



# Safety Data Sheet

## Methanol

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### 1. PRODUCT AND COMPANY IDENTIFICATION

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**Product Name:** Methanol

**Synonyms/Generic Names:** Methyl Alcohol

**Product Number:** CP-B7142, CP-C7142, CP-C7142P, CP-E7142, CP-C2305, CP-B2305T, CP-C2305T

**Product Use:** Industrial, Manufacturing or Laboratory use

**Manufacturer:** ChemPure Brand Chemicals  
39103 Warren Road  
Westland, MI 48185

**For More Information Call:** 734-729-1805 (Monday-Friday 8:00-4:30)

**In Case of Emergency Call:** CHEMTREC - 800-424-9300 or 703-527-3887 (24 Hours/Day, 7 Days/Week)

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### 2. HAZARDS IDENTIFICATION

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**OSHA Hazards:** Flammable liquid, Target Organ Effect, Toxic by ingestion, Toxic by skin absorption, Irritant

**Target Organs:** Eyes, Skin, Respiratory system, Central nervous system, Gastrointestinal tract, Kidney, Liver, Heart

**Signal Words:** Danger **Pictograms:**



**GHS Classification:**

Flammable liquids	Category 2
Skin irritation	Category 2
Eye irritation	Category 2A
Specific target organ toxicity – single exposure	Category 1

**GHS Label Elements, including precautionary statements:**

**Hazard Statements:**

H225	Highly flammable liquid and vapor.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H370	Causes damage to organs.

**Precautionary Statements:**

P210	Keep away from heat/sparks/open flames/hot surfaces- No smoking.
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P260	Do not breathe dust/fumes/gas/mist/vapors/spray.
P280	Wear protective gloves/protective clothing.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
P307+P311	IF exposed: Call a POISON CENTER or doctor/physician.

#### Potential Health Effects

<b>Eyes</b>	Causes irritation.
<b>Inhalation</b>	May be harmful if inhaled. Causes respiratory tract irritation
<b>Skin</b>	Toxic if absorbed through skin. Causes skin irritation.
<b>Ingestion</b>	Toxic if swallowed.

#### NFPA Ratings

<b>Health</b>	1
<b>Flammability</b>	3
<b>Reactivity</b>	0
<b>Specific hazard</b>	Not Avail:

#### HMIS Ratings

<b>Health</b>	2
<b>Fire</b>	3
<b>Reactivity</b>	0
<b>Personal</b>	H

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight %	CAS #	EINECS# / ELINCS#	Formula	Molecular Weight
Methyl Alcohol	>99.0	67-56-1	200-659-6	CH <sub>3</sub> OH	32.04 g/mol

### 4. FIRST-AID MEASURES

<b>Eyes</b>	Rinse with plenty of water for at least 15 minutes and seek medical attention.
<b>Inhalation</b>	Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.
<b>Skin</b>	Flush with plenty of water for at least 15 minutes while removing contaminated clothing and wash using soap. Get medical attention.
<b>Ingestion</b>	<b>Do Not Induce Vomiting!</b> Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention.

### 5. FIREFIGHTING MEASURES

<b>Suitable (and unsuitable) extinguishing media</b>	Product is flammable. Use carbon dioxide, alcohol-type foam or dry chemical. Cool containers with water.
<b>Special protective equipment and precautions for firefighters</b>	Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.
<b>Specific hazards arising from the chemical</b>	Emits toxic fumes (carbon oxides) under fire conditions. Sealed containers may explode if exposed to high heat or fire. See also Stability and Reactivity section.

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## 6. ACCIDENTAL RELEASE MEASURES

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<b>Personal precautions, protective equipment and emergency procedures</b>	See section 8 for recommendations on the use of personal protective equipment.
<b>Environmental precautions</b>	Prevent spillage from entering drains. Any release to the environment may be subject to a federal/national or local reporting requirements.
<b>Methods and materials for containment and cleaning up</b>	Absorb spill with noncombustible absorbent material, then place in a suitable container for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations.

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## 7. HANDLING AND STORAGE

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### Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition- No Smoking. Take measure to prevent the buildup of electrostatic charge. See section 8 for recommendations on the use of personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use.

### Conditions for safe storage, including any incompatibilities

Store in cool, dry well ventilated area in tightly-closed, plainly-labeled containers. Store between 55-100°F for product stability. Do not store with strong oxidizing agents, strong acids, peroxides, aldehydes, halogens, ammonia, acid anhydrides or alkali metals. Keep away from incompatible materials (see section 10 for incompatibilities).

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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**Occupational exposure controls:** Ventilation and appropriate grounding of container.

Component	Exposure Limits	Basis	Entity
Methyl Alcohol	200 ppm 262 mg/m <sup>3</sup>	TLV	ACGIH
	250 ppm 328 mg/m <sup>3</sup>	STEL	ACGIH
	200 ppm 260 mg/m <sup>3</sup>	PEL	OSHA
	200 ppm 260 mg/m <sup>3</sup>	REL	NIOSH
	250 ppm 325 mg/m <sup>3</sup>	STEL	NIOSH

TWA: Time Weighted Average over 8 hours of work.

TLV: Threshold Limit Value over 8 hours of work.

REL: Recommended Exposure Limit

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes.

