

C3H8 0,2 %;C0 3,5 %;C02 14 %;N2 82,3 % in Minican

Issue Date:	29.04.2015	Version: 1.0	SDS No.: 000010022900
Last revised date:	10.12.2015		1/17

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name:	C3H8 0,2 %;C0 3,5 %;C02 14 %;N2 82,3 % in Minican

Trade name: Prüfgas A für Abgasuntersuchung

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses:Industrial and professional. Perform risk assessment prior to use.Uses advised againstConsumer use.

1.3 Details of the supplier of the safety data sheet

Supplier Linde Gas GmbH Carl-von-Linde-Platz 1 A-4651 Stadl-Paura

Telephone: +43 50 4273

E-mail: office@at.linde-gas.com

1.4 Emergency telephone number: Emergency number Linde: + 43 50 4273 (during business hours), Poisoning Information Center: +43 1 406 43 43

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC as amended.

Repr. 1; R61 Xn; R20 Xn; R48/20

The full text for all R-phrases is displayed in section 16.

Classification according to Regulation (EC) No 1272/2008 as amended.

Physical Hazards

Gases under pressure	Compressed gas	H280: Contains gas under pressure; may explode if heated.
Health Hazards		
Toxic to reproduction	Category 1A	H360D: May damage the unborn child.
Specific Target Organ Toxicity - Repeated Exposure	Category 2	H373: May cause damage to organs through prolonged or repeated exposure.



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2.2 Label Elements			
Contains:	carbon mon	oxide	
Signal Words:	Danger		
Hazard Statemer	nt(s): H280: Conta	ains gas under pressure; may explod	le if heated.
	H360D: May H373: May	/ damage the unborn child. cause damage to organs through pro	blonged or repeated exposure.
Precautionary St	atement		
Prevention:	P202: Do no	ot handle until all safety precautions	have been read and
	P260: Do no	ot breathe gas/vapors.	
Response:	P308+P313	· IF exposed or concerned· Get medi	cal advice/attention
Storage:	P403: Store	in a well-ventilated place.	
Disposal:	None.		
Supplemental la	bel information		
	Restricted t	o professional users.	
2.3 Other hazards:	None.		

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical name	Chemical formula	Concentration	CAS-No.	EC No.	REACH Registration No.	Notes
Carbon dioxide	CO2	14%	124-38-9	204-696-9	Listed in Annex IV/V of Regulation (EC) No 1907/2006 (REACH), exempted from registration.	#
carbon monoxide	СО	3,5000%	630-08-0	211-128-3	01-2119480165-39	#
propane	C3H8	2.000PPM	74-98-6	200-827-9	01-2119486944-21	#
Nitrogen	N2	82,3000%	7727-37-9	231-783-9	Listed in Annex IV/V of Regulation (EC) No 1907/2006 (REACH), exempted from	



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The concentrations of the components in the SDS header, product name on page one and in section 3.2 are in mol due to regulatory requirements. All concentrations are nominal.

This substance has workplace exposure limit(s).

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

Classification

Chemical name	Classificat	ion	Notes
Carbon dioxide	DSD:	none	
	CLP:	Press. Gas Liquef. Gas;H280	
carbon monoxide	DSD:	F+; R12 Repr. 1; R61 T; R23, R48/23	
	CLP:	Flam. Gas 1;H220, Press. Gas Compr. Gas;H280, Repr. 1A;H360D, Acute Tox. 3;H331, STOT RE 1;H372	
propane	DSD:	F+; R12	
	CLP:	Flam. Gas 1;H220, Press. Gas Liquef. Gas;H280	
Nitrogen	DSD:	none	
	CLP:	Press. Gas Compr. Gas;H280	
DSD: Directive 67/548/EEC.	1		I

CLP: Regulation No. 1272/2008.

The full text for all R-phrases and H-statements is displayed in section 16.

SECTION 4: First aid measures	
General:	Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing stopped.
4.1 Description of first aid measures	
Inhalation:	Low concentrations of CO2 cause increased respiration and headache. Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing stopped.
Eye contact:	Adverse effects not expected from this product.
Skin 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:	Danger of serious damage to health by prolonged exposure.



