

Methanol

1. Product and Company Identification

Product Name Methanol

Synonyms Methyl alcohol, Wood alcohol, Carbinol, Methyl

hydroxide, Wood naphtha

MSDS Number Z2913

Company Identification Wausau Chemical Corporation

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Telephone Wausau Chemical Corporation – 715.842.2285

CHEMTREC - 800.424.9300

NFPA diamond and HMIS ratings for this product may be found in section 16 of this Safety Data Sheet.

2. Hazards Identification

Form Liquid

Color Clear, colorless
Odor Slight alcohol odor

OSHA/HCS Status This material is considered hazardous by the OSHA Hazard Communication Standard (29

CFR 1910.1200): flammable liquid, target organ effect, toxic by inhalation, toxic by

ingestion, toxic by skin absorption.

Target Organs Eyes, liver, kidney, heart, central nervous system

GHS Classification Flammable liquids (Category 2)

Acute toxicity, Oral (Category 3)
Acute toxicity, Inhalation (Category 3)
Acute toxicity, Dermal (Category 3)

Specific target organ toxicity – single exposure (Category 1)

Pictogram







Signal Word Danger

Hazard Statement(s)

H225 Highly flammable liquid and vapor.

H301 + H311 +

H331

Toxic if swallowed, in contact with skin, or if inhaled.

H370 Causes damage to organs.

Precautionary Statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P280 Wear protective gloves/ protective clothing.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.

P307 + P311 IF exposed: Call a POISON CENTER or doctor/physician.

Potential Acute Health Effects

Inhalation Toxic if inhaled. Causes respiratory tract irritation.

Ingestion Toxic if swallowed.

Skin Toxic if absorbed through skin. Causes skin irritation.



Eyes Causes eye irritation.

See section 11 for more detailed information on health effects and symptoms

Composition/Information on Ingredients

Ingredient Name **CAS Number** WT %

67-56-1 100 Methanol

4. First Aid Measures

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin Contact Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a

physician.

If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical Inhalation

attention.

Ingestion Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse

mouth with water. Consult a physician.

Protection of First Aid

Personnel

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If it is suspected that dust, vapor, mist, or gas are still present, the rescuer should wear an

appropriate mask or self-contained breathing apparatus.

5. Fire-fighting Measures

Flammability of the Product Highly flammable

Flash Point (Method) 49.5 °F (9.7 °C) – (closed cup)

Auto Ignition Temperature 851 °F (455 °C)

Extinguishing Media

Suitable Water spray, dry chemical, carbon dioxide, or alcohol resistant foam.

Not Suitable Not available

Special Fire-fighting

Procedures & Hazards

Wear chemical protective clothing and positive pressure, self-contained breathing

apparatus. Avoid vapors as they are heavier than air and may travel to a source of ignition

and flash back.

Unusual Fire & Explosion

Hazards

Containers may explode in heat of fire. Keep runoff away from sewer. Containers must be

bonded and grounded when transferring from one container to another.

Accidental Release Measures

Personal Precautions Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate

> ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low

areas.

Environmental Precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Spill Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-

brushing and place in container for disposal according to local regulations.

7. Handling and Storage

Handling Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Use explosion-proof

equipment. Keep away from sources of ignition - No smoking. Take measures to prevent

the build-up of electrostatic charge.

Storage Keep container tightly closed in a dry and well-ventilated place. Containers which are

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opened must be carefully resealed and kept upright to prevent leakage.

8. Exposure Controls/Personal Protection

Ingredient Name ACGIH TLV OSHA PEL

Methanol 200 ppm 200 ppm TWA

260 mg/m³ TWA

ventilation system. Supply ample air replacement.

Hygiene Measures Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately

after handling the product.

Respiratory If airborne concentrations are above the applicable exposure limits, use NIOSH-approved

respiratory protection. If respiratory protection is needed, use only protection authorized in

the U.S. Federal OSHA Standard (29 CFR 1910.134).

Eyes and Face Wear safety glasses with side shields (or goggles) and a face shield.

Skin Wear chemically impervious gloves, made of any waterproof material. Complete suit

protecting against chemicals, flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the

dangerous substance at the specific workplace.

9. Physical and Chemical Properties

Appearance Clear, colorless liquid

Odor Slight alcohol odor

pH Not available

Water Solubility Complete

Vapor Density (air = 1) 1.11

Evaporation rate (butyl acetate = 1) Not determined

Boiling Point (°F) 148.5 °F (64.7 °C)

Melting Point (°F) -144 °F (-98 °C)

Specific Gravity (@ 77 °F) 0.791

Vapor Pressure Not determined

Volatile Organic (VOC) Content 100%

10. Stability and Reactivity

Stable: X Unstable: Hazardous Polymerization: Occurs: Does Not Occur: X

Conditions to Avoid Heat, flames, and sparks. Extremes of temperature and direct sunlight.

