

# Safety Data Sheet

According to regulation (EC) 1907/2006

## MAPP Gas

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<b>Safety Data Sheet</b> according to regulation (EC) 1907/2006	Creation date: 16.08.2006	
	Reviewed on: 07.07.2009	
	Printing date: 16.07.2009	
	Art.-No.: 3.5551	<b>MAPP Gas</b>

**1. Identification of the substance / preparation and of the company**

<b>Identification:</b>	<b>MAPP Gas</b>
<b>Use of the substance/preparation:</b>	soldering gas
<b>Company:</b>	<b>ROTHENBERGER Werkzeuge GmbH</b> Industriestr. 7 65779 Kelkheim Phone: + 49 (0) 6195 – 800 1
<b>Emergency telephone:</b>	Phone: + 49 (0) 6195 – 800 1

**2. Hazards identification**

**Hazard description:**



F+ Extremely flammable

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

Heightened risk of fire and danger of explosion at accumulation in lower-lying or closed rooms  
 Danger of suffocation at accumulation in lower-lying or closed rooms  
 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.  
 R 12 Extremely flammable.  
 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.  
 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. Composition / information on ingredients**

**Chemical characterization**

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

**Dangerous components:**

CAS: 115-07-1	propene		F+; R 12	50-100%
EINECS: 204-062-1				
CAS: 75-28-5 I	sobutane		F+; R 12	10-25%
EINECS: 200-857-2				

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

**4. First-aid measures**

**After inhalation:**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation.


**After skin contact:**

Generally the product does not irritate the skin.  
 In cases of frost bites, rinse with plenty of water. Do not remove clothing.  
 Cover wound with a sterile dressing.

**After eye contact:** Rinse opened eye for several minutes under running water.

**After swallowing:** If symptoms persist consult doctor.

**Information for doctor:**

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**The following symptoms may occur:**

Dizziness  
 Unconsciousness  
 Nausea  
 Frost bites

**5. Fire-fighting measures**

**Suitable extinguishing agents:**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**Special hazards caused by the substance, its products of combustion or resulting gases:**

Can form explosive gas-air mixtures.

Under certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:

Carbon monoxide (CO)

**Protective equipment:** Wear self-contained respiratory protective device.

**Additional information** Cool endangered receptacles with water spray.

**6. Accidental release measures**

**Person-related safety precautions:**

Wear protective equipment. Keep unprotected persons away.

Remove persons from danger area.

Ensure adequate ventilation

Keep away from ignition sources.

**Measures for environmental protection:** Prevent seepage into sewage system, workpits and cellars.

**Measures for cleaning/collecting:**

Ensure adequate ventilation.

Allow to evaporate.

**7. Handling and storage**

**Handling:**

**Information for safe handling:**

Open and handle receptacle with care.

Store in cool, dry place in tightly closed receptacles.

Keep away from heat and direct sunlight.

Ensure good ventilation/exhaustion at the workplace.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

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

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

**Storage:**

**Requirements to be met by storerooms and receptacles:** Store in a cool location.

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

**Further information about storage conditions:**

Keep container tightly sealed.

Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

Protect from heat and direct sunlight.

**8. 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:**

115-07-1 propene

OES Asphyxiant

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


**Personal protective equipment:**

**General protective and hygienic measures:** Wash hands before breaks and at the end of work.

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

**Protection of hands:**

Heat resistant gloves

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Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**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.

**Penetration time of glove material**

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:**



Tightly sealed goggles

**9. Physicla and chemical properties**

**General Information**

<b>Form:</b>	Compressed liquefied gas
<b>Colour:</b>	Colourless
<b>Odour:</b>	Sweetish
<b>Change in condition</b>	
<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	-47°C
<b>Flash point:</b>	-100°C
<b>Ignition temperature:</b>	455°C
<b>Self-igniting:</b>	Product is not selfigniting.
<b>Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/ vapour mixtures are possible.
<b>Explosion limits:</b>	
<b>Lower:</b>	1.8 Vol %
<b>Upper:</b>	11.1 Vol %
<b>Vapour pressure at 20°C:</b>	9 bar
<b>Density at 20°C:</b>	0.6 g/cm³
<b>Solubility in / Miscibility with water:</b>	Slightly soluble.

**10.Stability and reactivity**

**Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

**Dangerous reactions**

Forms explosive gas mixture with air.

Danger of bursting.

**Dangerous decomposition products:** Carbon monoxide and carbon dioxide

**11. Toxicological information**

**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**


**General notes:** Generally not hazardous for water

**13. Disposal considerations**

**Product:**

**Recommendation**

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

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**European waste catalogue**

- 16 00 00 WASTES NOT OTHERWISE SPECIFIED IN THE LIST
- 16 05 00 gases in pressure containers and discarded chemicals
- 16 05 04 gases in pressure containers (including halons) containing dangerous substances

**Uncleaned packaging:**

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

**14. Transport information**

**Land transport ADR/RID (cross-border)**



**ADR/RID class:** 2 2F Gases.  
**Danger code (Kemler):** 23  
**UN-Number:** 1077  
**Hazard label** 2.1  
**Description of goods:** 1077 PROPYLENE  
**Maritime transport IMDG:**



**UN Number:** 1077  
**Label** 2.1  
**Marine pollutant:** No  
**Proper shipping name:** PROPYLENE  
**Air transport ICAO-TI and IATA-DGR:**



**UN/ID Number:** 1077  
**Label** 2.1  
**Proper shipping name:** PROPYLENE

**15. 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:**

F+ Extremely flammable

**Risk phrases:**

12 Extremely flammable.

**Safety phrases:**

- 2 Keep out of the reach of children.
- 3 Keep in a cool place.
- 9 Keep container in a well-ventilated place.
- 16 Keep away from sources of ignition - No smoking.
- 33 Take precautionary measures against static discharges.
- 29 Do not empty into drains.


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

Buildup of explosive mixtures possible without sufficient ventilation.

Keep out of the reach of children

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**National regulations:**

**Waterhazard class:** Generally not hazardous for water.

**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 R-phrases**

12 Extremely flammable.