

SAFETY DATA SHEET

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

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MATERIAL NAME: **METHANOL**
REVISED: March 1, 2022

CHEMICAL FAMILY: Alcohol
Product Number: 060-METHANO

SECTION 2. HEALTH HAZARD INFORMATION

GHS Classifications

H225: Flammable liquid: Category 2
H301: Acute toxicity oral : Category 3
H331: Acute toxicity inhalation : Category 3
H311: Acute toxicity dermal: Category 3
H370: Special target organ systemic toxicity single exposure : Category 1

Pictograms or Hazard symbols



Signal Word: Danger
Highly flammable liquid and vapor
Toxic if swallowed, inhaled, or in contact with skin.
Causes damage to blood and other organs.

Precautionary Statement Prevention

P210 Keep away from heat, flames, and hot surfaces. No smoking.
P233 Keep container tightly closed.
P241 Use explosive-proof equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P260 Do not breathe fume/gas/mist/vapors.
P264 Wash thoroughly after handling.
P270 Do not eat, drink, or smoke when using this product.
P280 Wear protective gloves, clothing, and eye and face protection.
P301 + P310 If swallowed, immediately call a physician.
P302 + P352 If on skin, wash with plenty of water. Remove contact lenses if present and easy to do so. Continue rinsing.
P303 + P361 + P353 If on skin (or hair) take off immediately all contaminated clothing. Rinse skin with water.

P308 + P311 If exposed or concerned, call a physician.

P312 Call a physician if you feel unwell.

P330 Rinse mouth.

P361 + P364 Take off immediately all contaminated clothing and wash it before reuse.

P370 + P378 In case of fire use alcohol foam, carbon dioxide, or dry chemical to extinguish.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 3.COMPOSITION/INFORMATION ON INGREDIENTS

Material		Wt %
Methyl Alcohol	CAS# 67-56-1	100

SECTION 4. FIRST AID MEASURES

EFFECTS OF OVEREXPOSURE

FIRST AID:

Inhalation:

A slight irritant to the mucous membranes. Toxic effects exerted upon nervous system, particularly the optic nerve. Once absorbed into the body, it is very slowly eliminated. Symptoms of overexposure may include headache, drowsiness, nausea, vomiting, blurred vision, blindness, coma, and death. A person may get better but then worse again up to 30 hours later.

Ingestion:

Toxic. Symptoms parallel inhalation. Can intoxicate and cause blindness. Usual fatal dose: 100-125 milliliters.

Skin Contact:

Methyl alcohol is a defatting agent and may cause skin to become dry and cracked. Skin absorption can occur; symptoms may parallel inhalation exposure.

Eye Contact:

Irritant. Continued exposure may cause eye lesions.

Chronic Exposure:

Marked impairment of vision has been reported. Repeated or prolonged exposure may cause skin irritation.

Aggravation of Pre-existing Conditions:

Persons with pre-existing skin disorders or eye problems or impaired liver or kidney function may be more susceptible to the effects of the substance. **Eye Contact:** Irritant to naked eye; in case of contact flush eyes well for 15 minutes, lifting the lower and upper eyelids occasionally. Vapors cause irritation.

SECTION 5. FIRE FIGHTING MEASURES

Flash Point and Method	Autoignition Temp.	Flammability Limits In Air	<u>LOWER</u>	<u>UPPER</u>
12 °C CC	464 °C		6	36

Explosion: Above flash point, vapor-air mixtures are explosive. Contact with strong oxidizers may cause fire or explosion. Vapors are heavier than air and can flow along surfaces to distant ignition sources and flash back. Sensitive to static discharge.

Extinguishing media: Alcohol foam, dry chemical, or carbon dioxide (water may be ineffective).

Special fire fighting procedures: Wear full protective clothing and NIOSH self-contained breathing apparatus. Thermal decomposition produces toxic fumes. Vapors may flow along surfaces to distant ignition sources and flash

back.

