

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 06.03.2014 Revision: 11.03.2015

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

- **Product identifier**
- **Trade name:** Occlu Spray Plus
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the preparation:** Coating material
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Hager Worldwide, Inc  
441 19<sup>th</sup> St SE  
Hickory, NC 28602  
Tel.: (800) 328-2335  
Fax.: (800) 573-9392
- **Further information obtainable from:** Hager Worldwide
- **Emergency telephone number:** (800) 328-2335

### 2. Hazards identification

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



GHS02 flame

Flam. Aerosol 1 H222 Extremely flammable aerosol.  
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

**Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



F+; Extremely flammable

R12: Extremely flammable.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Warning! Pressurized container.

· **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

· **Label elements**

· **Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

· **Code letter and hazard designation of product:**

F+ Extremely flammable

· **Risk phrases:**

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 06.03.2014 Revision: 11.03.2015

12 Extremely flammable.

52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### Safety phrases:

2 Keep out of the reach of children.

3 Keep in a cool place.

16 Keep away from sources of ignition - No smoking.

29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

33 Take precautionary measures against static discharges.

(Contd. on page 2)

43 In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water.

46 If swallowed, seek medical advice immediately and show this container or label.

51 Use only in well-ventilated areas.

23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).

### Special labelling of certain preparations:

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.

Buildup of explosive mixtures possible without sufficient ventilation.

· **Classification in accordance with Directive 75/324/EEC:** Extremely flammable

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.




· **vPvB:** Not applicable.

## 3. Composition/information on ingredients

### Chemical characterization: Mixtures

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



### Dangerous components:




CAS: 106-97-8
EINECS: 203-448-7
butane
 F+ R12
 Flam. Gas 1, H220;  Press. Gas, H280
50-100%








## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 06.03.2014 Revision: 11.03.2015

CAS: 74-98-6
EINECS: 200-827-9
propane
 F+ R12
 Flam. Gas 1, H220; Press. Gas, H280
10-25%

CAS: 75-28-5
EINECS: 200-857-2
isobutane
 F+ R12
 Flam. Gas 1, H220;  Press. Gas, H280
2.5-10%

CAS: 109-66-0
EINECS: 203-692-4
pentane
 Xn R65;  F+ R12;  N R51/53
R66-67
 Flam. Liq. 2, H225;  Asp. Tox. 1, H304;  Aquatic Chronic 2,
H411;  STOT SE 3, H336
2.5-10%

**Additional information:** For the wording of the listed risk phrases refer to section 16.

### 4. First Aid Measures

· **Description of first aid measures**

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**

## **Safety data sheet**

**according to 1907/2006/EC, Article 31**

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No further relevant information available.

### **5. Firefighting measures**

#### **Extinguishing media**

- **Suitable extinguishing agents:** CO<sub>2</sub>, sand, extinguishing powder. Do not use water.
  - **For safety reasons unsuitable extinguishing agents:** Water with full jet
  - **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

### **6. Accidental release measures**

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

Wear protective equipment. Keep unprotected persons away.

#### · **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.

#### · **Methods and material for containment and cleaning up:**

Ensure adequate ventilation.  
Do not flush with water or aqueous cleansing agents

#### · **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**

#### · **Handling:**

· **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.

#### · **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 pressurized 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.

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

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 06.03.2014 Revision: 11.03.2015

### 8. Exposure control/personal protection

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

· **Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

**106-97-8 butane**

WEL Short-term value: 1810 mg/m<sup>3</sup>, 750 ppm

Long-term value: 1450 mg/m<sup>3</sup>, 600 ppm

Carc (if more than 0.1% of buta-1.3-diene)

**109-66-0 pentane**

WEL Long-term value: 1800 mg/m<sup>3</sup>, 600 ppm

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

· **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.

· **Eye protection:**



Tightly sealed goggles

### 9. Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

**Form:** Aerosol

**Colour:** Green

· **Odour:** Recognizable

· **Odour threshold:** Not determined.

· **pH-value:** Not determined.

· **Change in condition**

**Melting point/Melting range:** Undetermined.

**Boiling point/Boiling range:** -44°C

· **Flash point:** < 0°C

· **Flammability (solid, gaseous):** Not applicable.

· **Ignition temperature:** 365°C

· **Decomposition temperature:** Not determined.

· **Self-igniting:** Product is not selfigniting.

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

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 06.03.2014 Revision: 11.03.2015

· **Explosion limits:**

**Lower:** 1.5 Vol %

**Upper:** 10.9 Vol %

· **Vapour pressure at 20°C:** ~2700 hPa

· **Density at 20°C:** 0.84 g/cm<sup>3</sup>

· **Relative density** Not determined.

· **Vapour density** Not determined.

· **Evaporation rate** Not applicable.

· **Solubility in / Miscibility with**

**water:** Not miscible or difficult to mix.

· **Segregation coefficient (n-octanol/water):** Not determined.

· **Viscosity:**

**Dynamic:** Not determined.

**Kinematic:** Not determined.

· **Solvent content:**

**Organic solvents:** 94.8 %

**VOC (EC)** 94.76 %

**Solids content:** 2.4 %

· **Other information** No further relevant information available.

### 10. Stability and reactivity

· **Reactivity**

· **Chemical stability**

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

· **Possibility of hazardous reactions** No dangerous reactions known.

· **Conditions to avoid** No further relevant information available.

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

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

### 11. Toxicological information

· **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.

### 12. Ecological information

· **Toxicity**

· **Aquatic toxicity:** No further relevant information available.

· **Persistence and degradability** No further relevant information available.

· **Behaviour in environmental systems:**

· **Bioaccumulative potential** No further relevant information available.

· **Mobility in soil** No further relevant information available.

· **Ecotoxicological effects:**

· **Remark:** Harmful to fish

· **Additional ecological information:**

· **General notes:**

## Safety data sheet

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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

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

(  
· **Other adverse effects** No further relevant information available.

### 13. Disposal considerations

· **Waste treatment methods**

· **Recommendation**

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

· **European waste catalogue**

08 02 01 waste coating powders

15 01 04 metallic packaging

· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

### 14. Transport information

· **UN-Number**

· **ADR, IMDG, IATA UN1950**

· **UN proper shipping name**

· **ADR 1950 AEROSOLS**

· **IMDG AEROSOLS**

· **IATA AEROSOLS, flammable**

· **Transport hazard class(es)**

· **ADR**



· **Class 2 5F Gases.**

· **Label 2.1**

· **IMDG, IATA**



· **Class 2.1**

· **Label 2.1**

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**Packing group**

· ADR, IMDG, IATA Void

**Environmental hazards:**

· Marine pollutant: No

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

· Danger code (Kemler): -

· EMS Number: F-D,S-U

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

**Transport/Additional information:**

· ADR

· Tunnel restriction code D

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

## 15. Regulatory information

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

## 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.

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

R12 Extremely flammable.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65 Harmful: may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

**· Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

VOC: Volatile Organic Compounds (USA, EU)