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## Safety Data Sheet

according to 1907/2006/EC, Article 31

Version number 1

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

#### 1.1 Product Identifier:

Trade name: MiratraySpray / 200 ml

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

No further relevant information available.

**Application of the substance/the preparation:** Adhesive and adhesive spray.

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

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**1.4 Emergency Telephone:** Poisons Information Centre (National) 13 11 26

### SECTION 2: Hazards Identification

#### 2.1 Classification of the substance or mixture:

**Classification according to Regulation (EC) No 1272/2008**



GHS02 Flame

Flam. Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

## 2.2 Label Elements

### Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

**Hazard pictograms** GHS02

**Signal word** Danger

### Hazard statements

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

H412 Harmful to aquatic life with long lasting effects.

### Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

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.

P211 Do not spray on an open flame or other ignition source.

P273 Avoid release to the environment.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122 °F

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

### Additional information:

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.

Buildup of explosive mixtures possible without sufficient ventilation.

## 2.3 Other hazards

### Results of PBT and vPvB assessment

**PBT:** Not applicable.

**vPvB:** Not applicable.

## SECTION 3: Composition/information on ingredients

### 3.2 Chemical characterization: Mixtures

**Description:** Mixture of substances listed below with nonhazardous additions.

### Dangerous components:

CAS: 287-92-3

cyclopentane

25-50%

EINECS: 206-016-6



Flam. Liq. 2, H225; Aquatic Chronic 3, H412

Index number: 601-030-00-2

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**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away

**6.2 Environmental precautions:**

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/surface or ground water.

**6.3 Methods and material for containment and cleaning up:**

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

**6.4 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.

**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling** Open and handle receptacle with care.

**Information about fire – and explosion protection:**

Do not spray onto a naked flame or any incandescent material.

Keep ignition sources away – Do not smoke.

Protect against electrostatic charges.

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

**7.2 Conditions for safe storage, including any incompatibilities****Storage:****Requirements to be met by storerooms and receptacles:**

Store in a cool location.

Observe official regulations on storing packagings with pressurised containers.

**Information about storage in one common storage facility:** Not required.

**Further information about storage conditions:**

Keep container tightly sealed.

Do not seal receptacle gas tight.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

**7.3 Specific end use(s)** No further relevant information available.

## SECTION 8: Exposure and controls/personal protection

**Additional information about design of technical facilities:** No further data: see item 7.

### 8.1 Control parameters

#### Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of material with critical values that have to be monitored at the workplace.

**Additional information:** The lists valid during the making were used as basis.

### 8.2 Exposure controls

#### Personal protective equipment:

##### General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

**Respiratory protection:** Use suitable respiratory protective device in case of insufficient ventilation.

**Protection of hands:** Not required.

#### 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.

**For the permanent contact gloves made of the following materials are suitable:** Butyl / Viton, Layer thickness: 0.6mm, Breakthrough time: >480 min.

#### Eye protection:



Tightly sealed goggles

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### General Information

##### Appearance:

<b>Form:</b>	Aerosol
<b>Colour:</b>	Reddish
<b>Odour:</b>	Characteristic
<b>Odour threshold:</b>	Not determined
<b>pH-value:</b>	Not determined
<b>Change in condition</b>	
<b>Melting point/Melting range:</b>	Not determined
<b>Boiling point/Boiling range:</b>	-44°C

**9.1 continued**

<b>Flash point:</b>	~ - 80°C (closed cup)
<b>Flammability (solid, gaseous):</b>	Not applicable
<b>Ignition temperature:</b>	365°C
<b>Decomposition temperature:</b>	Not determined
<b>Self igniting:</b>	Product is not selfigniting.
<b>Danger of explotion:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
<b>Explosion limits:</b>	
<b>Lower:</b>	1, 5 % Vol %
<b>Upper:</b>	10,9 Vol %
<b>Vapour pressure at 20°C:</b>	~ 2100 hPa
<b>Density at 20°C:</b>	0.78 g cm <sup>3</sup>
<b>Relative density</b>	Not determined
<b>Vapour density</b>	Not determined
<b>Evaporation rate</b>	Not applicable
<b>Solubility in / Miscibility with</b>	
<b>Water:</b>	Not miscible or difficult to mix
<b>Partition coefficient (n-octanol/water):</b>	Not determined
<b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined
<b>Kinematic:</b>	Not determined
<b>Solvent content:</b>	
<b>Organic solvents:</b>	85,35 %
<b>VOC (EC)</b>	85,35 %
<b>Solids content:</b>	0,01 %
<b>9.2 Other information</b>	No further relevant information available

