



Safety data sheet Ethane

Creation date : Revision date :	28.01.2005 04.01.2011	Versio	n : 2.0	DE / E	SDS No. : 051a page 1 / 3		
OF THE COMPANY Product name	F THE SUBSTANCE/PF	EPARATION AND	Precautionary S	tatement Disposal None.			
Ethane EC No (from EINECS): 200-814-8			3 COMPOSITION/INFORMATION ON INGREDIENTS				
CAS No: 74-84-0			Substance/Preparation: Substance.				
Index-Nr. 601-002-00-X Chemical formula C2H6			Components/Impurities Ethane				
REACH Registration number:			CAS No: 74-84-0				
Not available. Known uses			Index-Nr.: 601-002-00-X EC No (from EINECS): 200-814-8				
Not known.			REACH Registration number:				
Company identification Linde AG, Linde Gas Division, Seitnerstraße 70, D-82049 Pullach			Not available. Contains no other components or impurities which will influence the				
E-Mail Address Info@de.linde-gas.com			classification of the product.				
Emergency phone numbers (24h): 089-7446-0			4 FIRST AID MEASURES				
2 HAZARDS IDENTIFICATION			Inhalation				
Classification of the substance or mixture			In high concentrations may cause asphyxiation. Symptoms may				
Classification acc. to Regulation (EC) No 1272/2008/EC			include loss of mobility/consciousness. Victim may not be aware of asphyxiation. In low concentrations may cause narcotic effects. Symptoms may include dizziness, headache, nausea and loss of co-				
(CLP/GHS) Press. Gas (Liquefied gas) - Contains gas under pressure; may			ordination. Remove victim to uncontaminated area wearing self				
explode if heated. Flam. Gas 1 - Extremely flammable gas.			contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing stopped. Skin/eye contact				
Classification acc. to Directive 67/548/EEC & 1999/45/EC F+; R12			For liquid spillage - flush with water for at least 15 minutes Obtain medical assistance.				
Extremely flammable.			Ingestion				
Risk advice to man and the environment Liquefied gas.			Ingestion is not considered a potential route of exposure.				
Contact with liquid may cause cold burns/frost bite.			5 FIRE FIGHTING MEASURES				
Label Elements			Specific hazards Exposure to fire may cause containers to rupture/explode.				
- Labelling Pictograms			Hazardous combustion products				
			Incomplete comb	ustion may form carbo	n monoxide.		
			Suitable extinguishing media All known extinguishants can be used. Specific methods If possible, stop flow of product. Move container away or cool with				
- Signal word			flame unless at	osolutely necessary.	Spontaneous/explosive re-		
Da	nger			r. Extinguish any other ve equipment for fire			
- Hazard Statements				e use self-contained bro			
H280	Contains gas under p explode if heated.	ressure; may	6 ACCIDENTA	L RELEASE MEASUF	RES		
H220	Extremely flammable	gas.	Personal precau				
- Procentionery Statem	-		Wear self-contain	ed breathing apparatu	is when entering area unless		
- Precautionary Statements			atmosphere is proved to be safe. Evacuate area. Ensure adequate air ventilation. Eliminate ignition sources.				
Precautionary Stateme		, , ,	Environmental p	recautions			
P210	Keep away from heat flames/hot surfaces.				ring sewers, basements and Ilation can be dangerous.		
B (1) B (1)		5	Clean up method	ds	-		
Precautionary Statement Reaction P377 Leaking gas fire: Do not extinguish,					nd free from ignition sources Ground free from frost).		
	unless leakcan be sto	pped safely.		quiù nas crapolateu. (
P381	Eliminate all ignition s so.	sources if safe to do		AND STORAGE			
			Handling	nt is adequately earth	ed. Suck back of water into		
Precautionary Stateme P403	nt Storage Store in a well-ventila	ted place			rge air from system before		
			I				
					051a / EDV / 10 11 2010		

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introducing gas. Do not allow backfeed into the container. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. Keep away from ignition sources (including static discharges). Refer to supplier's handling instructions. **Storage**

Secure cylinders to prevent them falling. Segregate from oxidant gases and other oxidants in store. Keep container below 50°C in a well ventilated place. Observe "Technische Regeln Druckgase (TRG) 280 Ziffer 5"

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protection

Ensure adequate ventilation. Do not smoke while handling product. Carry working gloves and protection shoes while handling gas cylinders.

9 PHYSICAL AND CHEMICAL PROPERTIES

General information

Appearance/Colour: Colourless gas. Odour: None. Stenchant often added

Important information on environment, health and safety Molecular weight: 30 g/mol Melting point: -183 °C

Boiling point: -88,6 °C Critical temperature: 32 °C Autoignition temperature: 515 °C Flammability range: 2,7 %(V) - 16 %(V) Relative density, gas: 1 Relative density, liquid: 0,54 Vapour Pressure 20 °C: 37,8 bar Solubility mg/l water: 61 mg/l Other data

Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level.

10 STABILITY AND REACTIVITY

Stability and reactivity Can form explosive mixture with air. May react violently with oxidants.

11 TOXICOLOGICAL INFORMATION

Acute toxicity

No known toxicological effects from this product.

12 ECOLOGICAL INFORMATION

General

No known ecological damage caused by this product.

13 DISPOSAL CONSIDERATIONS

General

Do not discharge into areas where there is a risk of forming an explosive mixture with air. Waste gas should be flared through a suitable burner with flash back arrestor. Do not discharge into any place where its accumulation could be dangerous. Contact supplier if guidance is required. **EWC Nr. 16 05 04*** 14 TRANSPORT INFORMATION ADR/RID 2F 2 Classification Code Class UN number and proper shipping name UN 1035 Ethane UN 1035 Ethane Labels 2.1 Hazard number 23 **Packing Instruction** P200 IMDG Class 2.1 UN number and proper shipping name UN 1035 Ethane I abels 2.1 **Packing Instruction** P200 EmS FD,SU IATA Class 2.1 UN number and proper shipping name UN 1035 Ethane Labels 2.1 P200 Packing Instruction Other transport information

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 cylinder valve is closed and not leaking. Ensure that the valve outlet cap nut or plug (where provided) is correctly fitted. Ensure that the valve protection device (where provided) is correctly fitted. Ensure adequate ventilation. Ensure compliance with applicable regulations.

15 REGULATORY INFORMATION

Further national regulations

Pressure Vessel Regulation Gefahrstoffverordnung (GefStoffV) Technische Regeln für Gefahrstoffe (TRGS) Regulations for the prevention of industrial accidents **Water pollution class** Not polluting to waters according to VwVwS from 17.05.99.

16 OTHER INFORMATION

Ensure all national/local regulations are observed. Ensure operators understand the flammability hazard. 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

Hommel: Handbook of dangerous goods Kühn-Birett: Merkblätter gefährliche Arbeitsstoffe Linde safety advice

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