

SAFETY DATA SHEET

1. Product Identification

Champion Brands, LLC 1001 Golden Drive Clinton, MO 64093 (660) 885-8151

Product line: CHAMPION ® Clear Methanol

Products: 4091 **CAS**: 67-56-1

Synonyms: Methyl alcohol

Recommended use: Multipurpose chemical

Restrictions: Do not use near heat/sparks/open flames.

Created: 14 February 2012 **Revised:** 3 August 2012

Emergency phone: CHEMTREC: (+1) 800-424-9300

2. Hazards Identification

Appearance: Clear, colorless liquid Mild alcohol odor

Classification(s): Flammable Liquid, Category 3

Acute Toxicity, Category 1*

Reproductive Toxicity, Category 1B Target Organ Toxicity, Repeat Cat. 2 Aspiration Hazard, Category 1**

Central Nervous System, Eyes

Target organs: Symbol(s):







Signal Word: DANGER

Hazard Statement(s): Flammable liquid and vapor. Fatal if swallowed. May

damage fertility or the unborn child (fetotoxic and teratogenic effects). May cause damage to the eyes and central nervous

system. May be fatal if swallowed and enters airways

Other hazard(s): Repeated exposure may cause dryness of the skin

Precaution(s): Keep away from heat/sparks/open flames/hot surfaces – no

smoking. Do not breathe mist/vapors/spray. Use in a well ventilated area. Wear protective gloves/protective clothing. Do no ingest. IF SWALLOWED: Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

Disposal: Keep out of waterways. Check local, national, and

international regulations for proper disposal

3. Composition/Information on Ingredients

Hazardous Ingredients:

Component	CAS No.	Conc (wt%)
Methanol	67-56-1	98 – 100

4. First Aid Measures

Eyes Remove contact lenses, if worn. Rinse with running water for

at least 15 minutes, lifting upper and lower eyelids

occasionally. Seek medical attention.

Skin Remove affected clothing and launder before reuse. Wash

affected area for at least 15 minutes with soap and running water. Prolonged or repeated exposure may cause defatting of the skin – symptoms include redness, dryness, cracking

Inhalation Remove exposed person to fresh air immediately. Restore or

assist breathing, if necessary. Get medical attention

immediately – symptoms of exposure may include giddiness,

intoxication, CNS depression, or coma

Ingestion Swallowing methanol is potentially lethal. Symptoms of

methanol poisoning may be delayed up to 24 hours. Do NOT

induce vomiting. If ingested, do not wait for symptoms to

develop – Seek medical attention IMMEDIATELY.

Additional Info Specific Treatments

Note to physician: Treat for methanol poisoning Inhibit oxidation of methanol by administering ethanol or

initibil oxidation of methanol by administening ethanol (

fomepizole. Increase formic acid metabolism by

administering IV folinic acid. Treat acidosis with IV sodium

bicarbonate.

^{*}Classified based on human experience and epistemological data, not based on strict application of the GHS criteria

^{**}Classified based on human experience and very low viscosity, not based on strict application of the GHS criteria

5. Fire Fighting Measures

NFPA (estimated): Health – 1 Fire – 3 Instability – 0

Flash Point 35°C / 95°F

Extinguishing Media CO₂, dry chemical, water spray, aqueous film forming foam

(alcohol resistant) type with 3% or 6% foam proportioning

system.

Unsuitable Media General purpose synthetic foams or protein foams may work,

but much less effectively. Water may be effective for cooling, but may not be effective for extinguishing a fire because it

may not cool methanol below its flash point

Firefighting Procedures: Methanol burns with a clean, clear flame that is almost

invisible in daylight. Stay upwind! Isolate and restrict area access. Concentrations of greater than 25% methanol in water can be ignited. Use fine water spray or got to control fire spread and cool adjacent structures of containers.

Contain fire control water for later disposal. Fire fighters must wear full face, positive pressure, self-contained breathing apparatus or airline and appropriate protective fire fighting clothing as per NFPA. Not that methanol fires may require proximity suits. Take care not to walk through any spilled

chemical.

Unusual Hazards Burns with a clean flame that is difficult to see in certain

conditions. Vapors may travel long distances along the ground and may be ignited from distant sources. See section

10 for additional information

6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures:

Flammable liquid – can burn without a visible flame. Do not walk through spilled material. Keep unnecessary personnel away. Wear appropriate personal protective equipment for emergency. Ventilate if released in a confined area.

Eliminate sources of ignition if it is safe to do so.

Environmental precautions: Avoid release to the environment. Prevent from

entering into soil, ditches, sewers, waterways or groundwater

Methods for removal: Use an explosion-proof pump to remove bulk liquid. Residual

liquid can be absorbed on inert material. Use only non-

sparking tools.

7. Handling and Storage

Max. Handling Temp: Do not store or handle at elevated temperatures. See

Section 5 for flammability and Section 10 for chemical

stability

Procedures: Use only in a well ventilated area. Avoid breathing vapors.

