

Safety Data Sheet

Test gas can 17.5 % vol. oxygen

Safety Data Sheet in compliance with Regulation (EC) No 1907/2006 (as amended by Regulation (EU) No 878/2020)			
Safety data sheet no:	108092		
Version:	4	Replaces version:	3
Creation date:	14.12.2023	Valid from:	20.12.2023

1. Identification of the su	ubstance/mixture and of the company/undertaking
Product identifier	
Substance name/trade name:	Test gas, nitrogen with 17.5 % vol. O ₂ in pressurised gas pack
Product code:	ZT12-10000
Index no:	
EC no:	
CAS no:	
REACH registration no:	Listed in Annex IV/V REACH, exempted from registration.
Unique formula identifier (UFI)	Not applicable for gases under pressure in accordance with Annex VIII to Regulation (EC) No 1272/2008 (amended by (EU) 2017/542).
Other means of identification:	Test gas can 17.5 % vol. O ₂ , Test gas 17.5 % vol. O ₂
Identified uses:	Industrial and professional.
Which are not recommended:	
Details of the supplier of	the safety data sheet
Manufacturer/supplier:	Hermann Sewerin GmbH
Address:	Robert-Bosch-Straße 3, D – 33334 Gütersloh
Email:	info@sewerin.com
Telephone:	+49 (0)5241 934-0
Emergency telephone no:	+49 (0)5241 934-330 (office hours)

2. Hazards identification	1
Classification of the substance or mixture	
Classification in accordance with Regulation (EC) No 1272/2008, Annex VII:	Aerosol (H229).
Label elements in accor	rdance with Regulation (EC) No 1272/2008
Pictogram/hazard symbol:	
Signal word/indication of danger:	Caution.
Hazard statements (H statements)	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.
	P251: Do not pierce or burn, even after use.
	P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50 °C / 122 °F.
Other hazards	
Other hazards	Asphyxiating in high concentrations. These elevated concentrations are within the ignition range.

3. Composition/information on ingredients	
Substance/mixture:	Mixture
Substance, component A:	Nitrogen
Concentration, component A:	82.5 %
Index no, component A:	
EC no, component A:	231-783-9
CAS no, component A:	7727-37-9
Substance, component B:	Oxygen
Concentration, component B:	17.5 %
Index no, component B:	008-001-00-8
EC no, component B:	231-956-9
CAS no, component B:	7782-44-7

4. First aid measures	
Description of first aid n	neasures
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 symptor	ms and effects, both acute and delayed
Most important symptoms and effects, both acute and delayed:	Asphyxiation, loss of mobility and consciousness.
Indication of any immed	iate medical attention and special treatment needed
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:	Any known extinguishing media may be used.
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:	If possible, stop gas leakage. Move away from container and cool with water from a protected position.
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 Personal precautions, protective equipment and breathing apparatus when entering area unless atmosphere is emergency procedures: proved to be safe. **Environmental precautions** Environmental precautions: Try to stop gas release. Methods and material for containment and cleaning up Methods and material for Ventilate area. containment and cleaning up: Reference to other sections

Reference to other sections:

7. Handling and storage Precautions for safe handling Measures to prevent fire and Open valves slowly to prevent pressure spikes. Do not allow water to enter the container. explosion: Do not allow backfeed into the container. Use only equipment that is suitable for this product, its supply pressure and temperature. Measures to prevent dust and aerosol generation: Measures to protect the environment: General hygiene precautions: Conditions for safe storage, including any incompatibilities Store containers below 50 °C in a well-ventilated location. Information on storage conditions: Requirements for storage areas and containers: Specific end use(s) Industry or sector-specific guidance:

8. Exposure controls/pe	ersonal protection
Control parameters	
Occupational exposure limit	s for Germany
Substance name, CAS no:	
Specification:	
Value:	
Acceptable peak concentration:	
Teratogenic:	
Monitoring procedures:	
DNEL and PNEC values	
Substance name, CAS no:	
Specification:	
Value:	
Control banding (e.g. ILO, E	MKG)
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.
Environmental exposure controls:	

9. Physical and chemical properties	
Information on basic physical and chemical properties	
Appearance, state of aggregation:	Gas.
Colour:	Colourless gas.
Odour:	No perceptible odour.
Melting point:	
Boiling point:	
Vapour pressure:	Not applicable.
Relative density, gas (air =1):	Density similar to air.

