MATERIAL SAFETY DATA SHEET PEPPER SPRAY

Acc. To OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date: February 1, 2020 Revision: February 22, 2019

1 Identification

Product identifier
Trade name: **Pepper Spray fogger Aerosol**
Recommended use and restriction on use ·
Recommended use: Crowd Control Device ·
Restrictions on use: Contact manufacturer ·

Details of the supplier of the Safety Data Sheet · Manufacturer/Supplier:

South Africa .

Customer Care (24) 825596846 ·
Emergency telephone number: Tel.: +27 21 808 9111 Stellenbosch, South Africa
POISONS INFORMATION HELPLINE(24HRS) 0861-555-777The Poisons Information Centre at Red Cross Children's Hospital

2 Hazard(s) identification

Classification of the substance or mixture

Press Gas	H280	Contains gas under pressure; may explode if heated.
Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2A	H319	Causes serious eye irritation.
STOT SE 3	H335	May cause respiratory irritation. ·

Additional information:
There are no other hazards not otherwise classified that have been identified. 0 % of the mixture consists of component(s) of unknown toxicity.

Label elements ·
GHS label elements
The product is classified and labeled according to the Globally Harmonized System (GHS). ·
Hazard pictograms:

GHS04 GHS07

Signal word: Warning
Hazard-determining components of labelling:
Oleoresin Capsicum
Hazard statements:

H280	Contains gas under pressure; may explode if heated.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Precautionary statements:

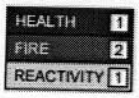
P261	Avoid breathing mist/vapors/spray.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.

P362+P364	Take off contaminated clothing and wash it before reuse.
P405	Store locked up.
P410+P403	Protect from sunlight. Store in a well-ventilated place.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system ·
NFPA ratings (scale 0 - 4)

Health = 1
Fire = 2
Reactivity = 1

HMIS-ratings (scale 0 - 4)



Health = 1
Fire = 2
Reactivity = 1

3 Composition/information on ingredients

Chemical characterization: Mixtures Components :

Chemical Name	Cas no	Percentage
Oleoresin Capsicum	8023-77-6	15-25%
Dimethyl Carbonyl	67-64-1	1 – 5 %
Methyl Carinol	64-17-5	50 – 80%

Additional information:
For the listed ingredient(s), the identity and exact percentage(s) are being withheld as a trade secret.

4 First-aid measures

Description of first aid measures
General information: Take affected persons out into the fresh air. ·
After inhalation: Supply fresh air; consult doctor in case of complaints.
After skin contact:
Immediately wash with water and soap and rinse thoroughly. If skin irritation or rash occurs: Get medical advice/attention.
After eye contact:
Remove contact lenses if worn.
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. ·
After swallowing:
Unlikely route of exposure.
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; immediately call for medical help. ·
Most important symptoms and effects, both acute and delayed:
Coughing
Dizziness
Irritant to skin and mucous membranes.
Irritant to eyes.
May cause respiratory irritation.
Gastric or intestinal disorders when ingested. ·
Danger: No relevant information available. ·
Indication of any immediate medical attention and special treatment needed:
Medical supervision for at least 48 hours.
If necessary oxygen respiration treatment.

5 Fire-fighting measures

Extinguishing media ·
Suitable extinguishing agents: Use fire fighting measures that suit the environment. ·
For safety reasons unsuitable extinguishing agents: None. ·
Special hazards arising from the substance or mixture
Danger of receptacles bursting because of high vapor pressure if heated.
Advice for firefighters ·
Protective equipment:
Wear self-contained respiratory protective device.
Wear fully protective suit. ·
Additional information: Use large quantities of foam as it is partially destroyed by the product.

6 Accidental release measures ·

Personal precautions, protective equipment and emergency procedures:
For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.
For large spills, wear protective clothing.
Ensure adequate ventilation. ·
Environmental precautions: No special measures required. ·
Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13.
Send for recovery or disposal in suitable receptacles.
Reference to other sections:
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

Handling ·
Precautions for safe handling:
Use only in well ventilated areas.
Avoid splashes or spray in enclosed areas. ·
Information about protection against explosions and fires:
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 120 °F / 49 °C, i.e. electric lights. Do not pierce or burn, even after use.
Do not spray on a naked flame or any incandescent material. ·

Conditions for safe storage, including any incompatibilities .
Storage
· Requirements to be met by storerooms and receptacles:
Observe official regulations on storing packagings with pressurized containers.
· Information about storage in one common storage facility: Store away from foodstuffs.
· Further information about storage conditions:
Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.
· Specific end use(s): No relevant information available.

