

# Safety Data Sheet according to Regulation (EC) No1907/2006

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## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifiers: Mirror mist for plastic

Type of substance: CLP Mixture

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

For hobby of adults.

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

Pentacolor Ltd.

1103 Budapest, Gyömrői út 86.

tel.: +36-1-260-7477

fax: +36-1-262-1345

### 1.4 Emergency telephone number:

Egészségügyi Toxikológiai Tájékoztató Szolgálat

Address: 1096, Budapest, Nagyváradi tér 2., Hungary

tel: 06/80/20 11 99 (green number), 06/1/ 476 64 64 (during working hours)

## 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture: Classification according to Regulation (EC) No 1272/2008

Flammable Liquid- Category 2	H225
Eye Irrit. 2	H319
STOT SE 3	H336

### 2.2. Label elements:

Labelling according to Regulation (EC) No 1272/2008

Contains: ethyl acetate

### Hazard pictograms:



Signal Word: Danger

### Hazard Statements:

H225 Highly flammable liquid and vapour

H319 Causes serious eye irritation

H336 May cause drowsiness or dizziness

**Precautionary Statements**

P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking

P261 Avoid breathing dust/fume/gas/mist/vapours/spray

P280 Wear protective gloves/protective clothing/eye protection/face protection

P304+340 IF INHALED: Remove victim to fresh air and keep at rest in a position

P305+351+338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing

P403+235 Store in a well ventilated place. Keep cool ...

**2.3 Other hazards:**

The ingredients are not PBR or vPvB substances

Vapours may form explosive mixtures with air.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS****3.2 Mixture:**

The details below includes all impurities and by-products that contribute to the product classification or that have an occupational exposure limits.

Hazardous Substance(s): isopropanol

concentration: > 90%

EC-No.: 200-661-7

CAS-No.: 67-63-0

Index-No. : 603-117-00-0

Classification according to Regulation (EC) No 1272/2008 : Flam. Liq. 2 H225, Eye Irrit. 2 H319  
STOT SE 3 H336

Hazardous Substance(s): ethyl acetate

concentration: < 5%

EC-No.: 205-500-4

CAS-No.: 141-78-6

Index-No. : 607-022-00-5

Reg.No.: 01-2119475103- 46-0000

Classification according to Regulation (EC) No 1272/2008 : Flam. Liq. 2 H225, Eye Irrit. 2 H319  
STOT SE 3 H336, EUH066

Hazardous Substance(s): aluminium (stabilized)

concentration: <= 0,5 %

EC-No.: 231-072-3

CAS-No.: 7429-90-5

Index-No. : 013-002-00-1

Classification according to Regulation (EC) No 1272/2008: Flam. Sol. 1 H228, Water-react 2 H261

Refer to Section 16 for full details of the risk phrases, hazard statements and Notas.

**4. FIRST AID MEASURES****4.1 Description of necessary first-aid measures:****General:**

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

**Inhalation:**

Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Give nothing by mouth. If unconscious place in recovery position and seek medical advice.

**Eye contact:**

Remove contact lenses, irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart and if necessary seek medical advice.

**Skin contact:**

Remove contaminated clothing. Wash skin thoroughly with soap and water. In case of complaints contact your doctor. Use of skin cream recommended.

**Ingestion:**

If accidentally swallowed obtain immediate medical attention. Do **NOT** induce vomiting.

Rinse mouth with water. If conscious, drink plenty of water

**4.2 Most important symptoms and effects, both acute and delayed:**

Vapour may cause headache, dizziness, and of a higher concentration may cause faint.

Defat the skin.

May cause central nervous system depression.

**4.3 Indication of immediate medical attention and special treatment needed:**

Symptomatic treatment.

**5. FIREFIGHTING MEASURES****5.1 Extinguishing media****Suitable extinguishing media**

Alcohol resistant foam, CO<sub>2</sub>, powders, water spray, sand

Not to be used : High power water jet.

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

In case of fire carbon monoxide, carbon dioxide.

Vapor is heavier than air, and spread in the soil.

Vapours may form explosive mixtures with air.

**5.3 Advice for firefighters**

Wear self-contained breathing apparatus and protective clothing.

Remove all sources of ignition.

Cool closed containers exposed to fire with water spray.

Take precautionary measures against static discharge.

Do not allow run-off from fire fighting to enter drains or water courses.

**6. ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

Avoid contact with eyes, skin and cloth. Avoid breathing vapours. Provide good ventilation of working area. Vapor is heavier than air, and spread in the soil. From remote ignition source can ignite.

**6.2 Environmental precautions**

Do not allow to enter drains or watercourses. If the product contaminates rivers and lakes or drains inform respective authorities.

**6.3 Methods and materials for containment and cleaning up**

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth and place in container for disposal according to local regulations (see section 13). Ensure adequate ventilation. Keep away from sources of ignition. Turn off electrical equipments.

**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.

**7. HANDLING AND STORAGE****7.1 Precautions for safe handling**

Avoid contact with eyes, skin and cloth . Avoid the inhalation of dust, particulates and spray mist arising from the application of this preparation. Smoking, eating and drinking should be prohibited in application area. Wash hands before breaks and at the end of work. Take precautionary measures against static discharge. Ensure adequate ventilation.

