



**Trade Name: Gas Feuerzeug**

Company / Supplier: ELEKTRONICA SM-Handels GmbH, Mergenthaler Str. 29-31, D- 48268 Greven  
 Telephone: +49-2571-57890-0, Date of issue: 05.08.2016 Replaces Data Sheet of: 30.09.2014

**SECTION 3: Composition/information on ingredients****3.1 Substances**

n.ap.

**3.2 Mixtures****Chemical Characterisation:****Dangerous Ingredients:**

Material	CAS - No.	Index - No.	EC - No.	REACH - No.	m% - range
<b>Isobutan</b> 75-28-5 Flam. Gas 1; H220 / Liq. Press. Gas; H280		601-004-00-0	200-857-2	01-2119485395-27-xxxx	<b>40 - 50%</b>
<b>Butan</b> 106-97-8 Flam. Gas 1; H220 / Liq. Press. Gas; H280		601-004-00-0	203-448-7	01-2119474691-32-xxxx	<b>40 - 50%</b>
<b>Propan</b> 74-98-6 Flam. Gas 1; H220 / Liq. Press. Gas; H280		601-003-00-5	200-827-9	01-2119486944-21-xxxx	<b>10 - 20%</b>

Text of H - phrases: see section 16

m% - range: x - y  $\triangleq$  x  $\geq$  - < y**SECTION 4: First aid measures****4.1 Description of first aid measures****4.1.1 Inhalation:**

Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. If symptoms persist, call a physician.

**4.1.2 Skin Contact:**

Wash off with soap and water. If symptoms persist, call a physician.

**4.1.3 Eye Contact:**

Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.

**4.1.4 Ingestion:**

n.ap.

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

headache, Dizziness, Daze

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

Treat symptomatically.

**SECTION 5: Firefighting measures****5.1 Extinguishing media****5.1.1 Suitable Extinguishing Media:**Use dry chemical, CO<sub>2</sub>, water spray or "alcohol" foam.**5.1.2 Extinguishing Media to Avoid:**

None.

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

In the event of fire the following can be released: Carbon oxides

**5.3 Advice for firefighters****5.3.1 Special Protective Equipment:**

Wear positive pressure self-contained breathing apparatus. Wear full protective clothing.

**5.3.2 Additional Information:**

In the event of fire, cool tanks with water spray.

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**SECTION 6: Accidental release measures**

- 6.1 **Personal precautions, protective equipment and emergency procedures**  
See chapter 8.2.2  
Ensure adequate ventilation. Keep away from sources of ignition - No smoking.
- 6.2 **Environmental precautions**  
Do not let product enter drains. Local authorities should be advised if significant spillages cannot be contained.
- 6.3 **Methods and material for containment and cleaning up**  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
- 6.4 **Reference to other sections**  
None.

**SECTION 7: Handling and storage**

- 7.1 **Precautions for safe handling**
- 7.1.1 **Precautions for Safe Handling:**  
Do not inhale aerosol. Avoid contact with skin and eyes. Take off all contaminated clothing immediately. When using, do not eat, drink or smoke. Wash hands before breaks and at the end of workday.
- 7.1.2 **Precautions in Case of Fire and Explosion:**  
Vapours may form explosive mixture with air. Keep away from sources of ignition - No smoking.
- 7.2 **Conditions for safe storage, including any incompatibilities**
- 7.2.1 **Storage Instructions:**  
Jointless smooth floor Provide adequate ventilation.
- 7.2.2 **Store away from:**  
Incompatible with oxidizing agents.
- 7.2.3 **Further Information on Storage Conditions:**  
Keep away from direct sunlight.
- 7.3 **Specific end use(s)**  
n.av.

**SECTION 8: Exposure controls/personal protection**

- 8.1 **Control parameters**
- | <b>Material</b> | <b>Limit Value</b>                     |
|-----------------|--|
| Isobutan        | AGW: 1000 ppm   2400 mg/m <sup>3</sup> |
| Butan           | AGW: 1000 ppm   2400 mg/m <sup>3</sup> |
| Propan          | AGW: 1000 ppm   1800 mg/m <sup>3</sup> |
- 8.2 **Exposure controls**
- 8.2.1 **Appropriate engineering controls**  
Ensure adequate ventilation, especially in confined areas. Take precautionary measures against static discharges.
- 8.2.2 **Individual protection measures**
- 8.2.2a **Respiratory Protection:** In case of insufficient ventilation, wear suitable respiratory equipment. Breathing apparatus with filter. (AX)
- 8.2.2b **Hand Protection:** solvent-resistant gloves: Viton, PVC, Break through time: > 6h  
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
- 8.2.2c **Eye Protection:** safety glasses
- 8.2.2d **Skin Protection:** protective suit
- 8.2.2e **Further Information:** Observe wearing time limits:
- 8.2.3 **Environmental exposure controls:**  
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**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

