

1.0 Product labels

- **Trade name:** **CP-Graphitspray**
- **Manufacturer / deliverer**
CP-Handels-GmbH
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2.0 Hazards identification

- Xi = Irritant
- F+ = Extremely flammable
- **Information concerning particular hazards for human and environment:**
The product has to be labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- Has a narcotizing effect
- R12 Extremely flammable
- R36 Irritating to eyes
- R67 Vapors may cause drowsiness and dizziness
- 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. Build-up of explosive mixtures possible without sufficient ventilation. Keep out of the reach of children.
- **Classification system:**
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

3.0 Compositions / Information of ingredients:

- Chemical characterization:
- Mixture of substances listed below with nonhazardous additions.
- Substances presenting a health hazard (preparation)

Description	CAS- / EINECS-No.	%	Symbol	R-Clause
Propane-2-ol	CAS: 67-63-0	25-50	Xi, F	R 11-36-67
Propane	CAS: 74-98-6	12,5 – 20	F+	R12
Butane	CAS: 106-97-8	12,5 – 20	F+	R12
Isobutane	CAS: 75-25-5	12,5 – 20	F+	R12
Ethanol	CAS: 64-17-5	10 – 12,5	F	R11

4.0 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. If symptoms persist: consult a doctor.
- **After swallowing:** Drink plenty of water and provide fresh air. Call for a doctor immediately.

5.0 Fire fighting measures

- **Suitable extinguishing agents:**
CO2 powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:**
Water with full jet.
- **Protective equipment:** No special measures required.

6.0 Accidental release measures

- **Person related safety precautions:** Ensure adequate ventilation.
- **Measures for environmental protection:** 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.
- **Measure for cleaning / collecting:** Ensure adequate ventilation

7.0 Handling and storage

- **Handling:**
Information for safe handling
No special measures required. Ensure good ventilation / exhaust at the workplace. Open and handle receptacle with care.
- **Information about fire – and explosions 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. electronic lights. Do not pierce or burn, even after use.
- **Storage:**
Requirements to be met in storerooms and receptacles:
Store in a cool location. Observe official regulations on storing packaging 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.

8.0 Exposure controls / personal protection

- **Additional information about design of technical facilities: No further data, see item 7**
- **Ingredients with limit values that require monitoring at the workplace:**
- **67-63-0 propan-2-ol**
Short term value: 1250 mg/m³, 500ppm
Long term value: 999 mg/m³, 400 ppm
- **106-97-8**
Short term value: 11810 mg/m³
Long term value: 1450 mg/m³
Carc (if more than 0,1% of buta-1.3 diene)
- **67-17-5 ethanol**
Long term value: 1920 mg/m³, 1000 ppm
- **Additional information: The lists valid during the making were used as basis.**
- **Personal protective equipment: General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breads and at the end of work. Do not inhale gases / fumes / aerosols. Avoid contact with eyes. Avoid contact with the eyes and skin.
- **Respiratory protection:** Not required
- **Protection of hands:** Not required
- **Material of gloves:** Not required
- **Penetration time of glove material:** Not required
- **Eye protection:** Tightly sealed goggles.

9.0 Physical and chemical properties

- Form: Aerosol
- Colour: According to product specification
- Odour: Characteristic
- **Change of condition:**
Melting point / Melting range: Undetermined
Boiling point / Boiling range: Not applicable as aerosol
Flash point: <0°C (<32°F) Not applicable as aerosol
Ignition temperature: 365 °C (689 °F)
Self-ignition: Product is not selfignition
Danger of explosion: Product is not explosive. However, formation of explosive air/vapour mixtures is possible
- **Explosion limits:**
Lower 1,5 Vol. %
Upper 15,0 Vol. %

Vapour pressure at 20°C (68°F) 3500 hPa (2625mm Hg)
Density at 20°C (68°F) 0,563 g/cm³
Solubility in / Miscibility with water: Not miscible or difficult to mix
- **Solvent contents**
Organic solvents: 94,8%
Solid content: 5,2%

10.0 Stability and reactivity

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Dangerous reactions: No dangerous reactions known
- Dangerous decomposition products: No dangerous decomposition products known.

11.0 Toxicological information

- **Acute toxicity:**
LD / LC 50 values relevant for classification
- **67-63-0 propan-2-ol**
Oral LD 50, 5045 mg/kg (rat)
Dermal LD 50, 12800 mg/kg (rabbit)
LC50/4h 30mg/m³ (rat)
- **106-97-8 butane**
LC50/4h, 658mg/m³ (rat)
- **64-17-56 ethanol**
Oral LD50, 7060 mg/kg (rat)
Dermal LD 50 >2000 mg/kg (rabbit)
LC 50/4h 20000 mg/m³ (rat)
- **Primary irritant effect:**
On the skin: No irritant effect.
On the eye: irritation effect
Sensitization: No sensitizing effects known
- **Addition toxicological information:**
The product shows the following dangers according to the calculation method of the "General EU Classification Guidelines for Preparations, as issued in the latest version: Irritant

12.0 Ecological information

- **Ecotoxicological effects:**
- **Aquatic toxicity:**
- **67-63-0 Propan-2-ol**
EC50/48h 13299 mg/l (daphnia magna)
LC50 / 48h 9000 mg/l (crustacean water flea))
- **64-17-5 Ethanol**
EC50 / 24h >100mg/l (daphnia magna)
LC50 / 48h 9000 mg/l (crustacean (water flea))
- **General notes:**
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.

13.0 Disposal considerations

- **Product Recommendation:**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging: Recommendation:**
Disposal must be made according to official regulations.

14.0 Transport information

- **Land transport ADR/RID (cross-border):**
ADR/RID class: 2 5F Gases
Danger code (Kemier) –
UN-Number: 1950
Packaging group: -
Hazard label: 2.1
Description of goods:
1950 Aerosols
Limited quantities (LQ) LQ 2
Transport category: 2
Tunnel restriction code: B1D
- **Maritime transport**
IMDG Class: 2.1
U-Number: 1950
Label: 2.1
Packaging group: -
EMS-Number: F-D, S-U
Marine pollutant: No
Proper shipping name: AEROSOLS
- **Air transport ICAO-TI and IATA-DGR:**
ICAE/IATA-Class: 2.1
UN/ID-Number: 1950
Label: 2.1
Packaging group: -
Proper shipping name, AEROSOLS, flammable
UN "Model Regulation": UN1950, AEROSOLS; 2.1; -

15.0 Regulatory information

- **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:**

Xi – Irritant

F+ Extremely flammable

- **Risk phrases:**

R12 Extremely flammable

R36 Irritation to eyes

R67 Vapours may cause drowsiness and dizziness

- **Safety phrases:**

S2 Keep out of the reach of children

S23 Do not breathe aerosol

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

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

S51 Use only in well-ventilated areas

- **Special labeling 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. Keep away from sources of ignition – No smoking. Building of explosive mixtures possible without sufficient ventilation. Keep out of the reach of children.

16.0 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.

R-Phrases:

R11 Highly flammable

R12 Extremely flammable

R36 Irritation to eyes

R67 Vapours may cause drowsiness and dizziness