# Safety Data Sheet

1 Identification of the substance/preparation and of the company/undertaking

- · Product details
- · Trade name: <u>methanol</u>

## 2 Composition/information on ingredients

- · Chemical characterization:
- CAS No. Description
- 67-56-1 methanol
- Identification number(s)
- EINECS Number: 200-659-6 • Index number: 603-001-00-X

## **3 Hazards identification**

## • Hazard description:



T Toxic F Highly flammable

## · Information concerning particular hazards for human and environment:

R 11 Highly flammable.

R 23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

R 39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

## 4 First aid measures

- · General information:
- Immediately remove any clothing soiled by the product. Remove breathing equipment only after contaminated clothing have been completely removed. In case of irregular breathing or respiratory arrest provide artificial respiration.
- After inhalation:
- Supply fresh air or oxygen; call for doctor.
- In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Do not induce vomiting; call for medical help immediately.

# **5** Fire-fighting measures

- $\cdot$  Suitable extinguishing agents:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Protective equipment: Mouth respiratory protective device.

(Contd. of page 1)

## 6 Accidental release measures

- · Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.
- Measures for environmental protection: Dilute with plenty of water.
- Do not allow to enter sewers/ surface or ground water.
- *Measures for cleaning/collecting:* Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

### 7 Handling and storage

- · Handling:
- *Information for safe handling:* Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care.
- *Information about fire and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep respiratory protective device available.*
- · Storage:
- Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed receptacles.

#### 8 Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.

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67-56-1 methanol	
PEL (USA)	260 mg/m³, 200 ppm
REL (USA)	Short-term value: 325 mg/m³, 250 ppm
	Long-term value: 260 mg/m³, 200 ppm Skin
TLV (USA)	Short-term value: 328 mg/m³, 250 ppm
	Long-term value: 262 mg/m³, 200 ppm Skin; BEI
IOELV (EU)	260 mg/m³, 200 ppm
	Skin
WEL (Great Britain)	Short-term value: 333 mg/m³, 250 ppm
	Long-term value: 266 mg/m³, 200 ppm Sk

· Additional information: The lists valid during the making were used as basis.

· Personal protective equipment:

• General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes and skin.

(Contd. on page 3)

· Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

• Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection:



Tightly sealed goggles

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#### **10 Stability and reactivity**

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

· Dangerous reactions No dangerous reactions known.

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· Dangerous decomposition products: No dangerous decomposition products known.

(Contd. of page 3)

## **11 Toxicological information**

· Acute toxicity:

· LD/LC50 values relevant for classification:

Oral LD50 5628 mg/kg (rat)

Dermal LD50 15800 mg/kg (rabbit)

- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.

## **12 Ecological information**

· General notes:

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

## **13 Disposal considerations**

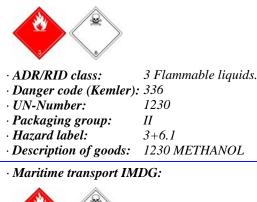
- · Product:
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

#### **14 Transport information**

· Land transport ADR/RID (cross-border)



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· IMDG Class:	3
· UN Number:	1230
· Label	3+6.1
· Packaging group:	II

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· EMS Number:	F-E,S-D	
· Marine pollutant:	No	
· Proper shipping nam	e: METHANOL	
· Air transport ICAO-T	I and IATA-DGR:	
· ICAO/IATA Class:	3	
· UN/ID Number:	1230	
· Label	3+6.1	
· Packaging group:	II	
· Proper shipping nam	METHANOL	

# **15 Regulatory information**

· Labelling according to EU guidelines:

*The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.* 

· Code letter and hazard designation of product:



T Toxic F Highly flammable

#### · Risk phrases:

11

Highly flammable.

23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

#### · Safety phrases:

- 1/2 Keep locked up and out of the reach of children.
- 7 Keep container tightly closed.
- 16 Keep away from sources of ignition No smoking.

*36/37 Wear suitable protective clothing and gloves.* 

#### **16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing MSDS: Product safety department
- · Contact: Mr. Menon