Materials to Avoid Acid chlorides, acid anhydrides, oxidizing agents, alkali metals, reducing agents, acids

Decomposition Products Irritating smoke and fumes. Carbon monoxide and carbon dioxide are formed as

combustion products.

11. Toxicological Information

Eye Causes eye irritation.

Methanol Not available

Dermal Toxic if absorbed through skin. Causes skin irritation.



Methanol LD50 (rabbit) – 17,100 mg/kg

Inhalation Toxic if inhaled. Causes respiratory tract irritation.

Methanol LC50 (rat) - 128.2 mg/l - 4hr.

LC50 (rat) - 87.6 mg/l - 6 hr.

Oral Toxic if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting, and

diarrhea.

Methanol LD50 (human) – 143 mg/kg

LD50 (rat) - 1187 - 2769 mg/kg

Chronic Effects

Carcinogenicity No component 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, or NTP.

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 to the liver and kidney are possible.

12. Ecological Information

Biodegradability Product is biodegradable.

Ecotoxicity Toxicity to fish:

Mortality LC50 – Lepomis macrochirus (bluegill) – 15,400 mg/l – 96 hr.

NOEC - Oryzias latipes - 7,900 mg/l - 200 hr.

Toxicity to aquatic invertebrates:

EC50 – Daphnia magnia (water flea) – > 10,000 mg/l – 48 hr.

Toxicity to algae:

Growth inhibition EC50 - Scenedesmus capricornutum (fresh water algae) -

22,000 mg/l - 96 hr.

13. Disposal Considerations

Waste Disposal Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra

care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal

service to dispose of this material.

RCRA Methanol (U154) is considered a hazardous waste if and when it is discarded.

14. Transportation

The data provided in this section is for information only and may not be specific to your package size or mode of transport. You will need to apply the appropriate regulations to properly classify your shipment for transportation.

US DOT 49 CFR 172.101	Non-bulk Shipments (Drums/Totes)	Bulk Shipments (Tank Trucks/Rail Cars)
Proper Shipping Name	Methanol	Same
Hazard Class	3	Same
Identification Number	UN1230	Same
Packing Group	II	Same
Reportable Quantities	RQ=5000 lbs.	Same
Placards/Labels	Flammable	Same



15. Regulatory Information

CERCLA / SARA A spill or release of this material may trigger the emergency release reporting

Emergency Reporting requirements under CERCLA (40 CFR Part 300) and/or SARA Title III (40 CFR Part 355).

State or local reporting requirements may differ from federal requirements. Consult

counsel for further guidance on your responsibilities under these laws.

CERCLA reporting quantity: 5000 Pounds

SARA Title III Section 313 The following components are subject to reporting levels established by SARA Title III,

Section 313:

Methanol (CAS# 67-56-1)

Clean Water Act (CWA)

Section 311

The following chemicals are listed under Section 311 as hazardous substances requiring the submission of a National Pollutant Discharge Elimination System (NPDES) permit

application to EPA.

Product not listed

TSCA - Toxic Substances

Control Act

RCRA – Resource

Conservation and Recovery

Act

All components of this product are listed on the Toxic Substances Control Act Inventory or

are excluded from listing requirements.

The requirements of the federal hazardous waste regulations do not apply unless the waste fails to pass any of EPA's four tests for determining hazardous wastes. Note: If this product is altered, it is the responsibility of the user to determine whether the material

meets the criteria for hazardous waste at the time of disposal.

Methanol - U154, Toxic (non-acute) Hazardous Waste

State Regulations

Massachusetts RTK Substances: The following components are listed: Methanol (CAS# 67-56-1)

New Jersey RTK Substances: The following components are listed: Methanol (CAS# 67-56-1)

Pennsylvania RTK Substances: The following components are listed: Methanol (CAS# 67-56-1)

California Proposition 65: This product does not contain any chemicals known to the State of

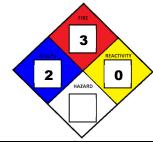
California to cause cancer, birth defects, or any other reproductive harm.

16. Other Information

Date of Issue 6/7/2

6/7/2013 (updated 4/8/2014)





HMIS

HEALTH	2
FLAMMABILITY	3
PHYSICAL HAZARD	0
PPE	

Caution: NFPA and HMIS ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although these ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them.

The customer is responsible for determining the PPE code for this material.

Notice to Reader

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