Keep containers closed when not in use. Use appropriate containment to avoid environmental contamination. Vapors are heavier than air and will tend to accumulate in low areas. Avoid use in confined areas without adequate ventilation. Areas of inadequate ventilation could contain concentrations high enough to cause eye irritation, headaches, intoxication, nervous system depression or methanol poisoning. Avoid breathing dust, fume, gas, mist, vapors, or spray. Wash thoroughly after handling. Launder contaminated clothing before reuse. Empty container contains product residue which may exhibit hazards of the product. Do no weld, heat, or pressurize empty containers. Do not re-use containers. Dispose of packaging or containers in accordance with local, regional, national, and international regulations. Store away from strong oxidizers

Max Store Temp: Do not store or handle at elevated temperatures.

8. Exposure Controls/Personal Protection

Exposure Limits

US

Guidelines by component

Methanol (CAS # 67-56-1)

OSHA TWA: 200 ppm or 260mg/m³ OSHA STEL: 250 ppm or 325mg/m³

ACGIH TWA: 200 ppm ACGIH STEL: 250 ppm

Other Exposure Limits: Not determined

Engineering Controls: Use in a well ventilated area. Local and general ventilation

should keep methanol vapor concentration below permissible limits. Where exposure potential exceeds recommended limits, use a NIOSH/OSHA approved supplied air respirator as recommended. Vapors are heavier than air and will tend

to accumulate in low-lying areas.

Personal Protective Equipment

Respiratory (based on methanol concentrations):

<2000 ppm: supplied air respirator

<5000 ppm: supplied air respirator operated in continuous-flow mode <6000 ppm: supplied air respirator with a tight-fitting facepiece operated in</p>

a continuous-flow mode; or Full facepiece self-contained breathing apparatus or full facepiece supplied air respirator

Eye: Face shield or chemical splash goggles when splashing may

occur. If possible, remove contact lenses before handling

Gloves: Use butyl rubber or nitrile rubber gloves.

Clothing: Use chemical resistant pants and jackets, preferably of butyl

or nitrile rubber

Other: Locate the nearest eyewash station and safety shower before

handling this product. Limit exposure whenever possible. Consider flammability and always use non-sparking tools.

Hygiene: Wash thoroughly after handling this product.

9. Physical and Chemical Properties

Appearance Clear, colorless liquid Odor Mild alcoholic odor Odor threshold Not determined pН Not determined **Melting Point** -26°C / -15°F Initial Boiling Pt 82°C / 180°F Flash Point 35°C / 95°F **Evaporation Rate** Not determined Upper Flammable Lm Not determined

Explosive Data Vapors of this product may form explosive mixtures with air

Vapor Pressure
Vapor Density
Volatile Organics

Not determined
>1 (where air = 1)
Not determined

Lower Flammable Lm Not determined

Density 0.957 mg/cu. cm @15.6°C

Solubility Miscible in water, alcohol; insoluble in organic solvents

KowNot determinedViscosityNot determinedAutoignition PointNot determinedDecomposition TempNot determined

10. Stability and Reactivity

Stability Material is normally stable at ambient temperatures and

pressures. Has low vapor pressure – vapors may form

explosive mixtures with air!

Decomposition Temp Not determined **Incompatibility** Oxidizers and statement of the comparison of the companion of the comparison of the

Oxidizers and strong acids or bases. Contact with these

materials may cause violent or explosive reactions. May react with metallic aluminum or magnesium to generate

explosive hydrogen gas.

Polymerization

Will not occur

Thermal Decomposition Primarily oxidizes to carbon dioxide in normal combustion

conditions. In lower oxygen environments carbon monoxide,

formaldehyde, or formic acid may be formed.

Conditions to Avoid

Flammable liquid and vapor – keep away from strong oxidizers, acids, bases as well as heat/sparks/open

flames/hot surfaces

11. Toxicological Information

- Acute Exposure -

Eye Irritation Expected to cause mild to moderate irritation of the eye if

exposed to liquid or in high vapor concentrations. May cause

irritation, tearing, or burning of the eyes.

Skin Irritation Expected to be mildly irritating to the skin. Symptoms of

irritation may include redness, drying, and cracking of the

skin.

Respiratory Irritation Methanol may cause irritation of mucous membranes,

especially if concentrations exceed 1000 ppm.

Dermal Toxicity Methanol can be absorbed through the skin and presents a

toxicity hazard similar to that of inhalation or ingestion.

Inhalation Toxicity Inhalation of this product may be harmful or fatal. Symptoms

may include headaches, sleepiness, nausea, confusion, loss of consciousness, digestive and visual disturbances and even death. If exposure exceeds recommended levels, or if you feel unwell – seek medical help for methanol poisoning. If left untreated, may cause permanent blindness, nervous system

effects, or death.

Oral Toxicity Toxic or fatal if ingested. Symptoms of methanol poisoning

include heachaches, sleepiness, nausea, confusion, intoxication, loss of consciousness, digestive and visual disturbances, coma or death. Seek medical attention immediately for methanol poisoning. If ingested, DO NOT wait for symptoms to develop before getting treatment.

