

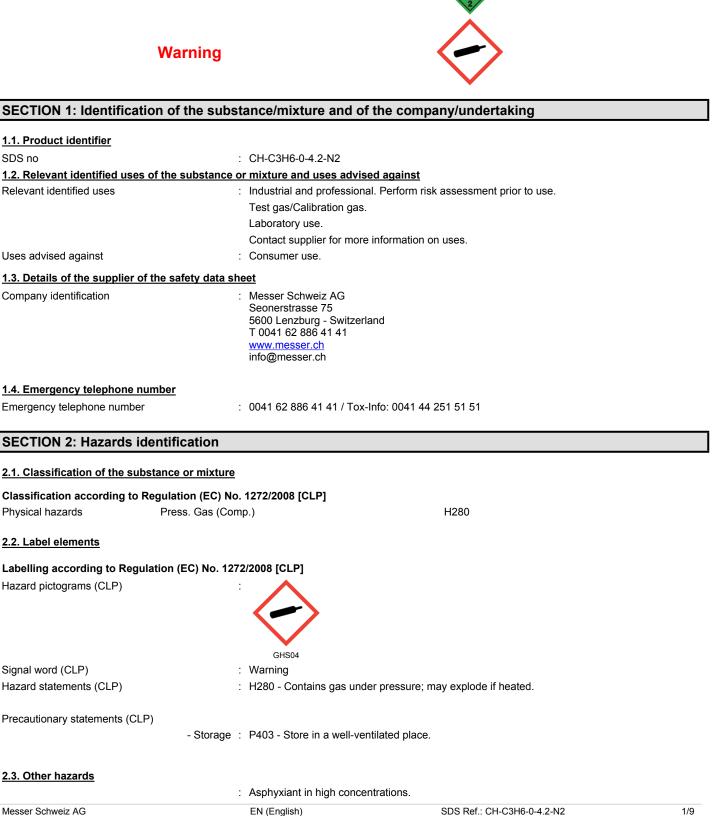
Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

C3H6 0% - 4.2% in N2

Date of issue: 29/04/2016 SDS reference: CH-C3H6-0-4.2-N2



Version: 0.0





MESSER



SECTION 3: Composition/information on ingredients

3.1. Substances : Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Nitrogen	(CAS-No.) 7727-37-9 (EC-No.) 231-783-9 (EC Index-No.) (REACH-no) *1	>= 86.22	Press. Gas (Comp.), H280
Propylene	(CAS-No.) 115-07-1 (EC-No.) 204-062-1 (EC Index-No.) 601-011-00-9 (REACH-no) 01-2119447103-50	3.78 - 4.62	Flam. Gas 1, H220 Press. Gas (Liq.), H280

Full text of H-statements: see section 16

Contains no other components or impurities which will influence the classification of the product.

*1: Listed in Annex IV / V REACH, exempted from registration.

*3: Registration not required: Substance manufactured or imported < 1t/y.

SECTION 4: First aid measures

4.1. Description of first aid measures

- Inhalation	: Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Perform cardiopulmonary resuscitation if breathing stopped.	
- Skin contact	: Adverse effects not expected from this product.	
- Eye contact	: Adverse effects not expected from this product.	
- Ingestion	: Ingestion is not considered a potential route of exposure.	
4.2. Most important symptoms and effects, both acute and delayed		
	In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation.	

Refer to section 11.

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

: None.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media - Unsuitable extinguishing media	: Water spray or fog. : Do not use water jet to extinguish.	
5.2. 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.	
5.3. Advice for firefighters		

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Specific methods	: Use fire control measures appropriate for the surrounding fire. Exposure to fire and heat radiation may cause gas receptacles to rupture. Cool endangered receptacles with water spray jet from a protected position. Prevent water used in emergency cases from entering sewers and drainage systems.
	If possible, stop flow of product.
	Use water spray or fog to knock down fire fumes if possible. Move containers away from the fire area if this can be done without risk.
Special protective equipment for fire fighters	: Use self-contained breathing apparatus.
	Standard protective clothing and equipment (Self Contained Breathing Apparatus) for fire fighters.
	Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask.
	Standard EN 469 - Protective clothing for firefighters. Standard - EN 659: Protective gloves for firefighters.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

