

# SAFETY DATA SHEET

In accordance with 1907/2006 annex II 2015/830 and 1272/2008

(All references to EU regulations and directives are abbreviated into only the numeric term)

Issued 2019-05-09

Version number 1.0

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Trade name Plegium Smart Defence Spray

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Self defense spray to be sprayed in the face of an attacker

### 1.3. Details of the supplier of the safety data sheet

Company Plegium AB  
Stortorget 3  
111 29 Stockholm  
Sweden  
Telephone +46 (8) 55 92 55 10  
E-mail contact@plegium.com  
Website www.plegium.com

### 1.4. Emergency telephone number

Acute cases: Call 112, request poison information.

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Aerosol (category 3), H229

### 2.2. Label elements

Hazard pictogram Not applicable  
Signal word Warning  
Hazard statement  
H229 Pressurised container: May burst if heated  
Precautionary statements  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
P251 Do not pierce or burn, even after use  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C

### 2.3. Other hazards

This product does not contain any substances that are assessed to be a PBT or a vPvB

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

The product contains no substances, nor concentration levels thereof, that require marking or that need to be declared.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Generally

In case of concern, or if symptoms occur, call a doctor/physician.

#### Upon breathing in

Fresh air and rest. If symptoms persist seek medical advice.

#### Upon eye contact

Rinse eyes with plenty of water. If symptoms persist, seek medical advice.

#### Upon skin contact

Normal washing of the skin is considered sufficient; If nevertheless symptoms do occur, contact a physician.

### **Upon ingestion**

Rinse nose, mouth and throat with water.

Get medical attention if you feel unwell.

### **4.2. Most important symptoms and effects, both acute and delayed**

#### **Upon breathing in**

High concentrations can displace the normal air and cause suffocation from lack of oxygen.

### **4.3. Indication of any immediate medical attention and special treatment needed**

Symptomatic treatment.

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

### **5.1. Extinguishing media**

#### **Recommended extinguishing agents**

Extinguish with water mist, powder, carbon dioxide or alcoholresistant foam.

#### **Unsuitable extinguishing agents**

May not be extinguished with water dispersed under high pressure.

### **5.2. Special hazards arising from the substance or mixture**

Aerosols may explode when heated to temperatures above 50°C.

Produces fumes containing harmful gases (carbon monoxide and carbon dioxide) when burning, and, in case of incomplete combustion, aldehydes and other toxic, harmful, irritant or environmentally harmful substances.

### **5.3. Advice for fire-fighters**

Protective measures should be taken regarding other material at the site of the fire.

Wear full protective clothing.

In case of fire use a respirator mask.

Cool closed containers that were exposed to fire with water.

The containers should be moved away from the place of fire, if this can take place without risks.

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

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

In case of spillage in protected water, call the emergency services immediately, tel. 112 (in Europe).

Switch off equipment which has an exposed flame, glows, or has a heat source of some other kind.

Evacuate the accident area and call an ambulance, if relevant.

Keep unauthorized and unprotected people at a safe distance.

Do not inhale vapours and avoid contact with skin, eyes and clothes when cleaning up the spillage.

Ensure good ventilation.

Use masks with fresh air when oxygen content is low or unknown.

### **6.2. Environmental precautions**

Avoid release to drains, soil or watercourses.

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

Let the gas from the leaking gas cylinders evaporate outdoors.

Smaller spills can be left to evaporate if ventilation is adequate.

Ensure good ventilation after sanitation.

### **6.4. Reference to other sections**

See section 8 and 13 for personal protection equipment and disposal considerations.

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

Avoid open fire, hot items, sparks or other ignition sources.

Pressure containers: do not puncture or burn, not even empty containers. Protect from sunlight. Do not expose to temperatures in excess of 50 °C.

Do not eat, drink or smoke in premises where this product is handled.

Store this product separately from food items and keep it out of the reach of children and pets.

Avoid spillage, inhalation and contact with eyes and skin.

Wash your hands after using the product.

Remove contaminated clothing.

Wash contaminated clothing before reuse.

Local exhaust ventilation may be necessary.

Keep away from incompatible products.

Use recommended safety equipment, see section 8.

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

The product should be stored in a manner which prevents hazards to health and the environment. Avoid exposure to humans and animals and do not discharge the product in a sensitive environment.

This product should be stored well out of reach of young children and kept safely apart from products intended for consumption.

Keep away from heat and sunlight.

