

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Methanol - 50 % w/v

Methyl alcohol

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Name: Methanol - 50 % w/v
Catalog Number: CSS-224
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2. HAZARDS IDENTIFICATION

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Flammable liquids (Category 2) H225
Acute toxicity, Inhalation (Category 3) H331
Acute toxicity, Dermal (Category 3) H311
Acute toxicity, Oral (Category 3) H301
Specific target organ toxicity - single exposure (Category 3) H370

Label elements



Pictogram

Signal word

Danger

Hazard statement(s)

H225 Highly flammable liquid and vapour.
H301 Toxic if swallowed.
H311 Toxic in contact with skin.

Precautionary statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P280 Wear protective gloves/ protective clothing.
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.

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P311 Call a POISON CENTER or doctor/ physician.

Supplemental Hazard information (EU)
none

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredients according to Regulation (EC) No 1272/2008:

Methanol

Synonyms: Methyl alcohol

Formula: CH_3OH

Molecular Weight: 32.04 g/mol

CAS-No.: 67-56-1

EC number: 200-659-6

Concentration: 50 % w/v

4. FIRST AID MEASURES

If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in section 2 and/or in section 11.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid dust formation.



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Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Handling

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Storage

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: store at 4 °C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

For prolonged or repeated contact use protective gloves.

Eye protection

Safety glasses

Hygiene measures

General industrial hygiene practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form: liquid

Safety data

pH:
Melting point: -98 °C
Boiling point: 64,7 °C
Flash point: 9,7 °C - closed cup
Ignition temperature: 455,0 °C at 1.013 hPa
Lower explosion limit: Not explosive
Upper explosion limit: Not explosive



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Water solubility: completely miscible

10. STABILITY AND REACTIVITY

Storage stability

Stable under recommended storage conditions.

Materials to avoid

Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids

Hazardous decomposition products

no data available

11. TOXICOLOGICAL INFORMATION

Acute toxicity

LDLO Oral Human - 143 mg/kg (human), Remarks: Lungs, Thorax, or Respiration: Dyspnea. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

LD50 Oral	1.187 - 2.769 mg/kg (rat)
LC50 Inhalation	4 h - 128,2 mg/l (rat)
LC50 Inhalation	6 h - 87,6 mg/l (rat)
LD50 Dermal	17.100 mg/kg (rabbit)

Irritation and corrosion

Skin - rabbit	Result: No skin irritation
Eyes - rabbit	Result: No skin irritation

Sensitisation

Maximisation Test - guinea pig Does not cause skin sensitisation. (OECD Test Guideline 406)

Germ cell mutagenicity

Ames test - S. typhimurium	Result: negative
in vitro assay - fibroblast	Result: negative, Mutation in mammalian somatic cells.
Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis)	Result: negative
- mouse - male and female	

Signs and Symptoms of Exposure

Methyl alcohol may be fatal or cause blindness if swallowed.

Effects due to ingestion may include: Headache, Dizziness, Drowsiness, metabolic acidosis, Coma, Seizures.

Symptoms may be delayed: Damage of the: Liver, Kidney

Central nervous system - Breathing difficulties - Based on Human Evidence



Toxicity

Toxicity to fish mortality LC50	Lepomis macrochirus (Bluegill) - 15.400,0 mg/l - 96 h NOEC - Oryzias latipes - 7.900 mg/l - 200 h
Toxicity to daphnia and other aquatic invertebrates EC50	Daphnia magna (Water flea) - > 10.000,00 mg/l - 48 h
Toxicity to algae Growth inhibition EC50	Scenedesmus capricornutum (fresh water algae) - 22.000,0 mg/l - 96 h

Elimination information (persistence and degradability)

aerobic - Exposure time 5 d Result: 72 % - rapidly biodegradable

Further information on ecology

Bioaccumulation Cyprinus car- 5 mg/l
pio (Carp) - 72 d at 20 °C

Bioconcentration factor (BCF)	1,0
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13. DISPOSAL CONSIDERATIONS

Product

Observe all federal, state, and local environmental regulations.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

UN number/ Proper shipping name

ADR/RID:	UN 1230 Methanol
IMDG:	UN 1230 Methanol
IATA:	UN 1230 Methanol

Transport hazard class(es)

ADR/RID:	3 (6.1)
IMDG:	3 (6.1)
IATA:	3 (6.1)

Packaging group

ADR/RID: II
IMDG: II
IATA: II

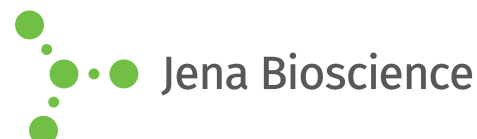
Environmental hazards

ADR/RID: no

IMDG: no

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IATA: no

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

16. OTHER INFORMATION

Further information

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