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

1.1 Product identifier

Product name: C2H4O 6 %;CO2 94 %

Trade name: Gasart 386 Sterilisiergas 6 % Ethylenoxid, Rest Kohlendioxid

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 against Consumer use.

1.3 Details of the supplier of the safety data sheet

Supplier

Linde Gas GmbH Telephone: +43 50 4273

Carl-von-Linde-Platz 1 A-4651 Stadl-Paura

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.

R6 Carc. 2; R45 Muta. 2; R46 T; R23 Xi; R36/37/38

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

Germ Cell Mutagenicity Category 1B H340: May cause genetic defects.

Carcinogenicity Category 1B H350: May cause cancer.

Specific Target Organ Toxicity - Category 3 H335: May cause respiratory irritation.

Single Exposure



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2.2 Label Elements

Contains: Ethylene oxide



Signal Words: Danger

Hazard Statement(s): H280: Contains gas under pressure; may explode if heated.

H335: May cause respiratory irritation. H340: May cause genetic defects.

H350: May cause cancer.

Precautionary Statement

Prevention: P202: Do not handle until all safety precautions have been read and

understood.

P260: Do not breathe gas/vapors.

P280: Wear protective gloves/protective clothing/eye protection/face

protection.

Response: P304+P340+P315: IF INHALED: Remove person to fresh air and keep

comfortable for breathing. Get immediate medical advice/attention. P308+P313: IF exposed or concerned: Get medical advice/attention.

Storage: P403: Store in a well-ventilated place.

Disposal: None.

Supplemental label information

Restricted to professional users.

2.3 Other hazards: None.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical name	Chemical	Concentration	CAS-No.	EC No.	REACH Registration	Notes
	formula				No.	
Ethylene oxide	C2H4O	6%	75-21-8	200-849-9	01-2119432402-53	#
Carbon dioxide	CO2	94%	124-38-9	204-696-9	Listed in Annex IV/V of Regulation (EC) No 1907/2006 (REACH), exempted from registration.	#





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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	Classificati	Classification	
Ethylene oxide	DSD:	DSD: R6 F+; R12 Carc. 2; R45 Muta. 2; R46 T; R23 Xi; R36/37/38	
	CLP:	Chem. Unst. Gas A;H230, Flam. Gas 1;H220, Press. Gas Liquef. Gas;H280, Carc. 1B;H350, Muta. 1B;H340, Acute Tox. 3;H331, Eye Irrit. 2;H319, STOT SE 3;H335, Skin Irrit. 2;H315	
Carbon dioxide	DSD:	none	
	CLP:	Press. Gas Liquef. Gas;H280	

DSD: Directive 67/548/EEC. 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.

4.3 Indication of any immediate medical attention and special treatment needed

Hazards: Danger of serious damage to health by prolonged exposure.

Treatment: Get immediate medical advice/attention.





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SECTION 5: Firefighting measures

General Fire Hazards: Heat may cause the containers to explode.

5.1 Extinguishing media

Suitable extinguishing media: Use water spray to reduce vapors or divert vapor cloud drift. Water. Dry powder.

Foam. Carbon Dioxide.

Unsuitable extinguishing

media:

None.

5.2 Special hazards arising from the

substance or mixture:

No data available.

5.3 Advice for firefighters

Special fire fighting

procedures:

In case of fire: Stop leak if safe to do so. Keep run-off water out of sewers and water sources. Dike for water control. Continue water spray from protected position until container stays cool. Use extinguishants to contain the fire. Isolate

the source of the fire or let it burn out.

Special protective equipment

for fire-fighters:

Gas tight chemically protective clothing (Type 1) in combination with self

contained breathing apparatus.

Guideline: EN 943-2 Protective clothing against liquid and gaseous chemicals, aerosols and solid particles. Performance requirements for gas-tight (Type 1)

chemical protective suits for emergency teams (ET)

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 sect

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 and water. If user experiences any difficulty operating container valve discontinue use and contact supplier. Never attempt to transfer gases from one container to another. Container valve guards or caps should be in place.

