

## **Safety Data Sheet**

## Test gas can 100 % vol. propane

# Safety Data Sheet in compliance with Regulation (EC) No 1907/2006 (as amended by Regulation (EU) No 453/2010)

Safety data sheet no:	108082
Version:	3
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Replaces version:	2

1. Identification of the substance/mixture and of the company/undertaking Product identifier			
		Substance name/trade name:	Test gas, 100 % vol. $C_3H_8$ in pressurised gas pack
Product code:	ZT22-10001		
Index no:	601-003-00-5		
EC no:	200-827-9		
CAS no:	74-98-6		
REACH registration no:	Listed in Annex IV/V REACH, exempted from registration.		
Other means of identification:	Test gas can 100 % vol. C <sub>3</sub> H <sub>8</sub> , Test gas 100 % vol. C <sub>3</sub> H <sub>8</sub>		
Uses:	Industrial and professional.		
Details of the supplier of	Details of the supplier of the safety data sheet		
Manufacturer/supplier:	Hermann Sewerin GmbH		
Street address:	Robert-Bosch-Straße 3		
City/town, country:	33334 Gütersloh, Germany		
Email:	info@sewerin.com		
Telephone/fax:	+49 (0)5241 934444		
Emergency telephone number:	+49 (0)5241 934333 (office hours)		

### 2. Hazards identification

#### Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008, Annex VII:	Extremely flammable aerosol (H222). F+; R12
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### Label elements in accordance with Regulation (EC) No 1272/2008:

Pictogram/hazard symbol:	
Signal word/indication of danger:	Danger.
Hazard statements (H statements)	H222: Extremely flammable aerosol.
	H229: Pressurized container: may burst if heated.
Precautionary statements (P statements)	P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P211: Do not spray on an open flame or other ignition source.
	P251: Pressurized container: Do not pierce or burn, even after use.
	P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50 °C / 122 °F.

3. Composition/information on ingredients	
Substance/mixture:	Substance
Substance name:	Propane
Concentration:	100 %
Index no:	601-003-00-5
EC no:	200-827-9
CAS no:	74-98-6

#### 4. First aid measures

#### Description of first aid measures

Inhalation:	In high concentrations may cause asphyxiation. Symptoms may include loss of mobility and consciousness. Victim may not be aware of asphyxiation. Remove victim to uncontaminated area wearing self-contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing has stopped.
Skin contact:	Skin contact is not considered a potential route of exposure.
Eye contact:	Eye contact is not considered a potential route of exposure.
Ingestion:	Ingestion is not considered a potential route of exposure.
Most important symptoms and effects, both acute and delayed:	Asphyxiation, loss of mobility and consciousness.
Indication of any immediate medical attention and special treatment needed	Apply artificial respiration if breathing has stopped.

5. Firefighting measures Extinguishing media		
		Suitable extinguishing media:
Unsuitable extinguishing media:	None known.	
Special hazards arising from the substance or mixture		
Specific hazards:	Exposure to fire may cause containers to rupture/explode.	
Hazardous combustion products:	Incomplete combustion may form carbon monoxide.	
Advice for firefighters		
Specific methods:	Move away from container and cool with water from a protected position. Do not extinguish a leaking gas flame unless absolutely necessary. Spontaneous, explosive reignition may occur. Extinguish any other fire.	
Special protective equipment for firefighters:	In confined spaces use self-contained breathing apparatus.	
Indication of any immediate medical attention and special treatment needed:	Apply artificial respiration if breathing has stopped.	

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:	Clear the area. Ensure adequate air ventilation. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. Eliminate ignition sources.
Environmental precautions:	Try to stop gas release.
Methods and material for containment and cleaning up:	Ventilate area.
Reference to other sections:	

### 7. Handling and storage

Precautions for safe handling	
Measures to prevent fire and explosion:	Purge air from system before introducing gas. Take precautionary measures against static discharges. Open valves slowly to prevent pressure spikes. Do not allow water to enter the container. Do not allow backfeed into the container. Use only equipment that is suitable for this product, its supply pressure and temperature. Keep away from ignition sources, including static discharges.
Measures to prevent dust and aerosol generation:	
Measures to protect the environment:	
General hygiene precautions:	
Conditions for safe stora	age, including any incompatibilities
Information on storage conditions:	Segregate from oxidising gases and other oxidising substances. Store containers below 50 °C in a well-ventilated location.
Requirements for storage areas and containers:	
Specific end use(s)	
Industry or sector-specific guidance:	

