

## **Safety Data Sheet**

## Methanol 90% (v/v)

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Methanol 90% (v/v)

Synonyms/Generic Names: Methyl Alcohol

**Product Number: 3502** 

Product Use: Industrial, Manufacturing or Laboratory use

Manufacturer: Columbus Chemical Industries, Inc.

N4335 Temkin Rd. Columbus, WI. 53925

For More Information Call: 920-623-2140 (Monday-Friday 8:00-4:30)

www.columbuschemical.com

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

## 2. HAZARDS IDENTIFICATION

Hazards Not Otherwise Classified (HNOC): None

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

Liver, Heart

Signal Words: Danger

**Pictograms:** 







## **GHS Classification:**

Flammable liquids	Category 2
Acute toxicity, Oral	Category 3
Acute toxicity, Dermal	Category 3
Acute toxicity, Inhalation	Category 3
Specific target organ toxicity, single exposure	Category 1

## GHS Label Elements, including precautionary statements:

#### **Hazard Statements:**

H225	Highly flammable liquid and vapor	
H301+H311+H331	Toxic if swallowed, in contact with skin or if inhaled.	
H370	Causes damage to organs.	

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## **Precautionary Statements:**

sources. No smoking.  P233 Keep container tightly closed.  P240 Ground/bond container and receiving equipment.  P241 Use explosion-proof electrical/ventilating/lighting/equipment.  P242 Use only non-sparking tools.  P243 Take precautionary measures against static discharge.  P260 Do not breathe dust/fume/gas/mist/vapors/spray.  P264 Wash hands thoroughly after handling.  P270 Do not eat, drink or smoke when using this product.  P271 Use only outdoors or in a well-ventilated area.  P280 Wear protective gloves/protective clothing/eye protection/face protection.  P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician Skin with water/shower.  P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. R skin with water/shower.  P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breath P330 Rinse mouth.  P361+P364 Take off immediately all contaminated clothing and wash it before reuse.  P370+P378 In case of fire: Use carbon dioxide, alcohol-type foam or dry chemica extinguish.  P403+P233 Store in a well ventilated place. Keep container tightly closed.	roodationary otator			
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P501 Dispose of contents/container in accordance with local regulations.	P501	Dispose of contents/container in accordance with local regulations.		

## **Potential Health Effects**

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

## **NFPA Ratings**

3		
Health	2	
Flammability	3	
Reactivity	0	
Specific hazard	Not Available	

## **HMIS Ratings**

Health	2
Fire	3
Reactivity	0

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight %	CAS#	EINECS# / ELINCS#	Formula	Molecular Weight
Methyl Alcohol	90	67-56-1	200-659-6	CH₃OH	32.04 g/mol
Water	Balance	7732-18-5	231-791-2	H <sub>2</sub> O	18.00 g/mol

## 4. FIRST- AID MEASURES

Eyes	Rinse with plenty of water for at least 15 minutes and seek medical attention.		
Inhalation	Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not		
	breathing, give artificial respiration. Get medical attention.		
Skin	Flush with plenty of water for at least 15 minutes while removing contaminated clothing and		
	wash using soap. Get medical attention.		

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Ingestion	Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If		
	conscious, wash out mouth with water. Get medical attention.		

#### 5. FIREFIGHTING MEASURES

Suitable (and unsuitable) extinguishing media	Flammable liquid. Use carbon dioxide, alcohol-type foam or dry chemical. Containers may explode in a fire. Cool containers from a distance using water spray.
Special protective equipment and precautions for firefighters	Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.
Specific hazards arising from the chemical	Containers may rupture in the heat of the fire. Do not use direct stream, as it may spread the fire. Emits toxic fumes (carbon oxides) under fire conditions. Vapors may collect in low areas. (See also Stability and Reactivity section.)

## **6. ACCIDENTAL RELEASE MEASURES**

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

#### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. 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. Do not store with acids, acid chlorides, acid anhydrides, oxidizing agents, alkali metals, reducing agents. Keep away from incompatible materials (see section 10 for incompatibilities).

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure controls: Ventilation and appropriate grounding of containers

Component	Exposure Limits	Basis	Entity
Methyl Alcohol	200 ppm (262 mg/m <sup>3</sup> )	TWA	ACGIH® TLV® - Skin; BEI
	250 ppm (328 mg/m <sup>3</sup> )	STEL	ACGIH® TLV® - Skin; BEI
	200 ppm (260 mg/m <sup>3</sup> )	TWA	OSHA PELs
	200 ppm (260 mg/m <sup>3</sup> )	TWA	NIOSH RELs - Skin

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250 ppm (325 mg/	/m³) STEL	NIOSH RELs - Skin	
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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**

