

Product Name	RXSOL-19-1203-060
Product Type	Methanol

Company Details:

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Chemical Name

CAS Number

EC Number

Index number

methanol

67-56-1

200-659-6

603-001-00-X

**Hazard description:**

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.

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.

**Suitable extinguishing agents:**

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Protective equipment: No special measures required.

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.

**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.

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

**Ingredients with limit values that require monitoring at the workplace:**

67-56-1 methanol

PEL (USA)

REL (USA)

TLV (USA)

WEL (Great Britain)

260 mg/m<sup>3</sup>, 200 ppm

Short-term value: 325 mg/m<sup>3</sup>, 250 ppm

Long-term value: 260 mg/m<sup>3</sup>, 200 ppm

Skin

Short-term value: 328 mg/m<sup>3</sup>, 250 ppm

Long-term value: 262 mg/m<sup>3</sup>, 200 ppm

Skin; BEI

260 mg/m<sup>3</sup>, 200 ppm

Skin

Short-term value: 333 mg/m<sup>3</sup>, 250 ppm

Long-term value: 266 mg/m<sup>3</sup>, 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.

**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:**

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

General Information

Form

Fluid

Colour

Colourless

Odour

Alcohol-like

Change in condition

Melting point/Melting range

-98°C

Boiling point/Boiling range

64.7°C

Flash point

11°C

Ignition temperature 455°C

Danger of explosion

Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

<b>Explosion limits:</b>	Lower	5.5 Vol %	Upper	44 Vol %	Vapour pressure at 20°C	128 hPa
Density at 20°C	0.79 g/cm <sup>3</sup>	Solubility in / Miscibility with water		Fully miscible.		

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

Dangerous reactions No dangerous reactions known.

Dangerous decomposition products: No dangerous decomposition products known.

Acute toxicity: **LD/LC50 values relevant for classification:**

Oral

Inhalative

LD50

LC50/4 h

5628 mg/kg (rat)

15800 mg/kg (rabbit)

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

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.

#### 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.

Land transport ADR/RID (cross-border)				ADR/RID class		3 Flammable liquids.		Danger code (Kemler)			
336	UN-Number		1230	Packaging group		II	Hazard label		3+6.1		
Description of goods		1230 METHANOL		Maritime transport IMDG			IMDG Class		3	UN Number	
1230	Label		3+6.1	Packaging group		II	EMS Number		F-E,S-D	Marine	
pollutant	No	Proper shipping name		METHANOL		Air transport ICAO-TI and IATA-DGR					ICAO/IATA
Class	3	UN/ID Number		1230	Label		3+6.1	Packaging group		II	Proper
shipping name		METHANOL									

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.

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.

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