Safety Data Sheet
(SDS)

Sample Name: Bear spray

Consignor: [redacted] Co.,Ltd

Manufacturer: [redacted] Co.,Ltd

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JUZT 上海矩正检测技术有限公司

Shanghai JUZT Testing Technology Co.,Ltd.

上海矩正检测技术有限公司 报告专用章 Dedicated report seal Shanghai JUZT Testing Technology Co.,Ltd

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

Sample Name: Bear spray
Consignor: [redacted]
Address:
Zip code:
Email:
Fax:
Emergency Phone:
Relevant Identified Uses: Please consult manufacturer.
Uses Advised Against: Please consult manufacturer.

SECTION 2 HAZARDS IDENTIFICATION

◆Hazard Classification According to GHS:

Flammable gases	Category 1
Acute toxicity, oral	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A

◆Label Elements:



Hazard pictograms:

Signal word: Danger

◆Hazard Statements:

H220 Extremely flammable gas
H302 Harmful if swallowed
H315 Causes skin irritation
H319 Causes serious eye irritation

◆Precautionary Statements:

Prevention:

P210 Keep away from heat, hot surface, sparks, open flames and other ignition sources. - No smoking.
P264 Wash .. thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

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Response:

P321	Specific treatment (see ... on this label).
P362	Take off contaminated clothing.
P377	Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
P381	In case of leakage, eliminate all ignition sources.
P301+P312	IF SWALLOWED: call a POISON CENTER/doctor/... IF you feel unwell.
P302+P352	IF ON SKIN: wash with plenty of water.
P332+P313	IF SKIN irritation occurs: Get medical advice/attention.
P337+P313	IF eye irritation persists: Get medical advice/attention.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

Storage:

P403 Store in a well-ventilated place.

Disposal:

P501 Dispose of contents/container to ...

Hazard Description:

Physical and chemical hazards:

This product is harmless to use under normal conditions.

Health hazards: None

Environ mental hazards: Please refer to 12th chapter of SDS.

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SECTION 3 INFORMATION ON INGREDIENTS

Substance☐ Prepation√

Component	CAS NO.	EC NO.	Concentration (weight percenr, %)
Pure natural capsaicin	404-86-4	206-969-8	12%
Moisture	7732-18-5	231-791-2	68%
Alcohol	64-17-5	200-578-6	19%
Propellant: Propane	74-98-6	200-827-9	1%

SECTION 4 FIRST-AID MEASURES

◆Description of First Aid Measures

Skin Exposure: Rinse the skin thoroughly with plenty of water. If irritation persists, seek medical attention.

Eye Exposure: Lift the eyes and face and rinse with running water for at least 15 minutes. If irritation persists, seek medical attention.

Inhalation Exposure: If inhaled, move the patient to fresh air. If breathing stops, give

artificial respiration and seek medical attention.

Intake: Never give anything by mouth to an unconscious person. If awake, rinse mouth with warm water and seek medical attention.

Protecting of first-aiders:

Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

◆Most important symptoms and effects, both acute and delayed:

Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

◆Indication of any immediate medical attention and special treatment needed:

Treat symptomatically.

Symptoms may be delayed.

SECTION 5 FIRE FIGHTING MEASURES

◆Extinguishing Media:

Suitable extinguishing media: Water,alcohol-resistant foam,dry powder,carbon dioxide.

Unsuitable extinguishing media: No data available.

◆Specific Hazards Arising from the Substance or Mixture:

No data available.

◆Advice for Firefighters:

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

Fight fire from a safe distance, with adequate cover.

Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6 ACCIDENTAL REL EASE MEASURES

◆Accidental Release Measures

Use personal protective equipment,do not breathe gas/mist/vapour/spray.

Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.

Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Use personal protective equipment. Avoid breathing vapor, smoke, gas or wind and dust.

◆Environmental Precautions

Prevent further leakage or spillage if safe to do so.

Discharge into the environment must be avoided.

◆Methods and Materials for Containment and Cleaning up

Adhered or collected material should be promptly disposed of, in accordance with appropriate

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laws and regulations.

Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

SECTION 7 HANDLING AND STORAGE

◆Precautions for Safe Handling

Handling is performed in a well-ventilated place.