Aspiration Hazard This product has a very low viscosity and may be fatal if

aspirated into the airways. Do NOT induce vomiting, as this

increases risk of aspiration.

- Chronic Exposure -

Chronic Toxicity This product may cause dryness or defatting of the skin,

dermatitis, or may aggravate existing skin conditions.

Carcinogenicity This product and its components are NOT listed by the IARC,

NTP, ACGIH, or OSHA as carcinogens

Mutagenicity Available information does not suggest that this product is a

germ cell mutagen

Reproductive Toxicity Available information does not suggest that this product is a

reproductive toxin.

Teratogenicity Methanol has produced fetoxicity in rats and teratogenicity in

mice exposed by inhalation to high concentrations of

methanol vapors.

- Additional Information -

Target organ toxicity Product is toxic to organs: Central nervous system, eyes.

Methanol poisoning produces metabolic acidosis (formic acid)

that may damage the liver, kidneys, or other organs.

Synergistic effects In animals, high concentrations of methanol has increased

the toxicity of other chemicals, particularly liver toxins such as carbon tetrachloride. Ethanol significantly *reduces* the toxicity of methanol due to competition with alcohol dehydrogenase,

and is sometimes used to treat methanol poisoning

Pharmacokinetics Methanol is oxidized to carbon dioxide and water in a multi-

step process. Metabolic intermediates are responsible for the toxicity of methanol. The half-life of methanol is 1.5-3 hours

for low doses (less than 100mg/kg).

12. Ecological Information

- Environmental Toxicity -

Freshwater Fish Acute LD50 = 63 g/l (96h)

Freshwater Invertebrates Acute LD50 = 120g/l (48h); 33g/l (24h)

Algae Not determined
Saltwater Fish Not determined
Saltwater Invertebrates Not determined
Bacteria See Miscallaneous

Miscellaneous Study of methanol on sewage sludge bacteria reported a

retardation of bacterial digestion at concentrations of 0.5%.

- Environmental Fate -

Biodegradation This product easily biodegrades in water and soil. Products

of biodegradation are carbon dioxide and water.

Bioaccumulation Product is very mobile in soil and water and is volatile – it is

not expected to bioaccumulate.

Soil Mobility Product has high mobility in soil, and evaporates easily at

environmentally relevant temperatures

Other Effects Not determined

13. Disposal Considerations

Disposal Considerations

All disposal practices must be in accordance with local, regional, national, and international regulations. Store material for disposal as indicated in Section 7. Disposal by controlled incineration or by secure land fill may be acceptable – review applicable regulations or regulatory bodies before making disposal decisions.

Contaminated Containers or Packaging

Empty containers are likely to contain flammable vapors or explosive mixtures of vapor and air. Do NOT weld, cut, or grind empty containers. Rinse empty containers with water and dispose of in accordance with local, regional, national, and international regulations

14. Transportation Information

Description shown may not apply to all shipping situations. Consult applicable shipping codes to determine any additional shipping requirements

US DOT

UN No 1986

UN Proper Name Alcohols, flammable, toxic, n.o.s. (methanol solution)

UN Class 3
Packing Group III
Marine Pollutant No

IMDG UN 1986, Alcohols, flammable, toxic, n.o.s. (methanol

solution), Class 3(6.1), PG III

Stowage Cat. "A" (on deck or under deck)

ICAO/IATA UN 1986, Alcohols, flammable, toxic, n.o.s. (methanol

solution), Class 3(6.1), PG III Passenger Aircraft – less than 60L Cargo Aircraft – less than 220L

15. Regulatory Information

- Global Chemical Inventories/Regulations -

USA All components of this material are on the US TSCA

Other TSCA Reg. None known

EU Components of this product and similar mixtures are

registered under REACH. Consult the European Chemicals Agency regarding REACH registration, reporting, and other legal requirements for methanol solutions before importing to

the EU.

New Zealand May require notification before sale under New Zealand

Regulations

Canada All components of this product are listed on the Canadian

Domestic Substances List (DSL).

Canada WHMIS B2, D1B, D2A, D2B

- Other U.S. Federal Regulations -

SARA Ext. Haz. Subst. No chemicals in this product are listed on the SARA 302

Extremely Hazardous Substances list.

SARA Sect. 313 This product contains methanol (CAS # 67-56-1), found in

SARA 313. See 40 CFR 372

SARA 311/312 Class Acute Hazard - YES

Chronic Hazard - YES
Fire Hazard - YES
Reactivity Hazard - NO

CERCLA Haz. Sub. Methanol (CAS # 67-56-1) is listed. See 40 CFR 302

- State Regulations -

CA Prop 65 This product does not contain any chemicals known to the

State of California to cause cancer, birth defects, or any other

reproductive harm.

Right to Know Component	Right to Know States
Methanol (CAS # 67-56-1)	NJ, PA, MA

- Other -

Not determined

16. Other Information

Revision updates may be in many sections and the MSDS should be read in its entirety. Prepared according to the UN Globally Harmonized System for the Classification and Labeling of Chemicals (GHS) by Champion LLC, 1001 Golden Drive, Clinton, Missouri 64735.

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