

# SAFETY DATA SHEET

## MATERIAL SAFETY DATA SHEET

Last changed: 19/05/2009

Internal No:

Replaces date:

# LADYGUARD

1. DALA Produktion I BORLÄNGE SWEDEN. Phone: +46 243-22 12 10

- ☒ Approved for use  
☒ Approved for laboratory use  
☒ Approved by Aerosol Scandinavia AB

☐  
☐  
☐

### TRADE NAME

LADYGUARD Defense spray

### Internal sort no.

1-8295

### Internal Name

LADYGUARD

### National manufacturer/importer

Enterprise Aerosol Scandinavia AB  
Address Box 61  
Postal code 186 21 Vallentuna  
Country Sweden  
Internet [www.aerosol.se](http://www.aerosol.se)  
Telephone +46 8 511 888 00  
Fax +46 8 511 888 01

### Emergency Phone

112

### Type of assistance

### Opening Hours

## 2. HAZARDS IDENTIFICATION



Extremely flammable

### GENERAL

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

### FIRE AND EXPLOSION

Extremely flammable. Pressure chamber may explode in the event of fire.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

No	Ingredient name	Reg.No	EC No.	CAS No.	Conc. (wt%)	Classification
1	butane (containing < 0.1 % butadiene (203-450-8))		203-448-7	106-97-8	10 - 20 %	F+,R12
2	propane		200-827-9	74-98-6	10 - 20 %	F+,R12
3	ethanol, ethyl alcohol		200-578-6	64-17-5	20 - 40 %	F,R11
4	l-menthol		218-690-9	2216-51-5	1 - 10 %	Xi,R38

Explanation of symbols: T+=highly toxic, T=toxic, C=corrosive, Xn=harmful, Xi=irritant E=Explosive, O=Oxidising, F+=Extremely flammable, F=Highly flammable, N=Dangerous for the environment, Cancer=Carcinogenic, Mut=Mutagenic, Rep=Toxic for reproduction, Conc.=Concentration

### INGREDIENT COMMENTS

R-phrases mentioned in section 3 are listed up in section 16 with complete text.

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### 4. FIRST AID MEASURES



#### GENERAL

Get medical attention if any discomfort continues. Show this safety data sheet, if possible.

#### INHALATION

Fresh air and rest.

#### SKIN CONTACT

Wash skin with soap and water.

#### EYE CONTACT

Rinse thoroughly with water until the irritation subsides.

#### INGESTION

Drink a few glasses of water or milk. Do not induce vomiting.

### 5. FIRE-FIGHTING MEASURES



#### EXTINGUISHING MEDIA

Fire may be extinguished using powder, foam or carbon dioxide (CO<sub>2</sub>).

#### FIRE AND EXPLOSION HAZARDS

Pressurized container: Must not be exposed for temperatures above 50 °C. Pressure chamber may explode in the event of fire.

#### PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS

Gases that are dangerous to health are formed in a fire. Avoid breathing fire vapours. Firemen must wear closed-circuit breathing equipment and full protective suits.

#### OTHER INFORMATION

Containers close to fire should be removed immediately or cooled with water. Do not allow extinguishing water or spillage to run out into the sewage system.

### 6. ACCIDENTAL RELEASE MEASURES



#### PERSONAL PRECAUTIONS

Use only in well-ventilated areas. Wear necessary protective equipment.

#### SAFETY ACTIONS TO PROTECT EXTERNAL ENVIRONMENT

Must not be discharged into the sewage system.

#### METHODS FOR CLEANING UP

Move the leaking container to a segregated area. Major spillage should be collected with suitable absorption agents and dumped or incinerated in accordance with relevant regulations. Soak up with sawdust, sand or other inert absorption material. Smaller spill: Wipe away with paper or textile fabric.

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### 7. HANDLING AND STORAGE



#### HANDLING PRECAUTIONS

Extremely flammable. Aerosols can explode when heated to temperatures over 50 °C.

#### HANDLING ADVICE

Keep out of the reach of children. Do not spray on a naked flame or any incandescent material. Do not pierce or burn, even after use. Observe normal care. Avoid all unnecessary contact with chemicals.