Eyes	Wear chemical safety glasses with face shield.
Inhalation	Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an
	approved respirator.
Skin	Wear nitrile or rubber gloves, apron or lab coat. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Other	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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.)	Clear, colorless liquid
Odor	Mild alcohol.
Odor threshold	Not Available
pH	Not Available
Melting point/freezing point	-98°C (-144°F)
Initial boiling point and boiling range	65°C (143°F)
Flash point	12°C (54°F)
Evaporation rate	Not Available
Flammability (solid, gas)	Flammable
Upper/lower flammability or explosive limit	LFL: 6.0% UFL:36.0%
Vapor pressure	Not Available
Vapor density	Not Available
Relative density	0.8250 (water = 1)
Solubility (ies)	Completely soluble in water
Partition coefficient: n-octanol/water	Not Available
Auto-ignition temperature	Not Available
Decomposition temperature	Not Available

## 10. STABILITY AND REACTIVITY

Chemical Stability	Stable
Possibility of Hazardous Reactions	Will not occur.
Conditions to Avoid	Keep away from heat, flame and sparks.
Incompatible Materials	Do not store with strong oxidizing agents, strong acids, peroxides, aldehydes, halogens, ammonia, acid anhydrides or alkali metals.
Hazardous Decomposition Products	Carbon oxides.

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## 11. TOXICOLOGICAL INFORMATION

## **Acute Toxicity**

Methanol

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

Carcinogenicity

IARC	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.
ACGIH	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.
NTP	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.
OSHA	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

Skin	Burning, itching, redness may be harmful if absorbed through skin.
Eyes	Causes irritation. Redness, excessive blinking and watering eyes.
Respiratory	Coughing, wheezing, headache, disorientation, blurred vision, dizziness, fatigue or
	nausea.
Ingestion	Nausea, vomiting, may cause blindness and central nervous system depression.

Chronic Toxicity	Ingestion may cause blindness.
Teratogenicity	Not Available
Mutagenicity	Not Available
Embryotoxicity	Pre-and Post- implant mortality
Specific Target Organ Toxicity	Single exposure- Causes damage to organs.
Reproductive Toxicity	Not Available
Respiratory/Skin Sensitization	Not Available

## 12. ECOLOGICAL INFORMATION

# **Ecotoxicity** *Methanol*

Aquatic Vertebrate	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	
Aquatic	EC50- Daphnia magna (Water flea)- 24,500.00 mg/l- 48 h	
Invertebrate	EC100- Daphnia magna (Water flea)- 10,000.00 mg/l- 24 h	
Terrestrial	Not Available	

Persistence and Degradability	Not Available
Bioaccumulative Potential	BCF of 1
Mobility in Soil	Not Available
PBT and vPvB Assessment	Not Available
Other Adverse Effects	Not Available

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## 13. DISPOSAL CONSIDERATIONS

Waste Residues	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.
Product	Users should review their operations in terms of the applicable federal/national or
Containers	local regulations and consult with appropriate regulatory agencies if necessary
	before disposing of waste product container.

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.

## 14. TRANSPORTATION INFORMATION

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

## 15. REGULATORY INFORMATION

TSCA Inventory Status	All ingredients are listed on the TSCA Active inventory.
DSL / NDSL	All ingredients are listed on the DSL inventory.
California Proposition 65	Listed: Methyl Alcohol
Rhode Island: Hazards Substance List	Listed: Methyl Alcohol
Massachusetts: Toxic or Hazardous Substance List Right to Know	Listed: Methyl Alcohol
Pennsylvania: Hazardous Substance List	Listed: Methyl Alcohol
New Jersey: Right to Know Hazardous Substance List	Listed: Methyl Alcohol
SARA 302	Not Listed
SARA 304	Not Listed
SARA 311	Fire Hazard, Acute Health Hazard, Chronic
	Health Hazard
SARA 312	Fire Hazard, Acute Health Hazard, Chronic
	Health Hazard
SARA 313	Listed: Methyl Alcohol
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

Revision	Date
Revision 1	06/25/2013
Revision 2	12/09/2014
Revision 3	08/23/2021
Revision 4	05/16/2023

Disclaimer: The information provided in this Safety Data Sheet ("SDS") is correct to the best of our knowledge, information, and belief at the date of publication. The information in this SDS relates only to the specific Product identified under Section 1, and does not relate to its use in combination with other materials or products, or its use as to any particular process. Those handling, storing, or using the Product should satisfy themselves that they have current information regarding the particular way the Product is handled, stored or used and that the same is done in accordance with federal, state and local law. WE DO NOT MAKE ANY WARRANTY, EXPRESS OR IMPLIED, INCLUDING (WITHOUT LIMITATION) WARRANTIES WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN OR WITH RESPECT TO FITNESS FOR ANY PARTICULAR USE. WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, INJURY, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT.

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