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4.3 Indication of any imme	diate medical att	ention and special treatment needed	
Hazards:	Dange	er of serious damage to health by prolonged	exposure.
Treatment:	Get in	Get immediate medical advice/attention.	
SECTION 5: Firefighting m	easures		
General Fire Hazards:	Heat	may cause the containers to explode.	
5.1 Extinguishing media			
Suitable extinguishing	media: Use w Foam	vater spray to reduce vapors or divert vapor o Carbon Dioxide.	cloud drift. Water. Dry powder.
Unsuitable extinguishi media:	ng None		
5.2 Special hazards arising substance or mixture:	from the No da	ta available.	
5.3 Advice for firefighters			
Special fire fighting procedures:	In cas water positi the so	e of fire: Stop leak if safe to do so. Keep run- sources. Dike for water control. Continue wa on until container stays cool. Use extinguish purce of the fire or let it burn out.	off water out of sewers and ater spray from protected ants to contain the fire. Isolate
Special protective equi for fire-fighters:	pment Gas ti conta Guide aeros chem	ght chemically protective clothing (Type 1) i ined breathing apparatus. Iline: EN 943-2 Protective clothing against lic ols and solid particles. Performance requirer ical protective suits for emergency teams (E	n combination with self quid and gaseous chemicals, nents for gas-tight (Type 1) T)

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:	Evacuate area. Provide adequate ventilation. Monitor the concentration of the released product. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. EN 137 Respiratory protective devices - Self-contained open-circuit compressed air breathing apparatus with full face mask - Requirements, testing, marking.
6.2 Environmental Precautions:	Prevent further leakage or spillage if safe to do so. Reduce vapour with fog or fine water spray. Keep run-off water out of sewers and water sources. Dike for water control.
6.3 Methods and material for containment and cleaning up:	Provide adequate ventilation.
6.4 Reference to other sections:	Refer to sections 8 and 13.



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SECTION 7: Handling and storage:

7.1 Precautions for safe handling:	Only experienced and properly instructed persons should handle gases under pressure. Avoid exposure - obtain special instructions before use. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Installation of a cross purge assembly between the container and the regulator is recommended. Excess pressure must be vented through an appropriate scrubber system. Refer to supplier's handling instructions. The substance must be handled in accordance with good industrial hygiene and safety procedures. Protect containers from physical damage; do not drag, roll, slide or drop. Do not remove or deface labels provided by the supplier for the identification of the container contents. When moving containers, even for short distances, use appropriate equipment eg. trolley, hand truck, fork truck etc. Secure cylinders in an upright position at all times, close all valves when not in use. Provide adequate ventilation. Suck back of water into the container must be prevented. Do not allow backfeed into the container. Avoid suckback of water, acid and alkalis. Keep container below 50°C in a well ventilated place. Observe all regulations and local requirements regarding storage of containers. When using do not eat, drink or smoke. Store in accordance with local/regional/national/international regulations. Never use direct flame or electrical heating devices to raise the pressure of a container. 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. Damaged valves should be reported immediately to the supplier Close container valve after each use and when empty, even if still connected to equipment. Never attempt to repair or modify container valves or safety relief devices. Replace valve outlet caps or plugs and container caps where supplied as soon as container is disconnected from equipment. Keep container valve outlets clean and free from contaminates particularly oil a
7.2 Conditions for safe storage, including any incompatibilities:	Containers should not be stored in conditions likely to encourage corrosion. Keep away from food, drink and animal feeding stuffs. Stored containers should be periodically checked for general conditions and leakage. Container valve guards or caps should be in place. Store containers in location free from fire risk and away from sources of heat and ignition. Keep away from combustible material.
7.3 Specific end use(s):	None.





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SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

Chemical name	type	Exposure Lim	nit Values	Source
Carbon dioxide	TWA	5.000 ppm	9.000	EU. Indicative Exposure Limit Values in
			mg/m3	Directives 91/322/EEC, 2000/39/EC,
				2006/15/EC, 2009/161/EU (12 2009)
	MAK	5.000 ppm	9.000	Austria. MAK List, OEL Ordinance (GwV),
			mg/m3	BGBI. II, no. 184/2001 (09 2007)
	MAK CEIL	10.000 ppm	18.000	Austria. MAK List, OEL Ordinance (GwV),
			mg/m3	BGBI. II, no. 184/2001 (09 2007)
carbon monoxide	MAK	30 ppm	33 mg/m3	Austria. MAK List, OEL Ordinance (GwV),
				BGBI. II, no. 184/2001 (09 2007)
	MAK STEL	60 ppm	66 mg/m3	Austria. MAK List, OEL Ordinance (GwV),
			-	BGBI. II, no. 184/2001 (09 2007)
propane	MAK	1.000 ppm	1.800	Austria. MAK List, OEL Ordinance (GwV),
			mg/m3	BGBI. II, no. 184/2001 (09 2007)
	MAK CEIL	2.000 ppm	3.600	Austria. MAK List, OEL Ordinance (GwV),
			mg/m3	BGBI. II, no. 184/2001 (09 2007)