8. Exposure controls/p	ersonal protection
Occupational exposure limits and/or biological limits	
Occupational exposure	-
Substance name, CAS no:	Propane, 74-98-6
Specification:	TRGS 900
Value:	1800 mg/m <sup>3</sup> , 1000 ppm
Acceptable peak concentration:	4
Teratogenic:	
Monitoring procedures:	
DNEL and PNEC values	S
Substance name, CAS no:	
Specification:	
Value:	
Control banding (e.g. II	LO, EMKG)
Relevant parameters/classification:	
Relevant protection guidelines:	
Value:	
Exposure controls	
Appropriate engineering controls:	Provide general and local ventilation/extraction to keep concentrations below explosion limits and/or to comply with occupational exposure limits (where applicable).
Individual protection measures, such as personal protective equipment:	Ensure adequate ventilation. No smoking when handling the product. Gas is heavier than air. It can accumulate in confined spaces, particularly at floor level or in lower areas.
Environmental exposure controls:	

#### 9. Physical and chemical properties

Appearance, state of aggregation:	Gas.
Colour:	Colourless gas.
Odour:	Sweet. Barely perceptible in low concentrations.
Molecular weight:	44
Melting point:	-188 °C
Boiling point:	-42.1 °C
Critical temperature:	97 °C
Vapour pressure:	8.3 bar
Relative density, gas (air =1):	1.5
Solubility in water:	75 mg/l
Flammability range:	1.7 % vol. to 9.5 % vol.
Ignition temperature:	470 °C

10. Stability and reactivity	
Reactivity:	Unreactive under normal temperature and pressure conditions.
Chemical stability:	Stable under normal temperature and pressure conditions.
Possibility of hazardous reactions:	None.
Conditions to avoid:	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
Incompatible materials:	Can form an explosive mixture with air. Can react vigorously with oxidising substances. Air, oxidising agents.
Hazardous decomposition products:	None.

## 11. Toxicological information

Information on toxicological	There are no known toxic effects associated with this product.
effects:	

## 12. Ecological information

Toxicity:	When discharged in large quantities may contribute to the greenhouse effect.
Persistence and degradability:	No data available.
Bioaccumulative potential:	No data available.
Mobility in soil:	No data available.
Results of PBT and vPvB assessment:	No data available.
Other adverse effects:	No data available.

13. Disposal considerations	
Waste treatment methods:	Do not discharge into areas where there is a risk of forming an explosive gas/air mixture. Prevent runoff into sewerage systems, cellars, working pits and similar places where accumulation of the gas could be dangerous. Contact supplier if guidance is required.
Treatment of contaminated packaging:	Contact supplier for special recommendations. Recycling: 15 01 04 Metallic packaging.
Waste code in accordance with the German Waste Ordinance (AVV):	16 05 04 – Gases in pressure containers (including halons) containing dangerous substances.
Special precautions:	
Relevant EU or other provisions:	

14. Transport information	
UN number:	UN 1950
Classification under ADR/RID regulations:	2.1: Flammable gases.
Classification under IMDG Code/ICAO-TI/IATA-DGR regulations:	2.1: Flammable gases.
Surface transport	
HI no:	
UN proper shipping name:	UN 1950 AEROSOLS, flammable, 2.1, (D)
Transport hazard class(es):	2
Classification code:	5 F
Packing group:	F
Packing instruction(s):	P207, LP02
Tunnel restriction:	D: Passage forbidden through tunnels of categories D and E
ADR limited quantities:	The total gross mass of the packages must not exceed 30 kg.
Transport by sea	
GGVSee/IMO-IMDG code:	Class 2
Description of the goods:	AEROSOLS
Class:	2.1
Packing group:	
EMS:	F-D, S-U
Air transport	
ICAO/IATA-DGR:	Packing instruction (cargo): 203 Packing instruction (passenger): 203
Technical name:	AEROSOLS, flammable
Class:	2.1
IATA packing group:	
IATA passenger and cargo aircraft:	Allowed.
Packing instruction:	Y203, 203
Cargo aircraft only:	Allowed.

Packing instruction:	203	
Environmental hazards - Indication of environmentally hazardous substances		
ADR/RID / IMDG Code / ICAO-TI / IATA-DGR:	None.	
Marine pollutant:	None.	
Special precautions for user		
Other transport information:	Ensure that the valve lock nut is correctly fitted. Ensure adequate ventilation. Ensure compliance with applicable regulations.	

## 15. Regulatory information

# Safety, health and environmental regulations/legislation specific for the substance or mixture

European requirements:	Directive 2013/10/EU, 2008/47/EC, amendment of the aerosol dispenser directive 75/324/EEC. Regulation EG No. 1907/2006 (REACH). Regulation EG No. 1272/2008 (CLP).
National regulations:	

Ensure compliance with all national and local regulations.

16. Other information	
Changes to the previous version:	Section 15.
Training for employees:	www.industriegaseverband.de http://www.eiga.org/
Conversion of units:	0.001 % vol. = 10 ppm
Further information:	The risk of asphyxiation is often overlooked and must be stressed during operator training. Before using the product in any new process or experiment, a thorough material compatibility and safety study should be carried out. This information does not imply a contractual confirmation of product characteristics. It is based on current knowledge.

108082 – 25.07.2017 – Subject to technical changes.