Store at maximum 50 °C.

Store in dry and cool area.

Store in a well-ventilated space.

Do not store close to incompatible materials (see section 10.5).

## 7.3. Specific end uses

See identified uses in Section 1.2.

# SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

### 8.1.1. National limit values

#### PROPYLENE GLYCOL

#### United Kingdom (EH40/2005)

Time-weighted-average exposure limit (TWA) 10 mg/m<sup>3</sup> (Particulates) / 150 ppm (Total (vapour and particulates)) / 474 mg/m<sup>3</sup> (Total (vapour and particulates))

#### DNEL

No data available.

#### PNEC

No data available.

## 8.2. Exposure controls

To prevent occupational risks the health hazards for this product or any of the ingredients should be taken into account (see sections 2, 3 and 11), according to EU Directive 89/391 and 98/24 and national jurisdiction for occupational risks.

### 8.2.1. Appropriate engineering controls

Handle in premises with good ventilation.

Use local exhaust ventilation.

### Eye/face protection

Eye protection should be worn if there is any danger of direct exposure or splashing.

### Skin protection

Protective gloves are normally not needed due to the properties of this product, but may be necessary for other reasons, e.g. mechanical risks, temperature conditions or microbiological risks.

### Respiratory protection

Protective breathing equipment should only be required in extreme work-situations. Consult the manufacturer if this is the case.

Note that a breathing mask with a filter does not protect against lack of oxygen in the air.

Use breathing apparatus with oxygen supply for prolonged exposure.

### 8.2.3. Environmental exposure controls

Avoid release to soil and waterways.

## SECTION 9: Physical and chemical properties

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

a) Appearance	Form: liquid.
b) Odour	Not indicated
c) Odour threshold	Not indicated
d) pH	Not indicated
e) Melting point/freezing point	Not indicated
f) Initial boiling point and boiling range	Not indicated
g) Flash point	Not indicated
h) Evaporation rate	Not indicated
i) Flammability (solid, gas)	Not flammable
j) Upper/lower flammability or explosive limits	Not indicated
k) Vapour pressure	Not indicated
l) Vapour density	Not indicated
m) Relative density	Not indicated
n) Solubility	Not indicated
o) Partition coefficient: n-octanol/water	Not applicable
p) Auto-ignition temperature	Not indicated
q) Decomposition temperature	Not indicated
r) Viscosity	Not indicated
s) Explosive properties	Not explosive
t) Oxidising properties	Not oxidizing

### 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product contains no substances which can lead to hazardous reactions at normal use.

### 10.2. Chemical stability

The product is stable at normal storage and handling conditions.

### 10.3. Possibility of hazardous reactions

No hazardous reactions known during normal use.

### 10.4. Conditions to avoid

Avoid heat, sparks and open flames.

Protect from heat and direct sunlight.

Do not expose to temperatures above 50 °C.

### 10.5. Incompatible materials

Avoid contact with oxidizers.

Avoid contact with strong acids.

### 10.6. Hazardous decomposition products

None under normal conditions.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Not indicated.

#### Acute toxicity

The product is not classified as acutely toxic.

#### Skin corrosion/irritation

The mixture is judged as a whole and is classified to be neither corrosive nor irritant to skin. Mild irritation may occur on prolonged or repeated exposure.

#### Serious eye damage/irritation

The mixture is judged as a whole and is classified to be neither corrosive nor irritant to the eyes. Mild irritation may occur on prolonged or repeated exposure.

#### Respiratory or skin sensitisation

The product does not contain any known allergens.

**Germ cell mutagenicity**

No mutagenic effects have been reported for the substance in this mixture.

**Carcinogenicity**

No carcinogenic effects have been reported for the substances in this product.

**Reproductive toxicity**

No toxic effects to reproduction have been reported for the substances in this mixture.

**STOT-single exposure**

The criteria for classification cannot be considered fulfilled based on available data.

High concentrations can displace the normal air and cause suffocation from lack of oxygen.

**STOT-repeated exposure**

The criteria for classification cannot be considered fulfilled based on available data.

**Aspiration hazard**

The product is not classified as being toxic for aspiration.

## SECTION 12: Ecological information

**12.1. Toxicity**

No ecological damage is known or expected in the event of normal use.

Avoid larger spills directly in soil, water and drains.

**12.2. Persistence and degradability**

There is no information regarding persistence or degradability.

