Natural Gas, Compressed - Safety Data Sheet (SDS)

Safety data sheet
Natural Gas, compressed.

Creation date: 14.10.2005
Revision date: 05.01.2011
Version: 2.0
DE/E
SDS No: 8328
Page 1/2

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY
Product name:
Natural Gas, Compressed.
EC No (from EINECS): 200-812-7
CAS No: 74-82-8
Index No: 601-001-04
Chemical formula: CH4 (impurities)
REACH Registration number: Not available.
Known uses:
Not known.
Company identification:
Linde AG, Linde Gas Division, Sedlenerstrasse 70, D-62245 Pullach
Emergency phone numbers (24h): 085-7446-0

2 HAZARDS IDENTIFICATION
Classification of the substance or mixture
Classification acc. to Regulation (EC) No 1272/2008/EC (CLP/GHS):
Press. Gas (Compressed gas) - Contains gas under pressure, may explode if heated.
Flam. Gas 1 - Extremely flammable gas.
Classification acc. to Directive 67/548/EEC & 1999/45/EC:
Fl: R12
Extremely flammable.
Risk advice to man and the environment in high concentrations may cause asphyxiation. Compressed gas.
Label elements:
- Labelling Pictograms:
  - Signal words: Danger
  - Hazard Statements:
    - H280: Contains gas under pressure; may explode if heated.
    - H220: Extremely flammable gas.
  - Precautionary Statements:
    - P210: Keep away from heat/sparks/open flames/hot surfaces - No smoking.
    - P377: Leaking gas fire - Do not extinguish, unless leak can be stopped safely.
    - P361: Eliminate all ignition sources if safe to do so.
    - P403: Store in a well-ventilated place.

3 COMPOSITION/INFORMATION ON INGREDIENTS
Substance Preparation Substance:
Compressed gas.
Natural gas, compressed.
CAS No: 74-82-8
Index No: 601-001-04
EC No (from EINECS): 200-812-7
REACH Registration number: Not available.
Contains no other components or impurities which will influence the classification of the product.

4 FIRST AID MEASURES
Inhalation:
In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation. Symptoms may include dizziness, headache, nausea and loss of co-ordination. Remove victim to uncontaminated area wearing self-contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing stopped.
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.
Hazardous combustion products:
Incombustible gas.
Suitable extinguishing media:
Water is not suitable. Suitable extinguishing media is water.
All known extinguishants are unsuitable.
Specific methods:
If possible, stop flow of product. Move container away from fire and water from a protected position. Do not extinguish a leaking gas flame unless absolutely necessary. Spontaneous/ explosive ignition may occur.
Special protective equipment for fire fighters:
In confined space use self-contained breathing apparatus.

6 ACCIDENTAL RELEASE MEASURES
Personal precautions:
Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. Ensure adequate air ventilation. Eliminate ignition sources. Environmental precautions:
Try to stop release. Clean up methods:
Ventilate area.

7 HANDLING AND STORAGE
Handling:
Ensure equipment is adequately earthed. Suck back of water into the container must be prevented. Purge air from system before introducing gas. 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 press. discharges). Refer to suppliers handling instructions.
Storage:
Store in a well-ventilated place.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION
Personal protection:
Ensure adequate ventilation. Do not smoke while handling product.

9 PHYSICAL AND CHEMICAL PROPERTIES
General information:
Appearance/Colour: Colourless gas.
Odour: None.
Important information on environment, health and safety:
Molecular weight: 16 g/mol
Melting point: -182 °C
Boiling point: -161.5 °C
Critical temperature: 82.4 °C
Autoignition temperature: 595 °C
Flammability range: 4.5 % (V) - 15 % (V)
Relative density, gas: 0.69
Solubility mgl/water: 26 mgl
Maximum pressure (bar): 200 bar

10 STABILITY AND REACTIVITY
Stability and Reactivity:
Can form explosive mixtures with air. May react violently with oxidants.

11 REGULATORY INFORMATION
Further national regulations:
Pressure Vessel Regulation.
Gefahrstoffverordnung (GefStoffV).
Technische Regeln für Gastechnik (TRGS) Regulations for the prevention of industrial accidents.
Water pollution class:
Not polluting to waters according to VwWassV from 17.06.99.
Not classified according to TA-Luft.
Not classified according to TA-Luft.

12 OTHER INFORMATION
Ensure all national 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 in any new process or equipment, a thorough material compatibility and safety study should be carried out.
Advice:
Do not inhale. Work in a well-ventilated area.

End of document.