9.1.1	<b>Form:</b> aerosol	<b>Colour:</b> colourless	<b>Odour:</b> characteristic
			<b>Odour threshold:</b> n.av.
9.1.2	pH-value, undiluted:	n.av.	
	pH-value, 1% aqueous solution:	n.av.	
9.1.3	Boiling point / Boiling - range (°C):	n.av., Melting point / Melting range (°C): n.av.	
9.1.4	Flash point (°C):	< 21, closed cup	
9.1.5	Flammability (EEC A10/A13):	n.av.	
9.1.6	Ignition temperature (°C):	430	
9.1.7	Autoflammability (EEC A16):	n.av.	
9.1.8	Oxidising properties:	None.	
9.1.9	Explosion hazard:	n.av.	
9.1.10	Explosion limits (Vol.%) lower:	1,5, upper: 8,5	
9.1.11	Vapour pressure:	3000 hPa	
	Vapour density (Air = 1):	2,01	
9.1.12	Density (g/ml):	0,56	
9.1.13	Solubility (in Water):	n.av.	Soluble in: n.av.
9.1.14	Partition coefficient, n-Octanol / Water:	n.av.	
9.1.15	Viscosity:	n.av.	
9.1.16	Solvent content (m %):	> 80	
9.1.17	Thermal decomposition (°C):	n.av.	
9.1.18	Evaporation rate:	n.av.	
9.2	<b>Other information</b>		
	n.av.		

**SECTION 10: Stability and reactivity****10.1 Reactivity**

Risk of receptacle bursting. at high temperatures.

**10.2 Chemical stability**

Stable under normal conditions.

**10.3 Possibility of hazardous reactions**

No dangerous reaction known under conditions of normal use.

**10.4 Conditions to avoid**

Heat, flames and sparks. Vapours may form explosive mixtures with air.

**10.5 Incompatible materials**

Incompatible with oxidizing agents.

**10.6 Hazardous decomposition products**

No decomposition if stored and applied as directed.

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**SECTION 11: Toxicological information****11.1 Information on toxicological effects**

Acute Health Effects:

Inhalation: n.av.

Ingestion: n.av.

Skin Contact: n.av.

Skin corrosion / irritation: n.av.

Serious eye damage / irritation: n.av.

Respiratory or skin sensitisation: n.av.

Germ cell mutagenicity: n.av.

Carcinogenicity: n.av.

Reproductive toxicity: n.av.

STOT-single exposure: n.av.

STOT-repeated exposure: n.av.

Aspiration hazard: n.av.

**11.1.1 – Practical Experience**

11.1.11 n.av.

**11.1.12 Practical Experience**

Observations relevant for classification:

None.

Further Observations:

Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.

Classification of the preparation has been done by calculation in accordance with EEC directives.

**SECTION 12: Ecological information****12.1 Toxicity**

n.av.

**12.2 Persistence and degradability**

The product is slightly soluble in water. It can be eliminated from water by abiotic processes.

**12.3 Bioaccumulative potential**

n.av.

**12.4 Mobility in soil**

n.av.

**12.5 Results of PBT and vPvB assessment**

This mixture contains no substances which are assessed to be PBT or vPvB.

**12.6 Other adverse effects**

12.6.1 COD-Value, mg/g: n.av.

12.6.2 BOD5-Value, mg/g: n.av.

12.6.3 AOX-Remarks: Not relevant

12.6.4 Significant Components: None.

12.6.5 Other adverse effects: None.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

13.1.1 Recommendation: D 10 / R 1

Waste - Code - No.: 16 05 04

The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

In addition comply with the regional authorities.

**13.2 Contaminated Packaging**

13.2.1 Recommendation: Wash with suitable cleaner. Otherwise as described under Residues. Offer rinsed packaging material to local recycling facilities.




13.2.2 Safe Handling: As described under Residues. Handle in accordance with good industrial hygiene and safety practice.

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**SECTION 14: Transport information**

	<b>ADR</b> SP 201	<b>IMDG</b> SP 201	<b>IATA</b>
14.1 <b>UN number</b>	1057	1057	1057
14.2 <b>UN proper shipping name</b>	UN 1057 Lighter	Lighter	Lighter
14.3 <b>Transport hazard class(es)</b>	2 	2 	2.1 
14.4 <b>Packing group</b>	n.ap.	n.ap.	n.ap.
14.5 <b>Environmental hazards</b>		No.	
14.6 <b>Special precautions for user</b>	Transport category: 2 Classification Code: 6F Hazard - No.: n.ap. LQ:	F-D, S-U	Packing Instructions (Passenger) 201 Packing Instructions (Cargo) 201
14.7 <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>			

**SECTION 15: Regulatory information**

15.1 <b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	n.av.
15.2 <b>Chemical safety assessment :</b>	n.ap.

**SECTION 16: Other information****Text of H phases mentioned in Section 3**

H220: Extremely flammable gas.

This datasheet has been compiled in accordance with EU regulation 2015/830.

The statements in this Material Safety Data Sheet were made to the best of our knowledge and are as accurate as possible. They are given for information only. They do not constitute a contractual guarantee of a product's properties. They must neither be altered nor transferred to other products.

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