**12.3. Bioaccumulative potential**

There is no information regarding bioaccumulation.

**12.4. Mobility in soil**

Information about mobility in nature is not available.

**12.5. Results of PBT and vPvB assessment**

This product does not contain any substances that are assessed to be a PBT or a vPvB.

**12.6. Other adverse effects**

Data lacking.

## SECTION 13: Disposal considerations

**13.1. Waste treatment methods****Waste handling of the product**

May not be disposed of with household waste.

Avoid discharge into sewers.

Pressurized container: Do not pierce or burn, even after use.

Observe local regulations.

See also national waste regulations.

## SECTION 14: Transport information

Where not otherwise stated the information applies to all of the UN Model Regulations, i.e. ADR (road), RID (railway), ADN (inland waterways), IMDG (sea), and ICAO (IATA) (air).

**14.1. UN number**

1950

**14.2. UN proper shipping name**

AEROSOLS

**14.3. Transport hazard class(es)****Class**

2: Gases

**Classification code (ADR/RID)**

5A: Aerosols, asphyxiant

## Labels



### 14.4. Packing group

Not applicable

### 14.5. Environmental hazards

Not applicable

### 14.6. Special precautions for user

#### Tunnel restrictions

Tunnel category: E

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

### 14.8 Other transport information

Transport category: 3; Maximum total quantity per transport unit: 1000 kgs or litres

Stowage category A (IMDG)

Emergency Schedule (EmS) for FIRE (IMDG) F-D

Emergency Schedule (EmS) for SPILLAGE (IMDG) S-U

Special provision 190 of ADR applies: Aerosols with a capacity not exceeding 50 ml containing only non-toxic constituents are not subjected to the requirements of ADR.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Not indicated.

### 15.2. Chemical safety assessment

Assessment and chemical safety report in accordance with 1907/2006 Annex I has not yet been performed.

## SECTION 16: Other information

### 16a. Indication of where changes have been made to the previous version of the safety data sheet

#### Revisions of this document

This is the first version

### 16b. Legend to abbreviations and acronyms used in the safety data sheet

#### Explanations of the abbreviations in Section 14

ADR European Agreement concerning the International Transport of Dangerous Goods by Road  
RID Regulations concerning the International Transport of Dangerous Goods by Rail  
IMDG International Maritime Dangerous Goods Code  
ICAO International Civil Aviation Organization (ICAO, 999 University Street, Montreal, Quebec H3C 5H7, Canada)  
IATA The International Air Transport Association  
Tunnel restriction code: E; Passage through category E tunnels is strictly forbidden  
Transport category: 3; Maximum total quantity per transport unit: 1000 kgs or litres

#### **16c. Key literature references and sources for data**

##### **Sources for data**

Primary data for the calculation of the hazards has preferentially been taken from the official European classification list, 1272/2008 Annex I, as updated to 2019-05-09.

Where such data was not available, alternative documentation used to establish the official classification was used, e.g. IUCLID (International Uniform Chemical Information Database). As a second alternative, information was used from reputable international chemical industries, and as a third alternative other available information was used, e.g. material safety data sheets from other suppliers or information from non-profit associations, where reliability of the source was assessed by expert opinion. If, in spite of this, reliable information could not be sourced, the hazards were assessed by expert opinions based on the known hazards of similar substances, and according to the principles in 1907/2006 and 1272/2008.

##### **Full texts for Regulations mentioned in this Safety Data Sheet**

- 1907/2006 REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC
- 2015/830 COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
- 1272/2008 REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
- EH40/2005 EH40/2005 Workplace exposure limits
- 1907/2006 REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC

#### **16d. Methods of evaluating information referred to in 1272/2008 Article 9 which was used for the purpose of classification**

Hazard calculation for this mixture has been performed as a cumulative assessment with the aid of expert assessments in accordance with 1272/2008 Annex I, where all available information which may be significant to establishing the hazards of the mixture was assessed together, and in accordance with 1907/2006 Annex XI.

#### **16e. List of relevant hazard statements and/or precautionary statements**

#### **16f. Advice on any training appropriate for workers to ensure protection of human health and the environment**

##### **Warning for misuse**

This product is not expected to cause severe harm to humans or the environment. The manufacturer, the distributor or the supplier are not responsible for adverse effects if the product is not handled in accordance with the directions for use.

##### **Other relevant information**

Not indicated

##### **Editorial information**



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