

Safety Data Sheet

According to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: 1 November 2022

1 Identification

Product identifier

Trade name: Duke Self Defence Pepper Spray, Direct Stream, 2,0%

Product Code: SKU: WP3:P91 / Barcode: 6009658262598

Recommended use and restriction on use

Recommended use: Crowd Control Device

Restrictions on use: Contact manufacturer



Supplied by:



Tel: 011 791 5515

www.Stemar.co.za

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 labeling:

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.

Safety Data Sheet

According to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: 1 November 2022

Trade name: Duke Self Defence Pepper Spray, Direct Stream, 2,0%

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 = 0
 Reactivity = 1

HMIS-ratings (scale 0 - 4)



HEALTH 1 Health = 1
 FIRE 0 Fire = 0
 REACTIVITY 1 Reactivity = 1

Chemical characterization: Mixtures

3 Composition/information on ingredients

Components:

8023-77-6 Oleoresin Capsicum



Eye Dam. 1, H318
 Acute Tox. 4, H302; Skin Irrit. 2, H315

<10%

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.

Safety Data Sheet

According to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: 1 November 2022

Trade name: Duke Self Defence Pepper Spray, Direct Stream, 2,0%**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.

Safety Data Sheet

According to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: 1 November 2022

Trade name: Duke Self Defence Pepper Spray, Direct Stream, 2,0%

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

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.

Safety Data Sheet

According to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: 1 November 2022

Trade name: Duke Self Defence Pepper Spray, Direct Stream, 2,0%

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 cannot 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.

Safety Data Sheet

According to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: 1 November 2022

Trade name: Duke Self Defence Pepper Spray, Direct Stream, 2,0%

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 cannot be calculated in advance and has therefore to be checked prior to the application.

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

Odor:

Pungent

Odor threshold:

Not determined.

pH-value:

Not determined.

Safety Data Sheet

According to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: 1 November 2022

Trade name: Duke Self Defence Pepper Spray, Direct Stream, 2,0%

| | |
|---|---|
| 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: | Not applicable. |
| 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.

Safety Data Sheet

According to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: 1 November 2022

Trade name: Duke Self Defence Pepper Spray, Direct Stream, 2,0%

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):

None of the ingredients are listed.

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.

Safety Data Sheet

According to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: 1 November 2022

Trade name: Duke Self Defence Pepper Spray, Direct Stream, 2,0%

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
ADR
IMDG
IATA

Aerosols, non-flammable
1950 AEROSOLS
AEROSOLS
AEROSOLS, non-flammable

Transport hazard class(es)

DOT



Class
Label

2.2
2.2

ADR



Class
Label

2.2 5A
2.2

Safety Data Sheet

According to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: 1 November 2022

Trade name: Duke Self Defence Pepper Spray, Direct Stream, 2,0%

IMDG, IATA

| | |
|--------------|-----|
| Class | 2.2 |
| Label | 2.2 |

| | |
|-----------------------------|----|
| Packing group | II |
| DOT, ADR, IMDG, IATA | |

| | |
|------------------------------|----|
| 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.

Safety Data Sheet

According to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: 1 November 2022

Trade name: Duke Self Defence Pepper Spray, Direct Stream, 2,0%

Proposition 65 (California)

Chemicals known to cause cancer:

None of the ingredients are listed.

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:

None of the ingredients are listed.

Carcinogenic categories

EPA (Environmental Protection Agency):

None of the ingredients are listed.

IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

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%):

None of the ingredients are listed.

Canadian Ingredient Disclosure list (limit 1%):

None of the ingredients are listed.

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

16 Other information

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

Date of preparation / last revision February 22, 2016 / - November 1, 2022

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)

Safety Data Sheet

According to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: 1 November 2022

Trade name: Duke Self Defence Pepper Spray, Direct Stream, 2,0%

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