SECTION 6. ACCIDENTAL RELEASE MEASURES

SPILLS, LEAKS: Ventilate area of leak or spill. Clean up personnel should wear protective clothing and NIOSH approved respirator. Dike and cover the contaminated areas with absorbent material such as vermiculite or sand. Transfer to a closed container and send to an approved waste disposal facility. Remove all ignition sources.

SECTION 7. HANDLING AND STORAGE

Storage & Handling Information Store below 80 degrees F. Store in a cool dry place. Do not store near incompatible products, ignition sources, or open flame. Store away from direct sunlight.

SECTION 8. EXPOSURE CONTROL/PERSONAL PROTECTION

Respiratory protection: If exposure limits are exceeded, wear NIOSH/MESA approved full or half face piece (with goggles) respiratory protective equipment. A respiratory protection program complying with requirements of 29CFR 1910.134 is recommended.

Ventilation: Where adequate ventilation is not available, use NIOSH approved vapor respirator with organic filters. Local ventilation through fume hoods or laminar flow stations is also preferred. Keep fumes away from ignition sources, sparks, or open flame.

Protective gloves: Skin contact should be minimized through use of rubber gloves.

Other protective equipment: Steel tipped shoes/eye wash station/chemical safety chemical retardant clothing.

Eye protection: Safety goggles / face shield.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form :	liquid
Appearance :	colorless
Odor :	Characteristic odor
pH :	no information
Melting point:	-98 °C
Boiling point/Boiling range :	64.5 °C
Flash point :	12 °C CC
Ignition point :	464 °C
Danger of explosion:	6-36
Decomposition temperature:	no information
Vapor density (Air = 1) :	1.1
Volatiles, %:	100
Vapor pressure at 25° C, mm Hg:	97
Specific gravity :	0.8 g/cc
Solubility in / Miscibility:	Completely miscible in water
Evap. Rate (Water = 1):	5.9

SECTION 10. STABILITY AND REACTIVITY

Stability Stable X Conditions to avoid: Excess heat , flame
 Unstable

Incompatible with:
Strong reducing agents, ammonia, powdered metals, alkali metals, oxidizers.

Hazardous decomposition products: carbon dioxide, carbon monoxide, formaldehyde
Hazardous polymerization: May occur Conditions to avoid: Excess heat, sunlight.
Will not occur X

SECTION 11. TOXICOLOGICAL INFORMATION

Oral, rat LD₅₀: 5,628 mg/kg
Irritation eye rabbit, standard Draize, 20 mg/24 hours severe
Inhalation, rat LC₅₀: 64,000 ppm
Skin, rabbit LD₅₀: 15800 mg/kg
Investigated as a mutagen, reproductive effector

Known carcinogen: No

Anticipated carcinogen: No

SECTION 12. ECOLOGICAL INFORMATION

Environmental Fate: When released into the soil, this material is expected to biodegrade readily. When released into the soil, this material is expected to leach into groundwater and quickly evaporate. This material is not expected to significantly bioaccumulate. When released into the air, this material may be moderately degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, this material may be moderately degraded by photolysis. When released into the air, this material is expected to be readily removed from the atmosphere by wet deposition.

Ecotoxicity : This material is expected to be slightly toxic to aquatic life.

SECTION 13. DISPOSAL CONSIDERATIONS

DISPOSAL: Dispose of in accordance with all federal state and local regulations. Send waste to an approved waste disposal facility.

SECTION 14. TRANSPORTATION INFORMATION

Proper shipping name: Methanol

Hazard Class: 3

UN1230

Packing Group II

SECTION 15. REGULATORY

NFPA: 1-3-0

WHMIS: 1-3-0

Risk Symbol: F

Risk Phrases:

R11: Highly flammable

R18: In use, may form flammable/explosive vapor-air mixture

R36/37: Irritating to eyes and respiratory system

Safety Phrases:

S3/7: Keep container tightly closed in a cool place

S16: Keep away from sources of ignition—No smoking

S20/21: When using do not eat, drink, or smoke

The following component of this product is regulated as a toxic chemical under section 313 of Title III SARA, and 40CFR 372:

Methanol, CAS# 67-56-1

SECTION 16. OTHER INFORMATION

TSCA listed