For personal protection see Section 8.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in accordance with local rules & regulations

Store in a dry, well ventilated place away from sources of heat and direct sunlight. Keep away from sources of ignition. Keep out of reach of children. Keep away from oxidizing agents. Keep away from food, drink. storage temperature: 5-25 C

Packaging materials used for storage: stainless steel.

Storage Class 3 flammable liquids

**7.3 Specific end uses**

No further relevant information available.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters****Components with workplace control parameters****Isopropanol:**

UK EH40 WEL, 2007 TWA: 400 ppm, 999 mg/m<sup>3</sup>, STEL: 500 ppm, 1250 mg/m<sup>3</sup>

**Derived No Effect Level (DNEL)****Ethyl acetate CAS-No. 141-78-6**

DNEL: Workers, Long-term - systemic effects, Skin contact 63 mg/kg bw/day

DNEL: Workers, Long-term - systemic effects, Inhalation 34 mg/m<sup>3</sup>

DNEL: Workers, Long-term - local effects, Inhalation 734 mg/m<sup>3</sup>

DNEL: Workers, Acute systemic and local effects, Inhalation 1468 mg/m<sup>3</sup>

DNEL: Consumers, Long-term - systemic and local effects , Inhalation 367 mg/m<sup>3</sup>

DNEL: Consumers, Acute systemic and local effects, Inhalation 734 mg/m<sup>3</sup>

DNEL: Consumers, Long-term - systemic effects, ingestion 4,5 mg/kg bw/day

DNEL: Consumers, Long-term - systemic effects, Skin contact 37 mg/kg bw/day

**Predicted No Effect Concentration (PNEC)****Ethyl acetate CAS-No. 141-78-6**

Fresh water: 0,26 mg/l

Marine water: 0,026 mg/l

Int. release: 0,34 mg/l

Sewage treatment plant (STP): 650 mg/l

Sediment (Fresh water) Related to, dry weight: 0,34 mg/l

Sediment (Marine water) Related to, dry weight: 0,034 mg/l

Soil Related to, dry weight: 0,22 mg/kg

**8.2 Exposure controls****Appropriate engineering controls**

Provide adequate ventilation. Use only non-sparking electrical equipment.

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Do not eat, drink or smoke when using this product.

**Personal protective equipment****Eye/face protection**

Use safety eyewear designed to protect against splash of liquids.(EN 166) Keep ready eye wash device.

**Skin protection**

For prolonged or repeated handling, use gloves. Nitrile,nitrile rubber (min. thickness 0,35 mm), butyl rubber, polychloroprene (min. thickness 0,5 mm) (EN374)

Can not be used: natural rubber natural latex, PVC

**Body Protection**

Solvent-resistant protective clothing, apron, cotton-based garments, antistatic protective boots.

Synthetic fiber-based clothing should not be used because of the risk of electrostatic charging and sparking. Remove contaminated clothing.

**Respiratory protection**

If ventilation is insufficient, suitable respiratory protection must be provided (A filter)

**Environmental exposure controls**

Wastes containing volatile organic materials are safely stored in a closed container.

The material to be handled carefully in order to reduce to the minimum the emissions.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance Form: liquid

Colour: metal grey

Odour: characteristic

Odour Threshold: not determined

pH: not determined

Initial boiling point and boiling range: 82-83 C

Melting point/freezing point Melting point/range: no data

Flash point: 13 C

Ignition temperature: 425 C

Evaporation rate: not determined

Flammability (solid, gas): not applicable

Danger of explosion: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

Upper explosion limit: 12 V%

Lower explosion limit: 2 V%

Vapour pressure: 98.3 hPa (20 C)

Vapour density: 2.1 (air = 1)

Relative density: 0.8 g/cm<sup>3</sup>

Water solubility: soluble

Partition coefficient: noctanol/water: log Pow: 0,05

Autoignition temperature: not determined

Decomposition temperature: not determined

Viscosity: 42 hPa (20 C)

### 9.2 Other safety information

No data available

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

Vapor is heavier than air, and spread in the soil.

From remote ignition source can ignite.

### 10.2 Chemical stability

Stable under recommended storage and handling conditions.

### 10.3 Possibility of hazardous reactions

In presence of strong oxidizing agents highly flammable liquid and vapour

In presence of phosgene isopropyl chloroformate, and hydrogen chloride is formed.

In presence of iron salts explosive thermal decomposition can occur.

In contact with in palladium dissolved hydrogen can ignite in air.

### 10.4 Conditions to avoid

Heat, flames and sparks, static electricity.

### 10.5 Incompatible materials

Strong oxidizing agents.

### 10.6 Hazardous decomposition products

Under normal conditions no decomposition.