8 Exposure controls/personal protection

Control parameters
· Components with limit values that require monitoring at the workplace:

67 -64-1 Dimethyl Carbonyl
PEL (USA) Long-term value: 1900 mg/m³, 1000 ppm REL (USA) Long-term value: 1900 mg/m³, 1000 ppm TLV (USA) Short-term value: 1880 mg/m³, 1000 ppm EL (Canada) Short-term value: 1000 ppm EV (Canada) Long-term value: 1.900 mg/m³, 1.000 ppm LMPE (Mexico) Long-term value: 1000 ppm A3

7727-37-9 nitrogen

TLV (USA)	withdrawn TLV, see App. F; simple asphyxiant
EL (Canada)	Simple asphyxiant
LMPE	(Mexico) Asfixiante simple

64-17-5 Methyl carbinol

WEEL (USA)	Long-term value: 10 mg/m³
EV (Canada)	Long-term value: 155* 10** mg/m³, 50* ppm *vapour and aerosol;**aerosol only

Exposure controls · Engineering measures Provide adequate ventilation. ·
Personal protective equipment: ·
General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin. ·
Engineering controls: No relevant information available. ·
Breathing equipment: Use suitable respiratory protective device when high concentrations are present. ·
Protection of hands:


Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. ·
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 through time has to be found out by the manufacturer of the protective gloves and has to be observed. ·
Eye protection:


Safety glasses

Body protection: Protective work clothing ·
Limitation and supervision of exposure into the environment
No relevant information available.

9 Physical and chemical properties

Information on basic physical and chemical properties ·

Appearance:	
Form:	Aerosol
Color:	According to product specification ·(Brownnesh Orange)
Odor:	Pungent ·
Odor threshold:	Not determined
pH-value:	Not determined.
Melting point/Melting range:	Not determined. ·
Boiling point/Boiling range:	> 104 °C (> 219 °F)
Flash point:	Not applicable. ·
Flammability (solid, gaseous):	Not applicable. ·
Auto-ignition temperature:	371 °C (700 °F) ·
Decomposition temperature:	Not determined. ·
Auto igniting:	Product is not self-igniting. ·
Danger of explosion:	Product does not present an explosion hazard. ·
Explosion limits Lower:	3.5 Vol % Upper: 15.0 Vol % ·
Vapor pressure at 20 °C (68 °F):	59 hPa (44 mm Hg) ·

Density:	Not determined. ·
Relative density:	Not determined. ·
Vapor density:	Not determined. ·
Evaporation rate:	Not determined. ·
Solubility in / Miscibility with Water:	Fully miscible. ·
Partition coefficient (n-octanol/water):	Not determined. ·
Viscosity Dynamic:	Not determined.
Kinematic:	Not determined. ·
Other information	No relevant information available.

10 Stability and reactivity

Reactivity: No relevant information available. ·
Chemical stability: ·
Thermal decomposition / conditions to be avoided:
Danger of receptacles bursting because of high vapor pressure if heated. ·
Possibility of hazardous reactions: No dangerous reactions known. ·
Conditions to avoid: No relevant information available. ·
Incompatible materials: No relevant information available. ·
Hazardous decomposition products: Possible in traces.

11 Toxicological information

Information on toxicological effects ·
Acute toxicity:
LD/LC50 values that are relevant for classification: 8023-77-6 Oleoresin Capsicum
Oral LD50 3000 mg/kg (rat) Dermal LD50 >2500 mg/kg (mouse)

Primary irritant effect: ·
On the skin: Irritant to skin and mucous membranes. ·
On the eye: Irritating effect. ·
Sensitization: No sensitizing effects known. ·
Subacute to chronic toxicity: No relevant information available

IARC (International Agency for Research on Cancer):
64-17-5 ethanol/ methyl carbinol
· NTP (National Toxicology Program): None of the ingredients are listed.
· OSHA-Ca (Occupational Safety & Health Administration): None of the ingredients are listed.
Probable route(s) of exposure:
Inhalation. Eye contact. Skin contact.
Acute effects (acute toxicity, irritation and corrosivity):
Irritating to eyes. Irritating to respiratory system. Irritating to skin. ·
Repeated dose toxicity: No relevant information available.