DNEL-Values

Critical component	type	Value	Remarks
carbon monoxide	Worker - inhalative, long-	23 mg/m3	-
	term - systemic		
	Worker - inhalative, short-	117 mg/m3	-
	term - systemic	_	
	Worker - inhalative, long-	23 mg/m3	-
	term - local		
	Worker - inhalative, short-	117 mg/m3	-
	term - local	_	

PNEC-Values

Critical component	type	Value	Remarks
carbon monoxide			PNEC not available.

8.2 Exposure controls

Appropriate engineering controls:

Consider a work permit system e.g. for maintenance activities. Ensure adequate air ventilation. Provide adequate general and local exhaust ventilation. Keep concentrations well below occupational exposure limits. Systems under pressure should be regularly checked for leakages. Product to be handled in a closed system and under strictly controlled conditions. Only use permanent leak tight installations (e.g. welded pipes). Do not eat, drink or smoke when using the product.



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Individual protection r	neasures, such as perso	onal protective equipment	
General information:	A risk asses assess the matches th Keep self c Keep suital emergency based on th skin from c emissions t treatment.	essment should be conducted and doc risks related to the use of the produc e relevant risk. The following recommontained breathing apparatus readily ble chemically resistant protective clu- use. Personal protective equipment he task being performed and the risk pontact with product. Refer to local re o the atmosphere. See section 13 for	umented in each work area to t and to select the PPE that mendations should be considered. y available for emergency use. othing readily available for for the body should be selected s involved. Protect eyes, face and gulations for restriction of r specific methods for waste gas
Eye/face protection:	Wear eye p Guideline: I	rotection to EN 166 when using gase EN 166 Personal Eye Protection.	2S.
Skin protection Hand Protection:	Wear work Guideline: Chemically when hand Guideline: organisms.	ing gloves while handling containers EN 388 Protective gloves against me resistant gloves complying with EN 3 ling chemical products if a risk asses EN 374-1/2/3 Protective gloves aga	chanical risks. 374 should be worn at all times sment indicates this is necessary. inst chemicals and micro-
Body protection:	No special	precautions.	
Other:	Wear safet Guideline:	y shoes while handling containers SO 20345 Personal protective equip	ment - Safety footwear.
Respiratory Protection	n: Reference assessmen documents selection o anticipated limits of the	should be made to European Standar t of exposure by inhalation to chemic for methods for the determination o f the Respiratory Protective Device (exposure levels, the hazards of the e selected RPD.	d EN 689 for methods for the cal agents and national guidance f hazardous substances. The RPD) must be based on known or product and the safe working
Thermal hazards:	No precaut	ionary measures are necessary.	
Hygiene measures:	Obtain spe required be or smoke w	cial instructions before use. Specific i eyond good industrial hygiene and sa /hen using the product.	risk management measures are not afety procedures. Do not eat, drink
Environmental exposu controls:	re For waste c	lisposal, see section 13 of the SDS.	



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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical pro	operties
Appearance	
Physical state:	Gas
Form:	Compressed gas
Color:	CO2: Colorless CO: Colorless C3H8: Colorless N2: Colorless
Odor:	CO2: Odorless CO: Odorless C3H8: Odorless N2: Odorless gas
Odor Threshold:	Odor threshold is subjective and is inadequate to warn of over exposure.
pH:	not applicable.
Melting Point:	No data available.
Boiling Point:	No data available.
Sublimation Point:	not applicable.
Critical Temp. (°C):	No data available.
Flash Point:	Not applicable to gases and gas mixtures.
Evaporation Rate:	Not applicable to gases and gas mixtures.
Flammability (solid, gas):	This product is not flammable.
Flammability Limit - Upper (%):	not applicable.
Flammability Limit - Lower (%):	not applicable.
Vapor pressure:	No reliable data available.
Vapor density (air=1):	1,07 (calculated) (15 °C)
Relative density:	No data available.
Solubility(ies)	
Solubility in Water:	No data available.
Partition coefficient (n-octanol/water):	Not known.
Autoignition Temperature:	not applicable.
Decomposition Temperature:	Not known.
Viscosity	
Kinematic viscosity:	No data available.
Dynamic viscosity:	No data available.
Explosive properties:	Not applicable.
Oxidizing properties:	not applicable.
9.2 Other information:	Gas/vapour heavier than air. May accumulate in confined

spaces, particularly at or below ground level.