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

**Product:**

#### **Skin corrosion/irritation**

Based on available data, the classification criteria are not met

#### **Serious eye damage/eye irritation**

Causes serious eye irritation

#### **Respiratory or skin sensitization**

Based on available data, the classification criteria are not met

**Germ cell mutagenicity**

Based on available data, the classification criteria are not met

**Carcinogenicity**

Based on available data, the classification criteria are not met

**Reproductive toxicity**

Based on available data, the classification criteria are not met

**Specific target organ toxicity - single exposure**

May cause drowsiness or dizziness

**Specific target organ toxicity - repeated exposure**

Based on available data, the classification criteria are not met

**Aspiration hazard**

Based on available data, the classification criteria are not met

**Components:****Isopropanol:**

LD50 Oral – rat – 1 h - > 2000 mg/kg

LC50 Inhalation - less than 400 ppm concentration slightly irritate the upper airways. In higher concentrations narcosis, drowsiness, incoordination, hypotension, nausea, vomiting occurs.

LD50 Dermal -24h - rabbit > 2000 mg/kg

**Ethyl acetate**

LD50 Oral - rat - 5620 mg/kg

LD50 Oral - rabbit - 4934 mg/kg

LC50 Inhalation -2 h – rat - 45 mg/l

LC50 Inhalation -6 h – rat > 22.5 mg/l

LD50 Dermal -24h - rabbit >2000 mg/kg

**Other informationen:****Isopropanol:**

Effects on the central nervous system and upper respiratory tract.

**12. ECOLOGICAL INFORMATION****12.1 Toxicity**

LC50 Isopropanol – fish – 48 h - > 100 mg/l

EC50 Isopropanol - Daphnia magna – 48 h - > 100 mg/l

EC50 Isopropanol – algae - 72 h > 100 mg/l

LC50:Ethyl acetate – fish – 96 h – 328 mg/l

LC50 Ethyl acetate- cancer - 48 h 679 mg/l

EC 50 Ethyl acetate Algae -96 h - 2500 mg/l

EC 50 Ethyl acetate Daphnia magna - 48 h - 165 mg/l

**12.2 Persistence and degradability**

Isopropanol: Readily biodegradable

In water > 70%, 10 days

In the air: does not cause damage to the ozone layer

In soil and sediment: no data available

Ethyl acetate: Readily biodegradable

In water: 69% 20 days

In the air: does not cause damage to the ozone layer

In soil and sediment: no data available

**12.3 Bioaccumulative potential**

Isopropanol: no data

Ethyl acetate: Log kow: <=3 low bioaccumulation

**12.4 Mobility in soil**

Isopropanol: no data

Ethyl acetate: Log Pow: 0.68

**12.5 Results of PBT and vPvB assessment**

Contains no heavy metals and polychlorinated hydrocarbons.

**12.6 Other adverse effects**

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

**Additional ecological information:**

**General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): Less hazardous for water

**13. DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

Wastes and emptied containers should be disposed of in accordance with local regulations.

**Waste key number:** 14 06 03\* - other solvents and solvent mixtures

**14. TRANSPORT INFORMATION****14.1 UN number**

ADR/RID, IMDG, IATA: 1219

**14.2 UN proper shipping name**

ADR/RID, IMDG, IATA: UN 1219, ISOPROPYLALCOHOL

**14.3 Transport hazard class(es)**

ADR/RID: Class 3, Code: F1

IMDG: Class 3, Code : 3

IATA: Class 3

**14.4 Packing group**

ADR/RID, IMDG, IATA: II

**14.5 Environmental hazards**

Marine Pollutant No

**14.6 Special precautions for user****Land transport (ADR/RID)**

Warning board: ADR/RID

Hazard label 3

Tunnel restriction code: D/E

**Sea transport (IMDG)**

EmS: F-E, S-D

Special provisions -

**Air transport (IATA)**

Special provisions PAX: 353, CAO: 364

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

No data

**14.8 Special precautions for user**

No data

**15. REGULATORY INFORMATION**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

REACH Appendix XVII.: The mixture doesnot contain SVHC material.

Seveso: 7. b - flammable liquids class

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

According to the local regulation.

**15.2 Chemical Safety Assessment**

For this product a chemical safety assessment has not been carried out.

**16. OTHER INFORMATION****Data Sources:**

The previously-classified hazardous materials list

Internet database of chemical substances

Safety data sheets of components

## LIST OF RELEVANT R-PHRASES, H-PHRASES IN SECTION 3.

**H-Phrases**

H225 Highly flammable liquid and vapour  
H228 Flammable solid  
H261 In contact with water releases flammable gas  
H319 Causes serious eye irritation  
H336 May cause drowsiness or dizziness

This product Safety Data Sheet provides health, safety, and regulatory information. The information contained in this Safety Data Sheet is based on data available to us at the date of issue , and is provided in good faith, and believed to be accurate and reliable at the date of issue, however, no warranty, express or implied is provided. The product is to be used in applications consistent. For any other uses, exposures should be evaluated so that the appropriate handling practices and training programs can be established to ensure safe working conditions and operations. It is the buyer's/user's responsibility to satisfy itself that the product is suitable for the intended use, and to ensure that its activities comply with all federal, state, provincial, or local laws and regulations. Regulatory requirements are subject to change and may differ between European Member States and Nations. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information.