Wear suitable personal protective equipment.

Avoid contact with skin and eyes.

Keep away from heat/sparks/open flames/ hot surfaces.

◆Precautions for Storage

Keep containers tightly closed.

Keep containers in a dry, cool and well-ventilated place.

Keep away from heat/sparks/open flames/hot surfaces.

Store away from incompatible materials and foodstuff containers.

SECTION 8 EXPOSURE CONTROL/PPE

◆Control Parameters

Occupational Exposure Limits

Component	Country/Region	Limit value (8h)		Limit value (Short term)	
		ppm	mg/m³	ppm	mg/m³
All components	USA-OSHA	-	-	-	-
	South Korea	-	-	-	-
	Ireland	-	-	-	-
	Germany (AGS)	-	-	-	-
	Denmark	-	-	-	-
	Australia	-	-	-	-
	ACGIH	-	-	-	-

Biological Iimit Values

Biological limit values: None.

Monitoring Methods

EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

GBZ/T 300.1~GBZ/T 300.160-2017; GBZ/T 300.161~GBZ/T 300.164-2018 Determination of toxic substances in workplace air (Series standard).

◆Engineering Controls

Ensure adequate ventilation, especially in confined areas.

Ensure that eyewash stations and safety showers are close to the workstation location.

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Use explosion-proof electrical/ventilating/lighting/equipment.

Set up emergency exit and necessary risk-elimination area.

◆**Personal Protection Equipment**

General Requirement:



Eye Protection: With ordinary goggles.

Hand Protection: Wear ordinary protective gloves.

Respiratory Protection: Wear ordinary protective mask.

Skin and Body Protection: Wear ordinary protective clothing.

SECTION 9 PHYSICAL/CHEMICAL PROPERTIES

Appearance: Black Compressed air tank(containing gas and liquid).

Odor: Penetrating odor. .

Odor Threshold: No data available.

PH value: No data available.

Melting Point/Freezing Point (℃) :	No data available.
Initial Boiling Point and Boiling Range (℃) :	No data available.
Flash Point (closed cup, ℃) :	<28℃.
Evaporation Rate:	No data available.
Flammability (solid or gas) :	No data available.
Explosion Upper/lower limit [%(v/v)]:	No data available.
Vapor Pressure (kPa) :	No data available.
Vapor Density (air= 1) :	No data available.
Relative Density (water = 1) :	No data available.
Solubility (mg/L) :	No data available.
Octanol/Water Partition Coefficient:	No data available.
Auto-ignition Temperature. (℃) :	No data available.
Decomposition Temperature (℃) :	No data available.
Kinematic Viscosity:	No data available.

SECTION 10 STABILITY AND REACTIVITY

Reactivity: Contact with incompatible materials can cause decomposition or other chemical reactions.

Chemical Stability:

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Stable under the correct conditions of use and storage.

Possibility of Hazardous Reactions: None under normal processing conditions.

Conditions to Avoid: Electrostatic discharge, heat, humidity, rtc.

Incompatible Materials: No data available.

Hazardous Decomposition Products: None under normal use conditions, Small quantities of undetermined hazardous decomposition products may be released incase of heat exposure or during a fire.

SECTION 11 TOXICOLOGICAL INFORMATION

◆Acute Toxicity

Component	LD_{50} (Oral)	LD_{50} (Dermal)	LC_{50} (Inhalation, 4h)
All components	Not available	Not available	Not available

◆Carcinogenicity

Component	IARC	NTP
All components	Not Listed	Not Listed

Other

All Components:

Corrosiveskin/Irritation: No data available.

Serious Eye Damage/Irritation: No data available.

Skin Sensitization: Not applicable.

Respiratory Sensitization: Not applicable.

Reproductive Toxicity: Not applicable.

Specific Target Organ Toxicity-Single Exposure: No data available.

Specific Target Organ Toxicity-Repeated Exposure: Not applicable .

Aspiration Hazard: No data available

Germ cell Mutagenicity: No data available.

Reproductive Toxicity: Not applicable.