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 Limit 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)
Ethylene oxide	TRK	1 ppm	2 mg/m3	Austria. TRK List, OEL Ordinance (GwV),
-			_	BGBI. II, no. 184/2001 (09 2007)
	TRK STEL	4 ppm	8 mg/m3	Austria. TRK List, OEL Ordinance (GwV),
			-	BGBI. II, no. 184/2001 (09 2007)

DNEL-Values

Critical component	type	Value	Remarks
Ethylene oxide	Worker - inhalative, short- term - systemic	5 mg/m3	-
	Worker - inhalative, long- term - systemic	1,6 mg/m3	-

PNEC-Values

Critical component	type	Value	Remarks
Ethylene oxide	Aquatic (freshwater)	0,084 mg/l	-
	Aquatic (intermit. releases)	0,84 mg/l	-
	Sediment (marine water)	0,0329	-
		mg/kg	
	Sewage treatment plant	13 mg/l	-
	Soil	0,0165	-
		mg/kg	
	Aquatic (marine water)	0,0084	-
		mg/I	
	Sediment (freshwater)	0,329	-
		mg/kg	

8.2 Exposure controls

Appropriate engineering

No data available.

controls:

Individual protection measures, such as personal protective equipment

General information: No data available.

Eye/face protection: No data available.





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Skin protection

Hand Protection: No data available.

Body protection: No special precautions.

Other: not applicable.

Respiratory Protection: not applicable.

Thermal hazards: not applicable.

Hygiene measures: not applicable.

Environmental exposure

controls:

not applicable.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state: Gas

Form: Compressed gas Color: C2H4O: Colorless CO2: Colorless

Odor: C2H4O: Ether-like odor

CO2: Odorless

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): 1,55 (calculated) (15 °C)

Relative density: No data available.

Solubility(ies)

No data available. **Solubility in Water:**

Partition coefficient (n-octanol/water): Not known. **Autoignition Temperature:** not applicable.

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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.

SECTION 10: Stability and reactivity

No reactivity hazard other than the effects described in sub-section below. 10.1 Reactivity:

10.2 Chemical Stability: Stable under normal conditions.

10.3 Possibility of Hazardous

Reactions:

No data available.

10.4 Conditions to Avoid: Avoid moisture in the installation.

10.5 Incompatible Materials: Moisture. For material compatibility see latest version of 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

General information: None.

11.1 Information on toxicological effects

Acute toxicity - Oral

Product Based on available data, the classification criteria are not met.

Acute toxicity - Dermal

Product Based on available data, the classification criteria are not met.

Acute toxicity - Inhalation

Product ATEmix (4 h): > 20000 ppm

Component Information

Ethylene oxide LC 50 (Rat, 1,0 h): 2900 ppm





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Skin Corrosion/Irritation

Product Based on available data, the classification criteria are not met.

Component Information

Ethylene oxide Irritating

Serious Eye Damage/Eye Irritation

Product Based on available data, the classification criteria are not met.

Component Information

Ethylene oxide Irritating

Respiratory or Skin Sensitization

Product Based on available data, the classification criteria are not met.

Germ Cell Mutagenicity

Product May cause genetic defects.

Carcinogenicity

Product May cause cancer.

Reproductive toxicity

Product Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity - Single Exposure

Product May cause respiratory irritation.

Component Information

Ethylene oxide Causes damage to red blood cells (haemolytic poison). Causes irritation to the

respiratory tract

Specific Target Organ Toxicity - Repeated Exposure

Product Based on available data, the classification criteria are not met.

Component Information

Ethylene oxide Causes damage to red blood cells (haemolytic poison).

Aspiration Hazard

Product Not applicable to gases and gas mixtures..





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SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity

Product No ecological damage caused by this product.

Acute toxicity - Fish Component Information

Ethylene oxide LC 50 (Fathead minnow (Pimephales promelas), 96 h): 73 - 96 mg/l (Static)

Remarks: Mortality

Acute toxicity - Aquatic Invertebrates

Component Information

Ethylene oxide LC 50 (Water flea (Daphnia magna), 48 h): 150 - 243 mg/l (Static) Remarks:

Mortality

Toxicity to microorganisms
Component Information

Ethylene oxide EC50 (Alga, 72 h): 240 mg/l

12.2 Persistence and Degradability

Product Not applicable to gases and gas mixtures..