**SECTION 10: Stability and reactivity**

**10.1 Reactivity** No hazardous reactions known when used according to instructions.

**10.2 Chemical stability**

**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

**10.3 Possibility of hazardous reactions:** No dangerous reactions known.

**10.4 Conditions to avoid:** No further relevant information available.

**10.5 Incompatible materials:** No further relevant information available.

**10.6 Hazardous decomposition products:** No dangerous decomposition products known.

**SECTION 11: Toxicology information****11.1 Information on toxicological effects****Acute toxicity:****Primary irritant effect:****On the skin:** No irritant effect**On the eye:** No irritating effect.**Sensitization:** No sensitizing effects known**SECTION 12: Ecological information****12.1 Toxicity****Aquatic toxicity:** No further relevant information available.**12.2 Persistence and degradability:** No further relevant information available.**12.3 Bioaccumulative potential:** No further relevant information available.**12.4 Mobility in soil:** No further relevant information available.**Ecotoxicological effects:****Remark:** Harmful to fish**Additional ecological information:** Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Harmful to aquatic organisms.**12.5 Results of PBT and vPvB assessment****PBT:** Not applicable, **vPvB:** Not applicable**12.6 Other adverse effects:** No further relevant information available.**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

**European waste catalogue**

07 06 04\* other organic solvents, washing liquids and mother liquors.

15 01 04 metallic packaging

**Uncleaned packaging:****Recommendation:** Disposal must be made according to official regulations**SECTION 14: Transport information****14.1 UN-Number****ADR, IMDG, IATA** 1950**14.2 UN proper shipping name****ADR** 1950 AEROSOLS

**14.2 continued**

**IMDG** AEROSOLS  
**IATA** AEROSOLS, flammable

**14.3 Transport hazard class(es)****ADR**

**Class** 2 5F Gases.

**Label** 2.1

**IMDG, IATA**

**Class** 2.1

**Label** 2.1

**14.4 Packing group**

**ADR, IMDG, IATA** Void

**14.5 Environmental hazards:**

**Marine pollutant:** No

**14.6 Special precautions for user** Warning: Gases.

**Danger code (Kemler):** -

**EMS Number:** F-D.S-U

**14.7 Transport in bulk according to Annex II of**

**MARPOL73/78 and the IBC Code** Not applicable

**Transport/Additional information:****ADR**

**Limited quantities (LQ)** 1 Litre

**Excepted quantities (EQ)** Code: E0

Not permitted as Excepted Quantity

**Transport category** 2

**Tunnel restriction code** D

**IMDG**

**Limited quantities (LQ)** 1L

**Excepted quantities (EQ)** Code: E0

Not permitted as Excepted Quantity

**UN "Model Regulation":** UN1950, AEROSOLS, 2.1

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

No further relevant information available.

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

**SECTION 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.

**Relevant phrases**

- H220 Extremely flammable gas.  
H225 Highly flammable liquid and vapour.  
H280 Contains gas under pressure: may explode if heated.  
H412 Harmful to aquatic life with long lasting effects.

**Abbreviations and acronyms:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

Flam. Gas 1: Flammable gases, Hazard Category 1

Flam. Aerosol 1: Flammable aerosols, Hazard Category 1

Press. Gas: Gases under pressure: Compressed gas

Flam. Liq. 2: Flammable liquids, Hazard Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment – Chronic Hazard, Category 3

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