

Article number : 203016  
Trade name : Mirapont Agent Plus  
Print date : 20.09.13

Last revision date : 18.09.13

## 1. Identification of the substance/ mixture and the company / undertaking

Product: Mirapont Agent Plus

Details of supplier: Hager & Werken GmbH & Co. KG  
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Postfach 10 06 54 D-47006 Duisburg  
Telefon: +49 (0)203 99 26 9 – 0  
[info@hagerwerken.de](mailto:info@hagerwerken.de)  
[www.hagerwerken.de](http://www.hagerwerken.de)

Emergency Telephone: +49 (0)203 99 26 9 – 0

## 2. Possible hazards

### Classification of the substance or mixture:

Indications of dangers: extremely flammable, irritating, dangerous for environment

### Symbols:

F+ extremely flammable  
Xi irritating  
N dangerous for environment

### R-Sätze:

R12 extremely flammable  
R38 irritating to skin  
R50/53 very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment  
R67 vapours may cause drowsiness and dizziness

### Label elements:

Danger symbols: F+ - extremely flammable; Xi – irritating; N – dangerous for environment



F+ - extremely flammable; Xi – irritating N – dangerous for environment

### R-Phrases:

R12 extremely flammable  
R38 irritating to skin  
R50/53 very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment  
R67 vapours may cause drowsiness and dizziness

### S-Sätze:

S2 keep out of the reach of children

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- S9 keep container in a well-ventilated place
- S16 keep away from sources of ignition - No smoking
- S 23 do not breathe vapour
- S46 if swallowed, seek medical advice immediately and show this container or label
- S51 use only in well-ventilated areas

**Special labelling of certain mixtures:**

Pressurized container. Keep out of the reach of children. Protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn after use. Keep away from sources of ignition – No smoking.

**3. Composition / Information of ingredients**

Hazardous ingredients according to regulation 67/548/EEC and their changes or substances for which an exposure limit is required:

**50% - 60% Heptane [and Isomer]**

N. 67/548/CEE: 601-008-00-2      CAS: 142-82-5      EC:205-563-8  
F, Xn, Xi, N; R11-38-50-53-65-67

**20% - 25% Propane**

N. 67/548/CEE: 601-003-00-5      CAS : 74-98-6      EC: 200-827-9  
F+, R12; maximum concentration on workplace according to European Community

**10% - 12,5% Butane**

N. 67/548/CEE: 601-004-00-0      CAS: 106-97-8      EC: 203-448-7  
F+, R12; maximum concentration on workplace according to European Community

**3% - 5% Alkane C10**

CAS: 124-18-5      EC: 204-686-4  
Xn; R10-65-66

**3% - 5% Isobutane**

N. 67/548/CEE: 601-004-00-0      CAS: 75-28-5      EC: 200-857-2  
F+, R12; maximum concentration on workplace according to European Community

**4. First aid measures**

- After contact with skin:** After contact with skin, wash. Consult a doctor immediately with water. Also rinse areas thoroughly, which might have had contact. Change contaminated clothing. Store and wash clothing apart from other cloths.
- After contact with eyes:** Rinse immediately with eye-bath or water. Consult a doctor immediately.
- After ingestion:** Induce vomiting. Consult a doctor c Show label.
- After inhalation:** Provide fresh air. In case of an accident or if you feel unwell, seek medical advice immediately (show safety data sheet if possible).

**5. Fire fighting measures**

**Extinguishing media:** CO<sub>2</sub>, sand, extinguishing powder.

**Extinguishing media that must not be used for safety reasons:** none

**Danger of ignition:** Spray containers can explode near sources of heat.

**Advice for fire fighters:** Do not breath in vapours, protect respiratory system. Cool containers near fire with water.

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## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures:** Wear safety gloves and suitable cloths. Remove sources of ignition.

**Environmental precautions:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Extinguish flames, do not smoke. Inform authorities, in case substance reaches public water supplies.

**Methods and materials for containment and cleaning up:** Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.

## 7. Handling and storage

**Precautions for safe handling:** Avoid any contact and prevent inhaling vapour (see 8). Keep ignition sources away - Do not smoke.

**Incompatibilities:** none

**Storage:** Well ventilated areas. Keep away from flames and sources of ignition..Protect from sunlight.

**Requirements on storage rooms and vessels:** Keep in cool and well ventilated areas.

## 8. Exposure controls/ personal protection

**Protective measures:** Sufficient ventilation for rooms in which material is stored or used.

**Respiratory protection:** Wear suitable respiratory protection

**Hand protection:** Wear protective gloves.

**Eye protection:** not necessary when handled according to instructions

**Skin protection:** not necessary when handled according to instructions

**Hygiene requirements:** normal hygiene measures.

**Exposure limit:**

Heptane [and Isomers]:

Emission 8 hours: 2085 mg/m<sup>3</sup> - 500ppm (TLV-TWA):400 ppm – 1639.26 mg/m<sup>3</sup> (TLV-TWA): 500 ppm - 2049,08 mg/m<sup>3</sup>

Propane: (TLV-TWA): 1000 ppm

Butane: (TLV-TWA): 1000 ppm

Isobutane: (TLV-TWA): 1000 ppm

## 9. Physical and chemical properties

**Form:** Aerosol

**Colour:**

**Odour:** typically like solvent

**PH-Wert:** n/a

**Flash point:** < 0° C

**Ignition temperature:** 400°C (Gas)

**Hydrphile:** no

**Lipophilicity:** complete

**Density:** > 1

## 10. Stability and reactivity

**Reactivity:** Stable at recommended storage conditions

**Chemical stability:** Stable at recommended storage conditions

**Possible hazardous reactions:** none

**Conditions to avoid::** In any case keep away from sources of ignition

**Hazardous decomposition products:** non

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### 11. Toxicological information

There is no toxicological data available for the composition. The concentrations of the individual ingredients have to be referred to when assessing toxicological characteristics due to possible exposition to the composition. Further information can be obtained under 3).

### 12. Ecological information

The contained paraffinic hydrocarbons can be regarded as degradable in water and air. They mainly spread in the atmosphere. Treat product according to regulations, do not dispose into the environment.

List of potentially polluting ingredients:

50 % - 60 % Heptan [and Isomer] N. 67/548/CEE: 601-008-00-2 Einecs 205-563-8 CAS: 142-82-5R

R50/53 Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment

### 13. Disposal considerations

Do not empty into drains or the aquatic environment. Waste disposal to official state regulations.

### 14. Transport information

ADR class: 2.5°F CAP.2.2.2.1.6 UN 1950

ADR-packing group: III

IATA class: 2.1

IMDG class: 2 Aerosol UN 1950

IMDG side: 2102

### 15. Regulatory Information

Guideline (CE) No.. 1907/2006 (REACH)

Gefahrensymbole: **F+**, extremely flammable - **Xi**, irritant – **N**, dangerous for environment

#### R-Phrases:

**R12** extremely flammable

**R67** Vapours may cause drowsiness and dizziness

**R38** Irritating to skin

**R50/53** Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment

#### S-Phrases:

**S2** Keep out of the reach of children

**S9** Keep container in a well-ventilated place

**S16** Keep away from sources of ignition - No smoking

**S23** Do not breathe vapour

**S46** If swallowed, seek medical advice immediately and show this container or label

**S51** Use only in well-ventilated areas

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.

### 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.