IDLH: Immediately Dangerous to Life or Health

WEEL: Workplace Environmental Exposure Levels

CEIL: Ceiling

## Personal Protection

<b>Eyes</b>	Wear chemical safety glasses with face shield.
<b>Inhalation</b>	Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an approved respirator.
<b>Skin</b>	Wear nitrile or rubber gloves, apron or lab coat.
<b>Other</b>	Not Available

## Other Recommendations

Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling. Have supplies and equipment for neutralization and running water available.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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Appearance (physical state, color, etc.)	Clear, colorless liquid
Odor	Mild alcohol
Odor threshold	Not Available
pH	6.7
Melting point/freezing point	Not Available
Initial boiling point and boiling range	73.9°C (165°F)
Flash point	11°C (52°F) closed cup
Evaporation rate	Not Available
Flammability (solid, gas)	Flammable
Upper/lower flammability or explosive limit	LFL: 6.0% UFL:36.0%
Vapor pressure	(@ 20°C) 129.32 hPa
Vapor density	(air=1) 1.11
Relative density	(@25°C) .9560 g/cm <sup>3</sup>
Solubility (ies)	Completely soluble in water
Partition coefficient: n-octanol/water	Not Available
Auto-ignition temperature	464°C (867°F)
Decomposition temperature	Not Available

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## 10. STABILITY AND REACTIVITY

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<b>Chemical Stability</b>	Stable
<b>Possibility of Hazardous Reactions</b>	Will not occur.
<b>Conditions to Avoid</b>	Temperatures below 32°F or above 90°F
<b>Incompatible Materials</b>	Strong oxidizing agents, strong acids, peroxides, aldehydes, halogens, ammonia, acid anhydrides or alkali metals
<b>Hazardous Decomposition Products</b>	Carbon oxides.

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## 11. TOXICOLOGICAL INFORMATION

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### Acute Toxicity

<b>Skin</b>	LD50 Dermal- rabbit- 15,800 mg/kg
<b>Eyes</b>	Eyes- rabbit- Eye irritation- 24 hour
<b>Respiratory</b>	LC <sub>50</sub> rat- 85 mg/L, 4 hours LC <sub>50</sub> rat- 64000 ppm, 4 hours
<b>Ingestion</b>	LD <sub>50</sub> rat- 5,628 mg/kg

### Carcinogenicity

<b>IARC</b>	No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
<b>ACGIH</b>	No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
<b>NTP</b>	No components of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
<b>OSHA</b>	No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

### Signs & Symptoms of Exposure

<b>Skin</b>	Burning, itching, redness may be harmful if absorbed through skin.
<b>Eyes</b>	Causes irritation. Redness, excessive blinking and watering eyes.
<b>Respiratory</b>	Coughing, wheezing, headache, disorientation, blurred vision, dizziness, fatigue or nausea.
<b>Ingestion</b>	Nausea, vomiting, may cause blindness and central nervous system depression.
<b>Chronic Toxicity</b>	Ingestion may cause blindness
<b>Teratogenicity</b>	Not Available
<b>Mutagenicity</b>	Not Available
<b>Embryotoxicity</b>	Pre-and Post- implant mortality
<b>Specific Target Organ Toxicity</b>	Single exposure- Causes damage to organs
<b>Reproductive Toxicity</b>	Not Available
<b>Respiratory/Skin Sensitization</b>	Not Available

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## 12. ECOLOGICAL INFORMATION

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### Ecotoxicity

<b>Aquatic Vertebrate</b>	Do not release directly into surface water LC <sub>50</sub> = 15,400 mg/L, 96 hours (Lepomis Macrochirus) LC50- Oncorhynchus mykiss (rainbow trout)- 19,000 mg/l- 96 h LC50- Cyprinus carpio (Carp)- 36,000.00 mg/l- 48 h
<b>Aquatic Invertebrate</b>	EC50- Daphnia magna (Water flea)- 24,500.00 mg/l- 48 h EC100- Daphnia magna (Water flea)- 10,000.00 mg/l- 24 h
<b>Terrestrial</b>	Not Available
<b>Persistence and Degradability</b>	Not Available
<b>Bioaccumulative Potential</b>	BCF of 1
<b>Mobility in Soil</b>	Not Available
<b>PBT and vPvB Assessment</b>	Not Available
<b>Other Adverse Effects</b>	Not Available

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## 13. DISPOSAL CONSIDERATIONS

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<b>Waste Residues</b>	Place in a clean container to be disposed of through a licensed contractor. Users should review their operation in terms of the applicable federal/ national or local regulations and consult with appropriate regulatory agencies before discharging or disposing of waste material.
<b>Product Containers</b>	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies before discharging or disposing of waste material.

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods.

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## 14. TRANSPORTATION INFORMATION

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US DOT	UN1230, Methanol solution, 3, pg II
TDG	UN1230, METHANOL SOLUTION, 3, PG II
IMDG	UN1230, METHANOL SOLUTION, 3, pg II
Marine Pollutant	No
IATA/ICAO	UN1230, Methanol solution, 3 pg II

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## 15. REGULATORY INFORMATION

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TSCA Inventory Status	All ingredients are listed on the TSCA inventory.
DSCL (EEC)	All ingredients are listed on the DSCL inventory.
California Proposition 65	Not Listed
SARA 302	Not Listed
SARA 304	Not Listed
SARA 311	Methanol
SARA 312	Methanol
SARA 313	Listed: Methanol
WHMIS Canada	Class B2: Flammable liquids Class D1B: Toxic Material Causing Immediate and Serious Toxic Effects Class D2A: Very Toxic Material Causing Other Toxic Effects Class D2B: Toxic Material Causing Other Toxic Effects

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## 16. OTHER INFORMATION

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Revision	Date
Revision 1	06/06/2013
Revision 2	09/24/2014
Revision 3	11/05/2021

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