酸性物质存储在一起。

## Section 8 - Exposure Controls/Personal Protection

### 第八部分 接触控制和个体防护

Engineering
Controls
工程控制

No engineering controls are required for handling batteries that have not been damaged. Personal protective equipments for damaged batteries should include chemical resistant gloves and safety glasses.

操作未破损的电池,没有工程控制要求。对于破损的电池,个人防护用品应包括化学品防护 手套和安全眼镜。

Respiratory Protection: In case of battery venting, provide as much ventilation as possible.

Avoid confined areas with venting cell cores. Respiratory Protection is not necessary under conditions of normal use. Not necessary under conditions of normal use.

呼吸保护: 当电池排气阀打开时,应尽量使通风设备开至最大,避免将打开排气阀的电芯局限在某一狭窄空间内。正常操作条件下,呼吸保护是不必要的。正常使用条件不必考虑。

### Personal Protective Equipment 个人防护设备

Protective Gloves: Not necessary under conditions of normal use

防护手套: 正常使用条件下不必考虑。

Other Protective Clothing or Equipment: Not necessary under conditions of normal use.

其他防护服装或设备:正常使用条件下不必考虑。

Personal Protection is recommended for venting battery: Respiratory Protection,

Protective Gloves, Protective Clothing and safety glass with side shields.

当电池排气阀打开时,应做好个人防护:呼吸防护,防护手套,防护服装和有护边的安全玻璃罩都是要准备的。



**Material Safety Data Sheet** 

# Section 9- Physical and Chemical Properties

第九部分 理化特性

	Form: Solid		
	形态: 固体	<u>&amp;_b_b</u>	
Physical State	Color: Gold and green		
物理状态	颜色: 金色和绿色		
	Odour: Odorless		
	气味: 无气味		
Change in condition 变化的条件			874
рН	Not applicable.	240	
酸碱度	不适用		
Flash Point	Not applicable.		
闪点	不适用		
Flammability	Not applicable.		1.65
易燃度	不适用		
Relative density	Not applicable.	1 20	
相对密度	不适用		
Solubility (Water)	Not applicable ADER BATTERY		
溶解性 (水溶性)	不适用。全庆新利达		
Solubility (Other)	Not applicable, 203000293		
溶解性 (其他)	不适用 * 017		

# Section 10 - Stability and Reactivity

第十部分 稳定性和反应性

Stability	Stable under normal temperatures and pressures.
稳定性	常温常压下稳定。



**Material Safety Data Sheet** 

Conditions to Avoid 应避免的条件	Heat above 70°C or Incinerate, Deform, Mutilate, Crush, Disassemble, Overcharge, Short circuit, Expose over a long period to humid conditions.  加热 70°C 以上或焚烧、变形、毁坏、粉碎、拆卸、过充电、短路,长时间暴露在潮湿的条件下。	
Hazardous Decomposition Products 危害分解物	Toxic Fumes, and may form peroxides. 有毒烟雾,并可能形成过氧化物。	
Possibility of Hazardous Reaction 危险反应的可能性	If leaked, forbidden to contact with strong oxidizers, mineral acids, strong alkalis, halogenated hydrocarbons. 如果发生泄露,避免与强氧化剂,无机酸,强碱,卤代烃接触。	

# Section 11 - Toxicological Information

# 第十一部分 毒理学信息

Irritation 刺激	In the event of exposure to internal contents, vapor fumes may be very irritating to the eyes and skin. 内部物质暴露的情况下,蒸汽烟雾可能对眼睛和皮肤产生刺激性。
Sensitization 致敏	Not applicable. 不适用
Reproductive Toxicity 再生毒性	Not applicable FADER BATTERY 不适用 学庆新利达
Toxicologically Synergistic Materials 协同材料毒理学	Not applicable 2030002931

# Section 12-Ecological Information

# 第十二部分 生态学信息

General noteDo not allow undiluted product or large quantities of it to ground water, water course or sewage system.通用信息不允许未稀释或大量的产品到达地下水、水道或污水系统。	reach
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Material Safety Data Sheet

Anticipated behavior of a chemical product in environment/possible environmental impact/ ecotoxicity 化学产品在环境/可能的环境预期的行为的一种生态毒性	Not applicable. 不适用
Mobility in soil	Not applicable.
土壤中移动性	不适用
Persistence and Degradability	Not applicable.
持久性和降解性	不适用

