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# Methane

WAG-078A-DD



# Danger





### 1 Identification of the substance/mixture and of the company/undertaking

**Product identifier** 

Trade name : Methane **SDS Nr** : WAG-078A-DD **Chemical description** 

: Methane

CAS No:000074-82-8 EC No: 200-812-7 Index No :601-001-00-4

**Chemical formula** 

Registration-No. : Listed in Annex IV / V REACH, exempted from registration. Use : Industrial and professional. Perform risk assessment prior to use.

: Westfalen AG **Company identification** 

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48155 MUENSTER Deutschland

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: sdb@westfalen-ag.de E-Mail address (competent person): : Tel. (+49)5459/80625 **Emergency telephone number** 

### 2 Hazards identification

### Classification of the substance or mixture

**Hazard Class and Category Code** Regulation EC 1272/2008 (CLP)

 Physical hazards : Flammable gases - Category 1 - Danger (H220)

Gases under pressure - Compressed gas - Warning (H280)

Classification EC 67/548 or EC 1999/ : F+; R12

### Label elements

Labelling Regulation EC 1272/2008 ( CLP)

Hazard pictograms





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### 2 Hazards identification (continued)

· Hazard pictograms code

• Signal word : Danger

• Hazard statements : H220 : Extremely flammable gas.

H280: Contains gas under pressure; may explode if heated.

Precautionary statements

Prevention
 P210 : Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
 Response
 P377 : Leaking gas fire: Do not extinguish, unless leak can be stopped safely.

: P403 : Store in a well-ventilated place.

P381 : Eliminate all ignition sources if safe to do so.

- Storage

Labelling EC 67/548 or EC 1999/45 Symbol(s)



: F+ : Extremely flammable: R12 : Extremely flammable.

S Phrase(s) : S9 : Keep container in a well-ventilated place.

S16 : Keep away from sources of ignition - No smoking.S33 : Take precautionary measures against static discharges.

Other hazards

R Phrase(s)

Other hazards : None.

#### 3 Composition/information on ingredients

Substance / Preparation : Substance.

 Substance name
 Contents
 CAS No
 EC No
 Index No
 Registration no
 Classification

 Methane
 : 100 %
 74-82-8
 200-812-7
 601-001-00-4
 NOTE 1
 F+; R12

Flam. Gas 1 (H220) Press. Gas (H280)

Contains no other components or impurities which will influence the classification of the product.

Note 1: Listed in Annex IV / V REACH, exempted from registration.

Note 2: Registration deadline not expired. Full text of R-phrases see chapter 16

#### 4 First aid measures

#### First aid measures

- Inhalation : In high concentrations may cause asphyxiation. Symptoms may 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-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.

### 5 Fire-fighting measures

**Specific hazards** : Exposure to fire may cause containers to rupture/explode. **Hazardous combustion products** : Incomplete combustion may form carbon monoxide.

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### 5 Fire-fighting measures (continued)

**Extinguishing media** 

- Suitable extinguishing media : All known extinguishants can be used.

Specific methods : If possible, stop flow of product.

Move away from the container and cool with water from a protected position. Do not extinguish a leaking gas flame unless absolutely necessary. Spontaneous/

explosive re-ignition may occur. Extinguish any other fire.

fighters

Special protective equipment for fire : 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. Evacuate area.

Ensure adequate air ventilation. Eliminate ignition sources.

**Environmental precautions** 

: Try to stop release.

Clean up methods

: Ventilate area.

### 7 Handling and storage

Handling : Purge air from system before introducing gas.

> Suck back of water into the container must be prevented. Take precautionary measures against static discharge.

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 container handling instructions.

: Segregate from oxidant gases and other oxidants in store. Storage

Keep container below 50℃ 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

Physical state at 20 ℃ : Gas.

Colour : Colourless gas.

Odour : None. Molecular weight [g/mol] : 16 Melting point [℃] : -182 : -161 Boiling point [℃] Critical temperature [℃] : -82

Vapour pressure [20℃] : Not applicable.

Relative density, gas (air = 1) : 0.6 Relative density, liquid (water=1) : 0.42 Solubility in water [mg/l] : 26

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### 9 Physical and chemical properties (continued)

: 4.4 to 15 Flammability range [vol% in air] Auto-ignition temperature [℃] : 595

### 10 Stability and reactivity

: None. Hazardous decomposition products

Can form explosive mixture with air. Incompatible materials

May react violently with oxidants.

Air, Oxidiser.

Conditions to avoid : Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

### 11 Toxicological information

**Toxicity information** : No known toxicological effects from this product.

## 12 Ecological information

Global warming potential [CO2=1] : 25

Water-endangerment class Germany : WGK0 - In general not hazardous for aquatic environment.

#### 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

Do not discharge into any place where its accumulation could be dangerous.

Contact supplier if guidance is required.

# 14 Transport information

**General information** 

- UN number : 1950

#### Land transport (ADR/RID)

- H.I. nr

- UN proper shipping name : UN1950 DRUCKGASPACKUNGEN, 2.1, 5F, (D)

- Transport hazard class(es) - Classification code : 5 F - Packing group : F

: P003 LP002 - Packing Instruction(s) - General

- Tunnel Restriction : D : Passage forbidden through tunnels of category D and E.

Sea transport (IMDG)

- Proper shipping name : AEROSOLS

: 2.1 - Class - IMO-IMDG code : Class 2 : P003 - IMO Packing group - IMDG-Marine pollution : YES ò

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### 14 Transport information (continued)

: P003 - Packing Instruction(s)

#### Air transport (ICAO/IATA)

- Proper shipping name : AEROSOLS

- Class : 2 : F - IATA Packing group

- Passenger and Cargo Aircraft : Allowed. - Packing Instruction(s) : Y203 203

: Allowed. - Cargo Aircraft only - Packing Instruction(s) : 203

#### 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 containers are firmly secured. - Ensure cylinder valve is closed and not leaking.

- Ensure valve outlet cap nut or plug (where provided) is correctly fitted. - Ensure valve protection device (where provided) is correctly fitted.

- Ensure there is adequate ventilation. - Compliance with applicable regulations.

### 15 Regulatory information

: Ensure all national/local regulations are observed. Safety, health and environmental regulations/legislation specific for the

substance or mixture

Seveso regulation 96/82/EC : Listed

### 16 Other information

Ensure operators understand the flammability hazard.

The hazard of asphyxiation is often overlooked and must be stressed during operator training.

List of full text of R-phrases in

section 3.

: R12 : Extremely flammable.

This Safety Data Sheet has been established in accordance with the applicable European Directives and applies to all countries that have translated the Directives in their national laws.

**DISCLAIMER OF LIABILITY** 

: 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. Before using this product in any new process or experiment, a thorough

material compatibility and safety study should be carried out.

End of document

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