



## Safety data sheet Carbon dioxide, refrigerated liquid.

	27.01.2005 20.12.2010	Version : 2.0	DE / E	SDS No. : 9451 page 1 / 3			
OF THE COMPANY Product name	THE SUBSTANCE/PREP	-	Store in a w utionary Statement Disposal	vell-ventilated place.			
Carbon dioxide, refrigerated liquid. <b>Trade name</b> Carbon dioxide liquified EC No (from EINECS): 204-696-9 CAS No: 124-38-9 Index-Nr <b>Chemical formula</b> CO2 <b>REACH Registration number</b> : Listed in Annex IV/V of Regulation (EC) No 1907/2006 (REACH), exempted from registration. <b>Known uses</b> Not known. <b>Company identification</b> Linde AG, Linde Gas Division, Seitnerstraße 70, D-82049 Pullach <b>E-Mail Address</b> Info@de.linde-gas.com <b>Emergency phone numbers (24h)</b> : 089-7446-0			3 COMPOSITION/INFORMATION ON INGREDIENTS Substance/Preparation: Substance. Components/Impurities Carbon dioxide, refrigerated liquid. CAS No: 124-38-9 Index-Nr.: - EC No (from EINECS): 204-696-9 REACH Registration number: Listed in Annex IV/V of Regulation (EC) No 1907/2006 (REACH), exempted from registration. Contains no other components or impurities which will influence the				
			classification of the product. 4 FIRST AID MEASURES				
2 HAZARDS IDENTIFICATION Classification of the substance or mixture			Inhalation In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation. Low concentrations of CO2 cause increased				
(CLP/GHS)	<ul> <li>Regulation (EC) No</li> <li>irigerated gas; may cause cr</li> </ul>	yogenic burns vearing <b>Skin/e</b>	respiration and headache. Remove victim to uncontaminated a wearing self contained breathing apparatus. Keep victim warm a rested. Call a doctor. Apply artificial respiration if breathing stoppe <b>Skin/eye contact</b>				
Classification acc. to Directive 67/548/EEC & 1999/45/EC Not classified as hazardous to health. Asphyxiant in high concentrations. Risk advice to man and the environment Refrigerated liquefied gas. Contact with productmay cause cold burns or frostbite. Label Elements - Labelling Pictograms			Immediately flush eyes thoroughly with water for at least 15 minutes. In case of frostbite spray with water for at least 15 minutes. Apply a sterile dressing. Obtain medical assistance. Ingestion Ingestion is not considered a potential route of exposure. 5 FIRE FIGHTING MEASURES				
			Specific hazards Exposure to fire may cause containers to rupture/explode. Non flammable. Hazardous combustion products				
$\langle \cdot \rangle$		All kno <b>Specif</b>	le extinguishing media wn extinguishants can be used. ic methods				
- Signal word Wa	ming	water f Specia	ible, stop flow of product. Move rom a protected position. Il protective equipment for fire ined space use self-contained bi	fighters			
- Hazard Statements H281	Contains refrigerated gas cryogenic burns or injury.	Persor	CIDENTAL RELEASE MEASU				
EIGA-As Asphyxiant in high concentrations Precautionary Statements		enterin adequa	Evacuate area. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. Ensure adequate air ventilation. Environmental precautions				
Precautionary Statemer P282	nt Prevention Wear cold insulating glove shield/eye protection.	es/face Try to workpit	stop release. Prevent from enters, or any place where its accum up methods te area.				
Precautionary Statemer P336+P315	Thaw frosted parts with lu Do no rub affected area. ( medical advice/attention.	kewarm water. 7 HA Get immediate Suck b	NDLING AND STORAGE	•			
Precautionary Statemer	n otorage	I					

## THE LINDE GROUP



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Creation date : Revision date :	27.01.2005 20.12.2010	Versio	n : 2.0	DE / E	SDS No. : 94 page 2 / 3	51	
temperature. Contact tightness of the plant. <b>Storage</b> Secure cylinders to pro- in a well ventilated pla (TRG) 280 Ziffer 5"	your gas supplier if i Refer to supplier's ha event them falling. Ke ace. Observe "Techn TROLS/PERSONAL value 5.000 ppm ilation. CHEMICAL PROPER	ep container below 50°C ische Regeln Druckgase PROTECTION Note TRGS 900	14 TRANSPORT INF ADR/RID Class UN number and prop UN 2187 Carbon dioxid Labels Packing Instruction IMDG Class UN number and prop UN 2187 Carbon dioxid Labels Packing Instruction EmS IATA Class UN number and prop	2 er shipping n de, refrigerated 2.2 P203 2.2 er shipping n de, refrigerated 2.2 P203 FC; SV 2.2	d, liquid d, liquid Hazard number <b>ame</b> d, liquid	3A 22	
Important informatio Molecular weight: 44 Melting point: -56,6 ° Sublimation point: -7 Critical temperature: Autoignition tempera Flammability range: Relative density, gas Relative density, gas Relative density, liqu Solubility mg/l water Other data Gas/vapour heavier th particularly at or below	g/mol C 8,5 °C 31 °C <b>ature:</b> Not applicable. Not applicable. : 1,52 <b>id:</b> 0,82 : 2000 mg/l nan air. May accumu	ealth and safety	UN 2187 Carbon dioxi Labels Packing Instruction Other transport inform Ensure vehicle driver and knows what to do Ensure adequate vent load space is not sepa transporting product car Ensure compliance wit 15 REGULATORY IN	de, refrigerated 2.2 P202 mation is aware of th in the event o ilation. Avoid t arated from th ontainers ensu h applicable re	d, liquid e potential hazards o f an accident or an er rransport on vehicles e driver's compartme ure that they are firmly	nergency. where the nt. Before	
<ul> <li>10 STABILITY AND I Stability and reactivity Stable under normal c</li> <li>11 TOXICOLOGICAL General No known toxicological</li> </ul>	ty onditions. INFORMATION	duct.	Further national regulations for the pre- Water pollution class Not polluting to waters TA-Luft Not classified accordin 16 OTHER INFORMA	lation evention of indu according to \ g to TA-Luft.		05.	
<ul> <li>12 ECOLOGICAL INFORMATION</li> <li>General</li> <li>When discharged in large quantities may contribute to the greenhouse effect.</li> <li>Global Warming Potential GWP 1</li> <li>13 DISPOSAL CONSIDERATIONS</li> <li>General</li> <li>Do not discharge into any place where its accumulation could be dangerous. To atmosphere in a well ventilated place. Discharge to atmosphere in large quantities should be avoided. Contact supplier if guidance is required.</li> <li>EWC Nr. 16 05 05</li> </ul>			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 should be carried out. Advice 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. Details given in this document are believed to be correct at the time of going to press. Further information Linde safety advice No. 1 Handling of refrigerated liquid gases No. 3 Oxygen deficiency No. 11 Transport of gas receptacles in vehicles No. 12 Handling of carbon dioxide CO2				

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Creation date : Revision date :	27.01.2005 20.12.2010	Version : 2.0	DE / E	SDS No. : 9451 page 3 / 3
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