



# Safety Data Sheet (METHANOL)

## 1 – PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:**..... METHANOL

**CHEMICAL NAME/**

**CLASS/SYNONYMS:** Wood Alcohol, Wood Spirit

**PRODUCT NUMBER:** ..... METHANOL

**UN/NA NUMBER:** ..... 1230

**CHEMICAL FAMILY:** ..... Alcohol

**CAS NUMBER:** ..... 65-56-1

**FORMULA:** CH<sub>3</sub>OH

**COMPANY:**..... **JMN Specialties, Inc.**

1100 Victory Drive – Westwego, Louisiana USA 70094

Phone (504) 341-3749, Fax (504) 341-5868

[www.jmnspecialties.com](http://www.jmnspecialties.com)

**EMERGENCY PHONE:** ..... CALL CHEMTEL: Toll Free US & Canada: (800) 255-3924, Outside  
USA +01-813-248-0585.

**DATE PREPARED:** ..... February 28, 2019

## 2 – HAZARDS IDENTIFICATION

### GHS HAZARD CLASSIFICATION:

#### Physical Hazards

**Flammable Liquids:**..... . Category 3 - Flammable liquid and vapor

#### Health Hazards

**Acute Toxicity (Oral):** ..... . Category 3 - Toxic if swallowed, in contact with skin, inhaled

**Skin Corrosion/Irritation:** ..... . Category 2 - Causes skin irritation

**Serious Eye Damage/Irritation:** Category 2A - Causes eye irritation

**Aspiration Hazard:**..... . Category 1 - May be fatal if swallowed and enters airways

### WARNING LABEL ITEMS INCLUDING PRECAUTIONARY STATEMENTS:

**Pictograms:**



**SIGNAL WORD:**..... DANGER!

### GHS HAZARD AND PRECAUTIONARY STATEMENTS:

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

P101+102+103: If medical advice is needed, have product container or label at hand. Keep out of the reach of children. Read label before use.

P202+270+280+281: Do not handle until all safety precautions have been read and understood. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Use personal protective equipment as required.



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P233+P210+P240+P241+P242+P243+P271+P280+P260+P264+P270: Keep container tightly closed. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Ground/Bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe dust/fume/gas/mist/vapors/spray. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product.

P501: Dispose of contents/container: Treatment, storage, transportation and disposal must be in accordance with Federal, State/Provincial and Local Regulations, and product characteristics at time of disposal.

**TOTAL VOC's:** 6.60 pounds per gallon

### 3 – COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	PERCENT	CAS NUMBER
Methanol	100	67-56-1

### 4 – FIRST-AID MEASURES

**BREATHING (INHALATION):** Remove from exposure area to fresh air immediately. If breathing has stopped, perform artificial resuscitation. Keep person warm and at rest. Treat symptomatically and supportively. Seek medical attention immediately. Qualified medical personnel should consider administering oxygen.

**SWALLOWING (INGESTION):** Give large amounts of fresh water or milk immediately. Do not give anything by mouth if person is unconscious or otherwise unable to swallow. If vomiting occurs, keep head below hips to prevent aspiration. Treat symptomatically and supportively. Seek medical attention immediately.

**EYES:** ..... Flush eye with copious quantities of water. If persistent irritation occurs, obtain medical attention.

**SKIN (DERMAL):**..... Remove contaminated clothing and wash affected skin with soap and water. If persistent irritation occurs, obtain medical attention. When using high pressure equipment, injection of product under the skin can occur. If high pressure injuries occur, the casualty should be sent immediately to a hospital. Do not wait for symptoms to develop.

**NOTE TO PHYSICIAN:** ..... All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. Material, if aspirated into the lungs, may cause chemical pneumonitis. Skin contact may aggravate an existing dermatitis. Treat appropriately.



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### 5 – FIRE-FIGHTING MEASURES

- GENERAL FIRE HAZARDS:** .... Flammable liquid and vapor Flammable. In a fire or if heated, a pressure increase will occur and the contain may burst, with risk of subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Acidic gases formed. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
- AUTOIGNITION TEMP:** 725°F (385°C)
- EXTINGUISHING MEDIA:** Determined by surrounding material. In case of fire, use water fog, dry chemical, CO<sub>2</sub>, or "alcohol" foam.
- SPECIAL FIRE FIGHTING PROCEDURES:** Spilled product on ground may be slippery.
- UNUSUAL FIRE AND EXPLOSION HAZARDS:** ..... Containers may explode from internal pressure if confined to fire. Cool with water spray. Vapor accumulation could flash or explode if in contact with an open flame.