	: Act in accordance with local emergency plan.	
	Try to stop release.	
	Evacuate area.	
	Monitor concentration of released product.	
	Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe.	
	Ensure adequate air ventilation.	
	Stay upwind.	
6.2. Environmental precautions		
	: Try to stop release.	
6.3. Methods and material for containment and cleaning up		
	: Ventilate area.	
6.4. Reference to other sections		
	: See also sections 8 and 13.	
SECTION 7: Handling and storage		

7.1. Precautions for safe handling

Safe use of the product	: The product must be handled in accordance with good industrial hygiene and safety procedures.
	Only experienced and properly instructed persons should handle gases under pressure.
	Consider pressure relief device(s) in gas installations.
	Ensure the complete gas system was (or is regularily) checked for leaks before use.
	Do not smoke while handling product.
	Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt.
	Do not breathe gas.
	Avoid release of product into atmosphere.

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Safe handling of the gas receptacle	: Refer to supplier's container handling instructions.
	Do not allow backfeed into the container.
	Protect cylinders from physical damage; do not drag, roll, slide or drop.
	When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders.
	Leave valve protection caps in place until the container has been secured against either a wall or bench or placed in a container stand and is ready for use.
	If user experiences any difficulty operating cylinder valve discontinue use and contact supplier.
	Never attempt to repair or modify container valves or safety relief devices.
	Damaged valves should be reported immediately to the supplier.
	Keep container valve outlets clean and free from contaminants particularly oil and water.
	Replace valve outlet caps or plugs and container caps where supplied as soon as container is disconnected from equipment.
	Close container valve after each use and when empty, even if still connected to equipment.
	Never attempt to transfer gases from one cylinder/container to another.
	Never use direct flame or electrical heating devices to raise the pressure of a container.
	Do not remove or deface labels provided by the supplier for the identification of the cylinder contents.
	Containers should be stored in the vertical position and properly secured to prevent them from falling over.
7.2. Conditions for safe storage, includi	ng any incompatibilities
	: Observe all regulations and local requirements regarding storage of containers.
	Containers should not be stored in conditions likely to encourage corrosion.
	Container valve guards or caps should be in place.
	Containers should be stored in the vertical position and properly secured to prevent them from falling over.
	Stored containers should be periodically checked for general condition and leakage.
	Keep container below 50°C in a well ventilated place.
	Store containers in location free from fire risk and away from sources of heat and ignition.
	Keep away from combustible materials.
7.3. Specific end use(s)	
	· None

: None.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Propylene (115-07-1)		
OEL : Occupational Exposure	Limits	
Switzerland	TWA (CH) OEL 8h [mg/m ³]	17500 mg/m³
	TWA (CH) OEL 8h [ppm]	10000 ppm
	Remark	Kritische Toxizität: OAW, Asphyxie
	Regulatory reference	www.suva.ch, 01.11.2018
Nitrogen (7727-37-9)		
OEL : Occupational Exposure	Limits	
Switzerland	Regulatory reference	www.suva.ch, 01.11.2018

8.2. Exposure controls



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8.2.1. Appropriate engineering controls	. Describe adaptivate assumed and local extrement contribution
	: Provide adequate general and local exhaust ventilation.
	Systems under pressure should be regularily checked for leakages.
	Ensure exposure is below occupational exposure limits (where available).
	Oxygen detectors should be used when asphyxiating gases may be released.
	Consider the use of a work permit system e.g. for maintenance activities.
8.2.2. Individual protection measures, e.g. p	ersonal protective equipment
	 A risk assessment should be conducted and documented in each work area to assess the risks related to the use of the product and to select the PPE that matches the relevant risk. The following recommendations should be considered: PPE compliant to the recommended EN/ISO standards should be selected.
Eye/face protection	: Wear safety glasses with side shields. Standard EN 166 - Personal eye-protection - specifications.
Skin protection	
- Hand protection	: Wear working gloves when handling gas containers.
	Standard EN 388 - Protective gloves against mechanical risk.
- Other	: Wear safety shoes while handling containers. Standard EN ISO 20345 - Personal protective equipment - Safety footwear.
Respiratory protection	 Self contained breathing apparatus (SCBA) or positive pressure airline with mask are to be used in oxygen-deficient atmospheres. Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask.
Thermal hazards	: None necessary.
8.2.3. Environmental exposure controls	: Refer to local regulations for restriction of emissions to the atmosphere. See section 13 for specific methods for waste gas treatment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