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SECTION 10: Stability	and reactivity			
10.1 Reactivity:		No reactivity hazard other than the effects descr	ibed in sub-section below.	
10.2 Chemical Stability	/:	Stable under normal conditions.		
10.3 Possibility of Haza Reactions:	ardous	No data available.		
10.4 Conditions to Avo	id:	Avoid moisture in the installation.		
10.5 Incompatible Mat	erials:	Moisture. For material compatibility see latest version of ISO-11114.		
10.6 Hazardous Decom Products:	nposition	Under normal conditions of storage and use, hazardous decomposition products should not be produced.		
SECTION 11: Toxicolog	gical informatio	n		
General informat	ion:	Carbon monoxide: Has been shown to produce a cardiovascular, central nervous, and reproductiv and chronically exposed humans.	adverse effects to the re systems in laboratory animals	
11.1 Information on to	xicological effect	ts		
Acute toxicity - O Product	ral	Based on available data, the classification criter	ia are not met.	
Acute toxicity - D Product	ermal	Based on available data, the classification criter	ia are not met.	
Acute toxicity - In Product	halation	ATEmix (4 h): > 20000 ppm		
Component Info carbon mon	ormation oxide	LC 50 (Rat, 4 h): 1300 ppm LC 50 (Rat, 1 h): 3760 ppm		
Repeated dose to Component Info carbon mon	oxicity ormation oxide	LOAEC (Rat, Inhalation): 200 ppm (Target Organ((s): Respiratory system)	
Skin Corrosion/In Product	ritation	Based on available data, the classification criteri	a are not met.	



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Component Informa carbon monoxide	a tion e Not	classified as an irritant.	
Serious Eye Damage/ Product	Eye Irritation Bas	ed on available data, the classification criteria are r	not met.
Component Informa carbon monoxide	a tion e Not	classified as an irritant.	
Respiratory or Skin Se Product	ensitization Bas	ed on available data, the classification criteria are r	not met.
Component Informa carbon monoxide	ation e No	known effects from this product.	
Germ Cell Mutagenici Product	ty Bas	ed on available data, the classification criteria are r	not met.
Component Informa carbon monoxide	ation The	re is no evidence of mutagenic potential.	
Carcinogenicity Product	Bas	ed on available data, the classification criteria are r	not met.
Component Informa carbon monoxide	ation No	evidence of carcinogenic effects.	
Reproductive toxicity Product	Ma	y damage fertility or the unborn child.	
Component Informa carbon monoxide	ation Ma <u>y</u>	y damage fertility or the unborn child.	
Reproductive toxicity Component Informa carbon monoxide	(Fertility) ation NO	AEC (embryotoxicity): 65 ppm	





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Developmental toxic Component Inform	ity (Teratogenicity) ation		
carbon monoxide	LOAEC: 125	ppm	
Specific Target Organ	n Toxicity - Single Exposu	re	·
Product	Based on av	allable data, the classification criter	la are not met.
Component Inform	ation		
carbon monoxide	Route of Exp	oosure: Inhalation	
	Target Orga	n(s): Blood	
	Causes dam	age to red blood cells (haemolytic p	oison). Carbon monoxide binds
	reversibly to	haemoglobin (Hb) to form carboxy	haemoglobin (CoHb), reducing
	the capacity	of the blood to transport oxygen.	
Specific Target Orga	Tovicity - Reneated Evr	OCURA	
Product	May cause of	lamage to organs through prolonged	d or repeated exposure.
			· · · · · · · · · · · · · · · · · ·
Component Inform	ation		
carbon monoxide	Route of Exp	oosure: Inhalation	
	larget Orga	n(s): Heart	
	RISK UI SEITC	us nearth figures in case of fong ten	in exposure.
Aspiration Hazard			
Product	Not applical	ble to gases and gas mixtures	
Γ			
SECTION 12: Ecological ir	nformation		
12.1 Toxicity			
Acute toxicity			
Product	No ecologic	al damage caused by this product.	
Acute toxicity - Fish	ation		
	LC50 (Fish	96 b) · 19 9 mg/l	
propune	2000 (1131),	50 H). 47,7 Hig/T	
Acute toxicity - Aqua	tic Invertebrates		
Component Inform	ation		<i>"</i>
propane	EC50 (Wate	r flea (Daphnia magna), 48 h): 27,1 i	mg/I
Toxicity to microorga	inisms		
Component Inform	ation		
propane	EC50 (Alga,	72 h): 11,9 mg/l	
·	-		