Solubility in water:	Nitrogen (component A): 20 mg/l, Oxygen (component B): 39 mg/l	
Flammability range:	None.	
Ignition temperature:	None.	
Other information		
Molecular weight:		
Critical temperature:		

10. Stability and reactivity		
Reactivity		
Reactivity:	Unreactive under normal temperature and pressure conditions.	
Chemical stability		
Chemical stability:	Stable under normal temperature and pressure conditions.	
Possibility of hazardous	s reactions	
Possibility of hazardous reactions:	None.	
Conditions to avoid		
Conditions to avoid:	None.	
Incompatible materials		
Incompatible materials:	None.	
Hazardous decomposit	Hazardous decomposition products	
Hazardous decomposition products:	None.	

11. Toxicological information	
Information on hazard classes as defined in Regulation (EC) No 1272/2008	
Information on toxicological effects:	There are no known toxic effects associated with this product.
Information on other hazards	
Other hazards:	None.

12. Ecological i	nformation
Toxicity	
Toxicity:	This product does not cause any environmental pollution.

Persistence and degradability				
No data available.				
ial				
No data available.				
No data available.				
B assessment				
No data available.				
operties				
The substance or mixture does not have any endocrine-disrupting properties.				
No data available.				

13. Disposal considerations			
Waste treatment methods			
Waste treatment methods:	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 05 – Gases in pressure containers other than those mentioned in 16 05 04.		
Special precautions:			
Relevant EU or other provisions:			

14. Transport information				
UN number or ID number				
UN number:	UN 1950			
UN proper shipping name				
Surface transport (ADR/RID):	AEROSOLS			
Transport by sea (IMDG):	AEROSOLS			
Air transport (ICAO-TI/IATA-DGR):	AEROSOLS, non-flammable			

Transport hazard class(es)
Transport hazard class surface transport (ADR/RID):	2
Transport hazard class by sea (IMDG):	2
Transport hazard class air transport (ICAO-TI/IATA-DGR):	2
Surface transport	
Classification under ADR/RID regulations:	2.2
Classification under ADR/RID LQ:	2.5A LQ: 30 kg Special provisions: 190, 327, 344, 625
Classification code:	5 A
Tunnel restriction:	E: Passage forbidden through tunnels of category E
Transport by sea	
Classification:	2.2
EMS:	F-D, S-U
Air transport	
Classification:	2.2
Packaging instruction:	Y203, 203
Packing group	
Surface transport (ADR/RID):	Not applicable.
Transport by sea (IMDG):	Not applicable.
Air transport (ICAO-TI/IATA- DGR):	Not applicable.
Environmental hazards	
Surface transport (ADR/RID):	Not a marine pollutant.
Transport by sea (IMDG):	Not a marine pollutant.
Air transport (ICAO-TI/IATA- DGR):	Not a marine pollutant.

Special precautions for user		
Other transport information:	Ensure that the valve lock nut is correctly fitted. Ensure adequate ventilation. Ensure compliance with applicable regulations.	
Maritime transport in bulk according to IMO instruments		
Maritime transport in bulk:	Not applicable.	

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).			
	Ensure compliance with all national and local regulations.			
Chemical safety assess	ment			
Chemical safety assessment:	A chemical safety assessment does not need to be prepared for this product.			

16. Other information	
Changes to the previous version:	Revision according to Regulation (EU) No. 878/2020.
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.

108092 – 20.12.2023 – Subject to technical changes.