#### STORAGE

Pressurized container: Must not be exposed for temperatures above 50 °C. Not to be stored in direct sunlight. Keep in a dry, cool and well-ventilated place. Should not be stored in the immediate vicinity of easily combustible substances. Keep away from sources of ignition - No smoking. Keep away from heat, sparks and open flame. Take precautionary measures against static discharges.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION



#### EXPOSURE CONTROL

Use only in well-ventilated areas. All handling to take place in well ventilated area. Provide eyewash, quick drench. Wash your hands thoroughly after handling and before eating or smoking.

#### RESPIRATORY PROTECTION

No respirator is normally needed.

#### EYE PROTECTION

Eye protection is normally not needed.

#### HAND PROTECTION

Hand protection is normally not needed.

#### PROTECTIVE CLOTHING

Protective clothing is normally not needed.

#### OEL value

Ingredient name	Cas nr.	Interval	ppm	mg/m3	Year	Notification
ethanol, ethyl alcohol	64-17-5	8 h	500,0	1000,0	1993	
ethanol, ethyl alcohol	64-17-5	15 min.	1000,0	1900,0	1993	

#### OTHER INFORMATION REGARDING LIMIT VALUES AND MONITORING

The OEL values are based on the Swedish regulation, AFS 2005:17 Occupational exposure limit values and measures against air contaminants.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES



**Physical State** Aerosol.  
**Colour** Red.  
**Odour** Menthol.  
**Solubility** Water soluble.

#### Physical and chemical parameters

Parameter	Value/unit	Method/reference	Observation
Density	~ 0,71 g/ml		

### 10. STABILITY AND REACTIVITY



#### STABILITY

Stable under recommended storage and handling conditions.

#### CONDITIONS TO AVOID

Avoid high temperatures and direct sunlight.

#### MATERIALS TO AVOID

No dangerous reactions known.

#### HAZARDOUS DECOMPOSITION PRODUCTS

No dangerous reactions known.

### 11. TOXICOLOGICAL INFORMATION



#### INHALATION

High concentrations may cause:Irritation of nose, throat and airway.May cause headache, dizziness, tiredness and nausea.

#### SKIN CONTACT

May be slightly irritating.Protracted or repeated exposure may cause drying and cracking of the skin.

#### EYE CONTACT

Irritant of eyes and mucous membranes.

#### INGESTION

Ingestion may cause:Smarting in mouth and throat.Stomach pain.Nausea and vomiting.

### 12. ECOLOGICAL INFORMATION



#### OTHER INFORMATION

Not regarded as dangerous for the environment.

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### 13. DISPOSAL CONSIDERATIONS



#### GENERAL REGULATIONS

The company is member of REPA.

Empty packaging is sent for recycling. Spillages and not empty containers are treated as dangerous waste. Observe local regulations.

#### CATEGORY OF WASTE

Waste code 14 06 03\*

Empty containers; waste code 15 01 04

### 14. TRANSPORT INFORMATION



Classified as Dangerous Goods:



Yes



No



Not assessed

UN No.: 1950

#### TRADE NAME AND DESCRIPTION

AEROSOLS

#### ADR/RID

Class: 2,5F

Packing group:

Danger form: 2.1

#### IMDG

Class: 2.1

Packing group:

Sub Risk: no

EMS: F-D,S-U

Marine Pollutant: no

#### IATA

Class: 2.1

Packing group:

Sub Risk: no

Label: 2.1

#### OTHER INFORMATION

Aerosols may be carried domestically as limited quantities (LQ2) as long as each package does not exceed 30 kg in cardboard boxes or 20 kg on trays with shrink- or stretch wrapping. Each package shall be marked with "UN 1950". These markings shall be displayed within a diamond-shaped area surrounded by a line that measures at least 100 mm x 100 mm.

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### 15. REGULATORY INFORMATION



Extremely  
flammable

#### R-PHRASES

Nr.	R-Phrase text
R12	Extremely flammable.

#### S-PHRASES

S51 Use only in well-ventilated areas  
S23 Do not breathe spray.

#### OTHER LABELLING PHRASES

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of the reach of children.

### 16. OTHER INFORMATION



#### LIST OF RELEVANT R-PHRASES

Nr.	R-Phrase text
R11	Highly flammable.
R12	Extremely flammable.
R38	Irritating to skin.

#### TRAINING ADVICE

The information in this MSDS shall be available to those who handle the product.

#### REVISION HISTORY

Version	Rev. date	Responsible	Changes
0.0.1	19/05/2009	J. Mattsson	-