12.3 Bioaccumulative Potential

Product The product is expected to biodegrade and is not expected to persist for long

periods in an aquatic environment.

12.4 Mobility in Soil

Product Because of its high volatility, the product is unlikely to cause ground or water

pollution.

12.5 Results of PBT and vPvB

assessment

Product Not classified as PBT or vPvB.

12.6 Other Adverse Effects:

Global Warming Potential

Global warming potential: 0,9

When discharged in large quantities may contribute to the greenhouse effect.

Component Information

Carbon dioxide Global warming potential: 1





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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 1956

14.2 UN Proper Shipping Name: COMPRESSED GAS, N.O.S. (Carbon Dioxide, Ethylene Oxide)

14.3 Transport Hazard Class(es)

Class: 2
Label(s): 2.2
Hazard No. (ADR): 20
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 1956

14.2 UN Proper Shipping Name COMPRESSED GAS, N.O.S. (Carbon Dioxide, Ethylene Oxide)

14.3 Transport Hazard Class(es)

Class: 2
Label(s): 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: UN 1956

14.2 UN Proper Shipping Name: COMPRESSED GAS, N.O.S. (Carbon Dioxide, Ethylene Oxide)

14.3 Transport Hazard Class(es)

Class: 2.2 Label(s): 2.2 EmS No.: F-C, S-V

14.3 Packing Group:

14.5 Environmental hazards: not applicable

14.6 Special precautions for user:

IATA

14.1 UN Number: UN 1956

14.2 Proper Shipping Name: Compressed gas, n.o.s. (Carbon Dioxide, Ethylene Oxide)

14.3 Transport Hazard Class(es):

Class: 2.2 Label(s): 2.2 14.4 Packing Group:

14.5 Environmental hazards: not applicable

14.6 Special precautions for user:

Other information

Passenger and cargo aircraft: Allowed. Cargo aircraft only: Allowed.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: not applicable

Additional identification: 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:

The packaging shall be visibly, legibly and indelibly marked as follows: Restricted to professional users.

Chemical name	CAS-No.	Concentration
Ethylene oxide	75-21-8	1,0 - 10%



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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
Ethylene oxide	75-21-8	1,0 - 10%

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
Ethylene oxide	75-21-8	1,0 - 10%

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	90 - 100%
Ethylene oxide	75-21-8	1,0 - 10%

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

Chemical name	CAS-No.	Concentration
Ethylene oxide	75-21-8	1,0 - 10%

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

Chemical name	CAS-No.	Concentration
Ethylene oxide	75-21-8	1,0 - 10%

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.

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





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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 Chemicals Bureau (ECB) ESIS (http://ecb.jrc.ec.europa.eu/esis/).

The 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.

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

Wording of the R-phrases and H-statements in section 2 and 3

H220 Extremely flammable gas.
H280 Contains gas under pressure: ma

H280 Contains gas under pressure; may explode if heated. H315 Causes skin irritation.

H319 Causes skin irritation.
Causes serious eye irritation.

H331 Toxic if inhaled.

H335 May cause respiratory irritation.H340 May cause genetic defects.

H350 May cause cancer.

R6 Explosive with or without contact with air.

R12 Extremely flammable. R23 Toxic by inhalation.

R36/37/38 Irritating to eyes, respiratory system and skin.

R45 May cause cancer.

R46 May cause heritable genetic damage.

Training information: Users of breathing apparatus must be trained. Ensure operators understand the

 $toxicity\ hazard.$





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Muta. 1B, H340 Carc. 1B, H350 STOT SE 3, H335

Press. Gas Compr. Gas, H280

Other information: Before using this product in any new process or experiment, a thorough material

> compatibility and safety study should be carried out. Ensure adequate air ventilation. Ensure all national/local regulations are observed. 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.

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Disclaimer: This information is provided without warranty. The information is believed to be

correct. This information should be used to make an independent determination of

the methods to safeguard workers and the environment.