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12.2 Persistence and Dec Product	gradability No	t applicable to gases and gas mixtures	
Component Inforr carbon monoxide	mation Wi	ll not undergo hydrolysis.	
Biodegradation Component Inforr carbon monoxide	nation e No	t readily biodegradable. Inorganic compound.	
12.3 Bioaccumulative Po Product	tential The pe	e product is expected to biodegrade and is not expec riods in an aquatic environment.	ted to persist for long
Component Inforr carbon monoxide	mation Be	cause of the low log Kow, accumulation in organisms	is not expected.
12.4 Mobility in Soil Product	Be po	cause of its high volatility, the product is unlikely to c llution.	cause ground or water
Component Inforr carbon monoxide	nation Be po	cause of its high volatility, the product is unlikely to c llution.	ause ground or water
12.5 Results of PBT and v assessment Product	₽vB Nc	t classified as PBT or vPvB.	
12.6 Other Adverse Effec	ts:		
Global Warming Pot	ential Glo Co dis	obal warming potential: 0,3 ntains fluorinated greenhouse gases covered by the scharged in large quantities may contribute to the gre	Kyoto protocol. When eenhouse effect.
Component Inforr Carbon dioxide	nation Glo	bbal warming potential: 1	
carbon monoxide	e Glo	bbal warming potential: 1,9	
propane	Glo	obal warming potential: 3	



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SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information:	Avoid discharges to atmosphere. Consult supplier for specific recommendations.		
Disposal methods:	Refer to the EIGA code of practice (Doc.30 "Disposal of Gases", downloadable at http://www.eiga.org) for more guidance on suitable disposal methods. Dispose of container via supplier only. Discharge, treatment, or disposal may be subject to national, state, or local laws.		
European Waste Codes Container:	16 05 04*: Gases in pressure containers (including halons) containing dangerous substances.		

SECTION 14: Transport information

ADR	
14.1 UN Number:	UN 1950
14.2 UN Proper Shipping Name:	AEROSOLS
14.3 Transport Hazard Class(es)	
Class:	2
Label(s):	2.2
Hazard No. (ADR):	_
Tunnel restriction code:	(E)
14.4 Packing Group:	_
14.5 Environmental hazards:	not applicable
14.6 Special precautions for user:	-
RID	
14.1 UN Number:	UN 1950
14.2 UN Proper Shipping Name	AEROSOLS
14.3 Transport Hazard Class(es)	
Class	2
l abel(s).	22
	2.2
14.4 Packing Group:	
14.5 Environmental hazards:	not applicable
14.6 Special precautions for user:	-



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IMDG 14.1 UN Number: 14.2 UN Proper Shipp 14.3 Transport Hazar Class: Label(s): EmS No.: 14.3 Packing Group: 14.5 Environmental I	bing Name: d Class(es)	UN 1950 AEROSOLS 2.2 2.2 F-D, S-U - not applicable	147 17
14.6 Special precaut	ions for user:	-	
IATA 14.1 UN Number		UN 1950	
14.2 Proper Shipping 14.3 Transport Hazar	Name: d Class(es):	Aerosols, non-flammable	
Class:		2.2	
Label(s):		2.2	
14.4 Packing Group: 14.5 Environmental I 14.6 Special precaut Other informati	nazards: ions for user: on	- not applicable -	
Passenger ar	nd cargo aircraft:	Allowed.	
Cargo aircraf	t only:	Allowed.	
14.7 Transport in bu	Ik according to Anr	nex II of MARPOL73/78 and the IBC Code: not ap	plicable
Additional ider	ntification:	Avoid transport on vehicles where the load sp	pace is not separated from

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 that they are firmly secured. Ensure that the container valve is closed and not leaking. Container valve guards or caps should be in place. Ensure adequate air ventilation.