SECTION 12 ECOLOGICAL INFORMATION

◆Acute Aquatic Toxicity

Components	Fish	Crustaceans	Algae
All components	No data available	No data available	No data available

◆Chronic Aquatic Toxicity

Chronic Aquatic Toxicity: No data available.

Others

Persistence and Degradability: No data available.

Bioaccumulation or Bioaccumulation: No data available.

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Soil Mobility: No data available.
Evaluation of PBT and vPvB Results: No data available.

SECTION 13 DISPOSAL CONSIDERATION

Disposal Considerations: Disposal should be in accordance with applicable regional, national and local laws and regulations.

Waste Chemicals: Contaminated packaging: Residual hazards may still exist after the contents of the packaging are emptied. Keep away from heat and sources of ignition. If possible, recycle them to the supplier for recycling.

Disposal Considerations: Refer to the "Disposal" section.

SECTION 14 TRANSPORT INFORMATION

Label and Mark



Transporting Label:

Marine pollutant: None
IMDG CODE 42-24Edition
United Nations Dangerous Goods Number (UN No.): 1950.
UN Proper Shipping Name: AEROSOLS
Transport hazard class: 2.1
Transport subsidiary hazard class: None
Packing group: No
Marine Pollutants (Yes/No): No
Packing Method: No data available.

SECTION 15 REGULATORY INFORMATION

◆**International Chemical Inventory**

Components	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS
Pure natural capsaicin	√	√	×	×	√	×	×	√
Moisture	√	√	√	√	√	√	√	√
Alcohol	√	√	√	√	√	√	√	√

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Propellant:Propane	√	√	√	√	√	√	√	√

【EINECS】 European Inventory of Existing Commercial Chemical Substances
【TSCA】 United States Toxic Substances Control Act Inventory
【DSL】 Canadian Domestic Substances List
【IECSC】 China Inventory of Existing Chemical Substances
【NZIoC】 New Zealand Inventory of Chemicals
【PICCS】 Philippines Inventory of Chemicals and Chemical Substances
【KECI】 Korea Existing Chemical List
【AICS】 Australia Inventory of Chemical Substances

Note

"√" Indicates that the substance included in the regulations

"×" That no data or included in the regulations

SECTION16 OTHER INFORMATION

◆Reference:

【1】IPCS:The International Chemical Safety Cards (ICSC),website: http://www.ilo.org/dyn/icsc/showcard.home
【2】IARC,website: http://www.iarc.fr/
【3】OECD The Global Portal to Information on Chemical Substances,website: http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en
【4】CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple
【5】CAMEO Chemicals, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp
【6】EPA:Integrated Risk Information System,website: http://cfpub.epa.gov/iris/
【7】U.S. Department of Transportation: http://www.phmsa.dot.gov/hazmat/library/erg
【8】Germany GESTIS-database on hazard substance,website: http://gestis-en.itrust.de/

Abbreviations and Acronyms:

CAS - Chemical Abstracts Service
TSCA - Toxic Substances Control Act
PC-STEL - Short term exposure limit
PC-TWA - Time Weighted Average
DNEL - Derived No Effect Level
RPE - Respiratory Protective Equipment
IARC - International Agency for Research on Cancer
PNEC - Predicted No Effect Concentration
LC_{50} - Lethal Concentration 50%
LD_{50} - Lethal Dose 50%
NOEC - No Observed Effect Concentration
EC_{50} - Effective Concentration 50%

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PBT - Persistent, Bioaccumulative,Toxic

POW - Partition coefficient Octanol: Water

BCF - Bioconcentration factor (BCF)

vPvB - very Persistent,very Bioaccumulative

CMR - Carcinogens, mutagens or substances toxic to reproduction

IMDG - International Maritime Dangerous Goods

ICAO/IATA - InternationalCivil Aviation Organization/ International Air Transportation Association

UN - The United Nations

ACGIH - American Conference of Governmental Industrial Hygienists

NFPA - National Fire Protection Association

OECD - Organization for Economic Co-operation and Development

Disclaimer

This Safety Data Sheet (SDS) was prepared according to UN GHS (the 11th revised edition). The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume reaponsibility for loss,damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.



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