12 Ecological information

Toxicity

Aquatic toxicity	No relevant information available.
Persistence and degradability	No relevant information available.
Bioaccumulative potential:	No relevant information available.
Mobility in soil:	No relevant information available.

Additional ecological information ·
General notes: Negative ecological effects are, according to the current state of knowledge, not expected. ·
Results of PBT and vPvB assessment ·
PBT: Not applicable. ·
vPvB: Not applicable.

Other adverse effects: No relevant information available

13 Disposal considerations

Waste treatment methods ·
Recommendation:
Must not be disposed of together with household garbage. Do not allow product to reach sewage system. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous. ·
Uncleaned packagings ·
Recommendation: Disposal must be made according to official regulations. ·
Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

UN-Number ·
DOT, ADR, IMDG, IATA UN1950
UN proper shipping name ·
DOT Aerosols, non-flammable ·
ADR 1950 AEROSOLS ·
IMDG AEROSOLS ·
IATA AEROSOLS, non-flammable

· Transport hazard class(es) · DOT

· Class 2.2 · Label 2.2

· ADR

· Class 2.2 5A · Label 2.2

· IMDG, IATA

Class 2.2 · Label 2.2
Packing group ·
DOT, ADR, IMDG, IATA II
Environmental hazards :
Marine pollutant: No ·
Special precautions for user Not applicable. ·
Danger code (Kemler): 20 ·
EMS Number: F-D,S-U ·
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. ·
Transport/Additional information: ·
DOT ·
Quantity limitations On passenger aircraft/rail: 75 kg
On cargo aircraft only: 150 kg ·
ADR · Excepted quantities (EQ) Code: E0
Not permitted as Excepted Quantity ·

IMDG · Excepted quantities (EQ) Code: E0
Not permitted as Excepted Quantity.

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture ·
United States (USA) ·
SARA ·
Section 355 (extremely hazardous substances):
None of the ingredients are listed. ·
Section 313 (Specific toxic chemical listings): None of the ingredients are listed. ·
TSCA (Toxic Substances Control Act) All ingredients are listed.
Proposition 65 (California) ·
Chemicals known to cause cancer:
Ethanol - listing refers specifically to alcoholic beverage consumption and is not applicable for product.
64-17-5 ethanol ·
Chemicals known to cause reproductive toxicity for females:
None of the ingredients are listed. ·
Chemicals known to cause reproductive toxicity for males:
None of the ingredients are listed. ·
Chemicals known to cause developmental toxicity:
Ethanol - listing refers specifically to alcoholic beverage consumption and is not applicable for product.
64-17-5 ethanol · Carcinogenic categories ·
EPA (Environmental Protection Agency): None of the ingredients are listed. ·
IARC (International Agency for Research on Cancer):
64-17-5 ethanol 1 ·
NIOSH-Ca (National Institute for Occupational Safety and Health): None of the ingredients are listed. ·
Canada · Canadian substance listings · Canadian Domestic Substances List (DSL): All ingredients are listed.
· Canadian Ingredient Disclosure list (limit 0.1%): 64-17-5 ethanol · Canadian Ingredient Disclosure list (limit 1%): 57-55-6

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. · Date of preparation / last revision February 22, 2019
Abbreviations and acronyms:
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals ACGIH: American Conference of Governmental Industrial Hygienists CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative Press. Gas: Gases under pressure: Compressed gas Press. Gas: Gases under pressure: Refrigerated liquefied gas Flam. Liq. 2: Flammable liquids, Hazard Category 2 Acute Tox. 4: Acute toxicity, Hazard Category 4 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2 Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1 Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3 · Sources MSDS Prepared by: Mr E J Franco (National Hygiene)

Preparation Date: 10/20/2015
Revision Date: February 22, 2019

Prepared by: Mr E J Franco (HCM)

Disclaimer: All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. The physical properties reported in this MSDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Rednut Aerosols cc . assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this NSDS is based on technical data judged to be reliable, Rednut Aerosols cc . assumes no responsibility for the completeness or accuracy of the information contained herein.