 Physical state at 20°C / 101.3kPa 	: Gas
Colour	 Mixture contains one or more component(s) which have the following colour(s): Colourless.
Odour	 There may be no odour warning properties, odour is subjective and inadequate to warn of overexposure. Mixture contains one or more component(s) which have the following odour: Stenchant often added. Sweetish.
Odour threshold	: Odour threshold is subjective and inadequate to warn of overexposure.
pH	Odour threshold is subjective and inadequate to warn of overexposure. : Not applicable for gas mixtures.
Melting point / Freezing point	: Not applicable for gas mixtures.
Boiling point	: Not applicable for gas mixtures.
Flash point	: Not applicable for gas mixtures.
Evaporation rate	: Not applicable for gas mixtures.
Flammability (solid, gas)	:
Explosive limits	[:] Non flammable.
Vapour pressure [20°C]	: Not applicable.
Vapour pressure [50°C]	: Not applicable.



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Relative density, gas (air=1)	: Lighter or similar to air.
Partition coefficient n-octanol/water (Log Kow)	: Not applicable for gas mixtures.
Auto-ignition temperature	: Non flammable.
Viscosity	: Not applicable.
Explosive properties	: Not applicable.
Oxidising properties	: Not applicable.
9.2. Other information	
Molar mass	: Not applicable for gas mixtures.
Other data	: None.

SECTION 10: Stability and reactivity

10.1. Reactivity	
	: No reactivity hazard other than the effects described in sub-sections below.
10.2. Chemical stability	: Stable under normal conditions.
10.3. Possibility of hazardous reactions	
	: None.
10.4. Conditions to avoid	
	: None under recommended storage and handling conditions (see section 7).
10.5. Incompatible materials	: For additional information on compatibility refer to ISO 11114.
10.6. Hazardous decomposition products	
	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects	
Acute toxicity	: No toxicological effects from this product.
Skin corrosion/irritation	: No known effects from this product.
Serious eye damage/irritation	: No known effects from this product.
Respiratory or skin sensitisation	: No known effects from this product.
Germ cell mutagenicity	: No known effects from this product.
Carcinogenicity	: No known effects from this product.
Toxic for reproduction : Fertility	: No known effects from this product.
Toxic for reproduction : unborn child	: No known effects from this product.
STOT-single exposure	: No known effects from this product.
STOT-repeated exposure	: No known effects from this product.
Aspiration hazard	: Not applicable for gases and gas mixtures.

SECTION 12: Ecological information

12.1. Toxicity

Assessment

: Classification criteria are not met.



EC50 48h - Daphnia magna [mg/l]	: No data available.
EC50 72h - Algae [mg/l]	: No data available.
LC50 96 h - Fish [mg/l]	: No data available.
Propylene (115-07-1)	
EC50 48h - Daphnia magna [mg/l]	28.2 mg/l
EC50 72h - Algae [mg/l]	No data available.
EC50 96h Algae [mg/l]	12.1 mg/l
LC50 96 h - Fish [mg/l]	51.7 mg/l
12.2. Persistence and degradability	
Assessment	: No data available.
12.3. Bioaccumulative potential	
Assessment	: No data available.
12.4. Mobility in soil	
Assessment	: No data available.
12.5. Results of PBT and vPvB assessmer	<u>nt</u>
Assessment	: Not classified as PBT or vPvB.
12.6. Other adverse effects	
Effect on the ozone layer	: None.
Effect on global warming	: No known effects from this product.
SECTION 13: Disposal considerat	ions
12.1 Wasta tractment methods	
<u>13.1. Waste treatment methods</u>	Contract sumplies if suideness is new inst
	Contact supplier if guidance is required.
	Do not discharge into any place where its accumulation could be dangerous.
	Ensure that the emission levels from local regulations or operating permits are not exceeded.
	Refer to the EIGA code of practice Doc.30 "Disposal of Gases", downloadable at http://www.eiga.eu for more guidance on suitable disposal methods.
List of hazardous waste codes (from Commission Decision 2000/532/EC as amended)	: 16 05 05 : Gases in pressure containers other than those mentioned in 16 05 04.
13.2. Additional information	
	: None.
SECTION 44. Treasure of informer (
SECTION 14: Transport information	

