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		Revised edition no : 1
		Date : 9 / 6 / 2011
		Supersedes : 9 / 6 / 2011
Methane		WAG-078A-DD



F+ : Extremely flammable

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 : CH₄
Registration-No. : Listed in Annex IV / V REACH, exempted from registration.
Use : Industrial and professional. Perform risk assessment prior to use.
Company identification : Westfalen AG
Industrieweg 43
48155 MUENSTER Deutschland
Tel : 0049 2 51 6 95 0
Fax: 0049 2 51 6 95 1 94

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

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
45

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.
P381 : Eliminate all ignition sources if safe to do so.
 - Storage : P403 : Store in a well-ventilated place.

Labelling EC 67/548 or EC 1999/45

Symbol(s)



R Phrase(s)

S Phrase(s)

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

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.

Methane
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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.

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.

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.

Storage

: Segregate from oxidant gases and other oxidants in store.

Keep container below 50°C 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 °C

: Gas.

Colour

: Colourless gas.

Odour

: None.

Molecular weight [g/mol]

: 16

Melting point [°C]

: -182

Boiling point [°C]

: -161

Critical temperature [°C]

: -82

Vapour pressure [20°C]

: 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)

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

10 Stability and reactivity

Hazardous decomposition products : None.
 Incompatible materials : Can form explosive mixture with air.
 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 arrestor.
 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) : 2
 - Classification code : 5 F
 - Packing group : F
 - Packing Instruction(s) - General : P003 LP002
 - Tunnel Restriction : D : Passage forbidden through tunnels of category D and E.

Sea transport (IMDG)

- Proper shipping name : AEROSOLS
 - Class : 2.1
 - IMO-IMDG code : Class 2
 - IMO Packing group : P003
 - IMDG-Marine pollution : YES ò

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14 Transport information (continued)

- Packing Instruction(s) : P003

Air transport (ICAO/IATA)

- Proper shipping name : AEROSOLS

- Class : 2

- IATA Packing group : F

- Passenger and Cargo Aircraft : Allowed.

- Packing Instruction(s) : Y203
203

- Cargo Aircraft only : Allowed.

- 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

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

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.

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