SECTION 15: Regulatory information

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

EU Regulations

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use:

Chemical name	CAS-No.	Concentration
carbon monoxide	630-08-0	1,0 - 10%
propane	74-98-6	0,1 - 1,0%



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Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work.:

Chemical name	CAS-No.	Concentration
propane	74-98-6	0,1 - 1,0%

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding.:

Chemical name	CAS-No.	Concentration
carbon monoxide	630-08-0	1,0 - 10%
propane	74-98-6	0,1 - 1,0%

Directive 96/61/EC: concerning integrated pollution prevention and control (IPPC): Article 15, European Pollution Emission Registry (EPER):

Chemical name	CAS-No.	Concentration
Carbon dioxide	124-38-9	10 - 20%
carbon monoxide	630-08-0	1,0 - 10%

Directive 96/82/EC (Seveso II): on the control of major accident hazards involving dangerous substances:

Chemical name	CAS-No.	Concentration
carbon monoxide	630-08-0	1,0 - 10%
propane	74-98-6	0,1 - 1,0%

Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work:

Chemical name	CAS-No.	Concentration
carbon monoxide	630-08-0	1,0 - 10%
propane	74-98-6	0,1 - 1,0%

National Regulations

Council Directive 89/391/EEC on the introduction of measures to encourage improvements in the safety and health of workers at work Directive 89/686/EEC on personal protective equipment Only products that comply with the food regulations (EC) No. 1333/2008 and (EU) No. 231/2012 and are labelled as such may be used as food additives.

This Safety Data Sheet has been produced to comply with Regulation (EU) 453/2010.



SAFETY DATA SHEET

C3H8 0,2 %;CO 3,5 %;CO2 14 %;N2 82,3 % in Minican

Issue Date:	29.04.2015	Version: 1.0	SDS No.: 000010022900
Last revised date:	10.12.2015		16/17

15.2 Chemical safety assessment: No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Revision Information:	Not relevant.				
Key literature references and sources for data:	Various sources of data have been used in the compilation of this SDS, they include but are not exclusive to: Agency for Toxic Substances and Diseases Registry (ATSDR) (http://www.atsdr.cdc.gov/). European Chemical Agency: Guidance on the Compilation of Safety Data Sheets. European Chemical Agency: Information on Registered Substances http://apps.echa.europa.eu/registered/registered-sub.aspx#search European Industrial Gases Association (EIGA) Doc. 169 Classification and Labelling guide. International Programme on Chemical Safety (http://www.inchem.org/) ISO 10156:2010 Gases and gas mixtures - Determination of fire potential and oxidizing ability for the selection of cylinder valve outlets. Matheson Gas Data Book, 7th Edition. National Institute for Standards and Technology (NIST) Standard Reference Database Number 69. The ESIS (European chemical Substances 5 Information System) platform of the former European Chemical Substances 5 Information System) platform of the former European Chemical Substances 5 Information System) platform of the former European Chemical Substances 5 Information System) platform of the former European Chemical Substances 5 Information System) platform of the former European Chemical Industry Council (CEFIC) ERICards. United States of America's National Library of Medicine's toxicology data network TOXNET (http://toxnet.nlm.nih.gov/index.html) Threshold Limit Values (TLV) from the American Conference of Governmental Industrial Hygienists (ACGIH). Substance specific information from suppliers.				
Wording of the K-phrases and H-statements in section 2 and 3					
	H280	Contains gas under pressure: may explode if heated.			
	H331	Toxic if inhaled.			
	H360D	May damage the unborn child.			
	H372	Causes damage to organs through prolonged or repeated exposure.			
	H373	May cause damage to organs through prolonged or repeated exposure.			
	R12	Extremely flammable.			
	R20	Harmful by inhalation.			
	R23	Toxic by inhalation.			
	R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.			
	D10/22	Toxic: danger of serious damage to health by prolonged expessive			

- R48/23 Toxic: danger of serious damage to health by prolonged exposure through inhalation.
- R61 May cause harm to the unborn child.



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Training information:	Users of breatl toxicity hazard	Users of breathing apparatus must be trained. Ensure operators understand the toxicity hazard.			
Classification according	to Regulation (EC) No 127	2/2008 as amended.			
	Repr. 1A, H360	Repr. 1A, H360D			
	STOT RE 2, H37	STOT RE 2, H373			
	Press. Gas Con	npr. Gas, H280			
Other information:	Before using th compatibility a Ensure all nativ taken in the pr from its use ca	e using this product in any new process or experiment, a thorough material atibility and safety study should be carried out. Ensure adequate air ventilation. e all national/local regulations are observed. Whilst proper care has been in the preparation of this document, no liability for injury or damage resulting ts use can be accepted.			
Last revised date:	10.12.2015				
Disclaimer:	claimer: This information is provided without warranty. The information is believed to correct. This information should be used to make an independent determina the methods to safeguard workers and the environment.				