SECTION 14: Transport information

UN-No.	: 1956
14.2. UN proper shipping name	
Transport by road/rail (ADR/RID)	COMPRESSED GAS, N.O.S. (Nitrogen, Propylene)
Transport by air (ICAO-TI / IATA-DGR)	Compressed gas, n.o.s. (Nitrogen, Propylene)
Transport by sea (IMDG)	COMPRESSED GAS, N.O.S. (Nitrogen, Propylene)
14.3. Transport hazard class(es)	

14.1. UN number



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2.2 : Non flammable, non-toxic gases.

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Labelling



Transport by road/rail (ADR/RID)	
Class	: 2
Classification code	: 1A
Hazard identification number	: 20
Tunnel Restriction	: E - Passage forbidden through tunnels of category E
Transport by air (ICAO-TI / IATA-DGR)	
Class / Div. (Sub. risk(s))	: 2.2
Transport by sea (IMDG)	
Class / Div. (Sub. risk(s))	: 2.2
Emergency Schedule (EmS) - Fire	: F-C
Emergency Schedule (EmS) - Spillage	: S-V
14.4. Packing group	
Transport by road/rail (ADR/RID)	: Not applicable
Transport by air (ICAO-TI / IATA-DGR)	: Not applicable
Transport by sea (IMDG)	: Not applicable
14.5. Environmental hazards	
Transport by road/rail (ADR/RID)	: None.
Transport by air (ICAO-TI / IATA-DGR)	: None.
Transport by sea (IMDG)	: None.
14.6. Special precautions for user	
Packing Instruction(s)	
Transport by road/rail (ADR/RID)	: P200
Transport by air (ICAO-TI / IATA-DGR)	. 1200
Passenger and Cargo Aircraft	: 200.
Cargo Aircraft only	: 200.
Transport by sea (IMDG)	: P200
Special transport precautions	: Avoid transport on vehicles where the load space is not separated from the driver's compartment.
	Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency.
	Before transporting product containers:
	- Ensure there is adequate ventilation.
	- Ensure that containers are firmly secured.
	- Ensure cylinder valve is closed and not leaking.
	- Ensure valve outlet cap nut or plug (where provided) is correctly fitted.
	- Ensure value protection device (where provided) is correctly fitted

- Ensure valve protection device (where provided) is correctly fitted.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

: Not applicable.



SECTION 15: Regulatory information 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture		
Seveso Directive : 2012/18/EU (Seveso III)	: Not covered.	
National regulations		
National legislation	: Ensure all national/local regulations are observed.	
15.2. Chemical safety assessment		
	: A CSA does not need to be carried out for this product.	
SECTION 16: Other information		
Indication of changes	. Deviced active data sheat in accordance with commission regulation (EU) No. 2015/020	

Indication of changes	: Revised safety data sheet in accordance with commission regulation (EU) No 2015/830.
Training advice	: Receptacle under pressure.
Further information	: This Safety Data Sheet has been established in accordance with the applicable European Union legislation.
	Classification in accordance with the calculation methods of Regulation (EC) 1272/2008 CLP.

Full text of H- and EUH-statements

Flam. Gas 1	Flammable gases, Category 1
Press. Gas (Comp.)	Gases under pressure : Compressed gas
Press. Gas (Liq.)	Gases under pressure : Liquefied gas
H220	Extremely flammable gas.
H280	Contains gas under pressure; may explode if heated.

DISCLAIMER OF LIABILITY

: Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out.

Details given in this document are believed to be correct at the time of going to press.

Whilst proper care has been taken in the preparation of this document, no liability for injury or damage resulting from its use can be accepted.