# Section 13 - Disposal Considerations

## 第十三部分 废弃处置

Waste Treatment 废弃处置方法	Recycle or dispose of in accordance with government, state & local regulations. 建议遵照国家和地方法规处置或再利用。
Attention for Waste Treatment 废弃注意事项	Deserted batteries couldn't be treated as ordinary trash. Couldn't be thrown into fire or placed in high temperature. Couldn't be dissected, pierced, crushed or treated similarly. Best way is recycling.  废电池不能被当做普通垃圾。不能扔进火中或置于高温工。不能解体,刺穿,破碎或类似的处理。最好的办法是同收到用文业有限公司。

# Section 14 - Transport Information

### 第十四部分 运输信息

According to Special Provision A123 of the 2023 *IATA Dangerous Goods Regulations* 64<sup>th</sup> Edition, Examples of such batteries are:

Alkali -manganese, zinc-carbon and nickel-cadmium batteries. Any electrical battery or battery powered device, equipment or vehicle having the potential of a dangerous evolution of heat must be prepared for transport so as to prevent:



Material Safety Data Sheet

根据 2023 年 IATA《危险物品规则》第 64 版特别规定 A123,这类电池比如:

碱性电池、碳性电池和镍镉电池。任何此类电池或电池供电的装置、设备或车辆在运输中都必须采取措施来防止以下潜在的危险:

- (a) 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
- (a) 短路(例如:如果是电池的话,需要将暴露的端子做有效的绝缘;如果是设备的话,需要断开电池和端子的连接)和
  - (b) accidental 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 "Not Dangerous Goods", when an Air Waybill is issued.

(b)意外启动

根据非危险物质托运单的要求,需要在托运单上标注清楚"不受限制"一词和特殊规定条款号。

UN number of Batteries, dry: N/A

于电池的 UN 编号: 不适用

UN Proper shipping name/Description(technical name): Batteries, dry

联合国正确运输名称/描述(技术名称): 干电池

UN Classification(Transport hazard class); N/A

UN 危险品分类(运输危险类别): 不适用

Packing group: N/A

包装等级: 不适用

The battery is not restricted according to IMO IMDG Code (inc Amdt 40-20).

根据 IMO IMDG Code (inc Amdt 40-20) 可按普通货物条件办理。

The battery is not restricted according to JT/T 617.2-2018 "Regulations concerning road transportation of dangerous goods - Part 2:Classification".

根据 JT/T 617.2-2018《危险货物道路运输规则 第 2 部分:分类》可按普通货物条件办理。

The battery is not restricted according to "List of Railway Dangerous Goods (2009)".

根据《铁路危险货物品名表》(2009年版)可按普通货物条件办理。

### Section 15 - Regulatory Information



Material Safety Data Sheet

## 第十五部分 法规信息

With regard to transport, the following regulations are cited and considered: 关于运输,引用以下规章和考量:

- The International Civil Aviation Organization (ICAO) Technical Instructions
- -国际民用航空组织(ICAO)技术说明
- The International Air transport Association (IATA) Dangerous Goods Regulations
- -国际航空运输协会(IATA)危险货物规则
- The International Maritime Dangerous Goods (IMDG) Code
- -国际海上危险货物运输(IMDG)代码
- The Office of Hazardous Materials Safety within the US Department of Transportation (DOT)
- -美国能源部运输办公室
- Research and Special Programs Administration (RSPA)
- -危险品安全研究和特殊的计划管理局(RSPA)
- Regulations concerning road transportation of dangerous goods
- -危险货物道路运输规则
- List of Railway Dangerous Goods
- -铁路危险货物品名表

### Section 16 - Additional Information

## 第十六部分 其他信息

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. Although reasonable precautions have been taken in the preparation of the data contained herein, it is offered solely for your information, consideration and investigation. This material safety data sheet provides guidelines for the safe handling and use of this product; it does not and cannot advise on all possible situations, therefore, your specific use of this product should be evaluated to determine if additional precautions are required.

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



**Material Safety Data Sheet** 

在我们看来上面的信息是准确的,这是我们目前能提供的最佳的信息。但是,对于这些信息,我们不对商品的性能做任何明示的或者暗示的保证,我们也不对使用这些信息造成的后果担负任何责任。用户应当自己调查研究后决定这些信息是否适用于他们的特定用途。尽管在该文档里提出了合理的预警,但是这仅仅只是给您做参考,考量和调查。 这份安全技术说明书提供了安全处理和使用该产品的指南,但是它没有,也不能对所有可能发生的情景提出建议,所以您需要根据您对该产品的特定使用情况来决定是否需要其他的预防措施。

此处所包含的数据/信息作为普通版本已经审核并批准,但是本发息。

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\*\*\*\*\*\*End of MSDS Report\*\*\*\*\*

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Page 12 of 12 第12 页共 12 页 Version Date 版本日期: 2022-10-09