



Safety data sheet Carbon dioxide.

Creation date : Revision date :	27.01.2005 12.12.2010	Version : 2.0	DE / E	SDS No. : 8377 page 1 / 2			
OF THE COMPANY Product name Carbon dioxide. Trade name BIOGON C EC No (from EINECS):: CAS No: 124-38-9 Index-Nr Chemical formula CO2 REACH Registration n Listed in Annex IV/V o exempted from registrat Known uses Not known. Company identification Linde AG, Linde Gas Di E-Mail Address Info@c Emergency phone nur 2 HAZARDS IDENTIF Classification acc. fo (CLP/GHS) Press. Gas - Contains g Classification acc. to I Not classified as hazard Risk advice to man an Liquefied gas. Label Elements - Labelling Pictograms - Signal word	2 umber: f Regulation (EC) No 1907 ion. n vision, Seitnerstraße 70, D- de.linde-gas.com nbers (24h): 089-7446-0 FICATION ubstance or mixture to Regulation (EC) No gas under pressure; may exp Directive 67/548/EEC & 199 lous to health. d the environment s arning Contains gas under pres- explode if heated. Asphyxiant in high conc	 Substance/Pr Components/ Carbon dioxid CAS No: 124- Index-Nr.: - EC No (from I REACH Regis Listed in Anne exempted from Contains no o classification of A FIRST AIL Inhalation In high conce include loss o asphyxiation. respiration an wearing self or rested. Call a G Skin/eye cont Immediately fill In case of fros sterile dressing Ingestion is no 5 FIRE FIGH Specific haza Exposure to flammable. Hazardous co None. Suitable extin All known extin Specific meth If possible, sto water from a p Special prote In confined spi 6 ACCIDEN Personal pred Evacuate are entering area adequate air v Environmenta Try to stop rei 	e. 38-9 EINECS): 204-696-9 stration number: ex IV/V of Regulation (En registration. ther components or impo- of the product. DMEASURES entrations may cause a f mobility/consciousness Low concentrations d headache. Remove vi- contained breathing appa- doctor. Apply artificial res- tact ush eyes thoroughly with stbite spray with water for g. Obtain medical assistant of considered a potential of HTING MEASURES inds fire may cause contained pombustion products nguishants can be used. nods op flow of product. Move- protected position. ctive equipment for fire- ace use self-contained be- tract self-contained be- tract self-contained be- tract self-contained be- tract self-contained be- a. Wear self-contained be- tract self-contained be- sentilation.	 EC) No 1907/2006 (REACH), urities which will influence the sphyxiation. Symptoms may, Victim may not be aware of of CO2 cause increased ctim to uncontaminated area ratus. Keep victim warm and piration if breathing stopped. water for at least 15 minutes. r at least 15 minutes. Apply a ince. route of exposure. ers to rupture/explode. Non e container away or cool with a fighters reathing apparatus. 			
Precautionary Stateme Precautionary Stateme Precautionary Stateme	ent Reaction	Handling Suck back of allow backfee	G AND STORAGE water into the contained into the container.	must be prevented. Do not Use only properly specified			
Precautionary Stateme		temperature. (equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. Check regularly tightness of the plant. Refer to supplier's handling instructions.				

THE LINDE GROUP



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		eep container below 50°C ische Regeln Druckgase	14 TRANSPO ADR/RID Class	ORT INFORM	ATION	Classification Code	2A			
8 EXPOSURE CONTROLS/PERSONAL PROTECTION			UN number and proper shipping name UN 1013 Carbon dioxide UN 1013 Carbon dioxide							
Exposure limit value Value type Germany - AGW	value 5.000 ppm	Note TRGS 900	Labels Packing Instruc		2.2 P200	Hazard number	20			
Personal protection Ensure adequate ve shoes while handling	IMDG Class 2.2 UN number and proper shipping name UN 1013 Carbon dioxide									
9 PHYSICAL AND	9 PHYSICAL AND CHEMICAL PROPERTIES			Labels 2.2						
General information Appearance/Colour Odour: No odour wa	: Colourless gas.		Packing Instruct EmS	ction	P200 FC, S\	I				
	on on environment, h	ealth and safety	IATA Class		2.2					
Molecular weight: 44 g/mol Melting point: -56,6 °C			UN 1013 Carbon dioxide							
Sublimation point:			Labels		2.2					
	Critical temperature: 31 °C Autoignition temperature: Not applicable.			ction	P200					
Flammability range:	Not applicable.		Other transport information Ensure vehicle driver is aware of the potential hazards of the load							
Relative density, ga			and knows what to do in the event of an accident or an emergency.							
Relative density, liq Solubility mg/l wate			Before transporting product containers ensure that they are firmly							
Maximum filling pre			secured. Ensure that the cylinder valve is closed and not leaking. Ensure that the valve outlet cap nut or plug (where provided) is							
Other data				correctly fitted. Ensure that the valve protection device (where						
Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level.			provided) is correctly fitted. Ensure adequate ventilation. Ensure compliance with applicable regulations.							
10 STABILITY AND	REACTIVITY		15 REGULAT			N				
•	Stability and reactivity Stable under normal conditions.			Water pollution class Not polluting to waters according to VwVwS from 27.07.2005.						
			Not politiling to		rung tu	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	05.			
	11 TOXICOLOGICAL INFORMATION			16 OTHER INFORMATION Ensure all national/local regulations are observed. The hazard of asphyxiation is often overlooked and must be stressed during operator training. Before using this product in any new process or experiment, a thorough material compatibility and safety study						
	General No known toxicological effects from this product. Acute toxicity									
•										
Concentrations above 8% CO2 can cause rapid circulatory insufficiency. Symptoms are headache, nausea and vomiting, which			should be carried out.							
may lead to unconsci	may lead to unconsciousness.			Advice Whilst proper care has been taken in the preparation of this						
						lamage resulting from it				
	12 ECOLOGICAL INFORMATION			be accepted. Details given in this document are believed to be correct at the time of going to press.						
	General When discharged in large quantities may contribute to the			Further information						
greenhouse effect.			Linde safety ac							
	Global Warming Potential GWP			No. 3Oxygen deficiencyNo. 7Safe handling of gas cylinders and cylinder bundles						
1			No. 11 Transport of gas receptacles in vehicles							
13 DISPOSAL CON	ISIDERATIONS		No. 12	Handling of	carbon	dioxide CO2				
General										
		s accumulation could be	End of docum	nent						
dangerous. To atmos atmosphere in large										
if guidance is require		wonded. Contact Supplier								
EWC Nr. 16 05 05										
			1							