### 6 – ACCIDENTAL RELEASE MEASURES

- SPILL PROCEDURES:** ..... Wear appropriate personal protective equipment before approaching spill site. For small spills, dilute with water to sewer if allowed by local and state regulations. If unable to wash product with water, absorb with inert material (sand or other approved material) and dispose of in accordance with applicable regulations.
- WASTE DISPOSAL:** ..... Treatment, storage, transportation and disposal must be in accordance with Federal, State/Provincial and Local Regulations. Regulations may vary in different locations. Characterization and compliance with applicable laws are the responsibility solely of the generator. Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.
- RCRA STATUS:** ..... If discarded in its purchased form, this product is considered a RCRA hazardous waste. It is the responsibility of the product user to determine at the time of disposal, whether a material containing the product should be classified as a hazardous waste. (40CFR261.20-24).

### 7 – HANDLING and STORAGE

- STORAGE:** Keep in a tightly closed container, stored in a cool, dry, ventilated area below 44°C (110°F). Protect against physical damage. Isolate from incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product. Drum must not be washed out or used for other purposes.



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**HANDLING:**..... Avoid contact with eyes, skin and clothing. Do not inhale vapors and fumes. Wash thoroughly after handling. Use only with adequate ventilation. Do not take internally. For industrial use only.

### 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

#### OCCUPATIONAL EXPOSURE LIMITS

##### HAZARDOUS INGREDIENT

Methanol

##### PEL

200 ppm

##### TLV-TWA

250 ppm



#### EXPOSURE CONTROLS:

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

**RESPIRATORY PROTECTION:** If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 FR 1152, January 8, 1998. Respirator type: Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister. Contact health and safety professional or manufacturer for specific information. Self-Contained Breathing Apparatus may be required for use in confined or enclosed spaces.

#### PROTECTIVE CLOTHING:

**Eye/face protection:** Wear chemical goggles; face shield (if splashing is possible). **Skin protection:** Chemical resistant, impermeable gloves. Gloves should be tested to determine suitability for prolonged contact. Use of impervious apron or chemical suit and chemical resistant boots are recommended.

#### ADDITIONAL MEASURES:

Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Safety shower and eye wash should be available close to work areas.



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### 9 – PHYSICAL / CHEMICAL PROPERTIES

**BOILING POINT:** 149°F (65°C)  
**FREEZING POINT:** -137°F (-94°C)  
**FLASHPOINT:** 52°F (11°C)  
**UPPER FLAME LIMIT (%):** ..... 36%  
**LOWER FLAME LIMIT (%):** ... 6.0%  
**VAPOR PRESSURE:** 97.25 mmHg 20°C  
**VAPOR DENSITY (AIR=1):**..... 1.11  
**SPECIFIC GRAVITY:** ..... 0.79  
**pH:** ..... NA  
**SOLUBILITY IN WATER:**..... Miscible  
**VOLATILITY**  
**INCLUDING WATER:** 6.60 pounds per gallon  
**MOLECULAR WEIGHT:** 32.04 g/mol  
**EVAPORATION RATE:**..... ND  
**PHYSICAL STATE:** ..... Liquid  
**COLOR:** ..... Clear  
**ODOR:**..... Sharp, Alcohol

### 10 – STABILITY and REACTIVITY

**STABILITY:** ..... Stable  
**HAZARDOUS DECOMP.:**..... Will not occur  
**INCOMPATIBILITY:** ..... Halocarbons, combustible materials, metals, oxidizing materials, halogens, metal carbide, bases, acids, amines.  
**HAZARDOUS REACTIONS:** Not expected to be Explosive, Self-Reactive, Self-Heating, or an Organic Peroxide under US GHS Definition(s).

### 11 – TOXICOLOGICAL INFORMATION

**Cancer:** Research shows that the Solvents used in the mixture are unlikely to cause cancer. **Reproductive Effects:** There are no indications that the Solvents used in the mixture causes damage to reproductive organs. Solvents may affect the development of unborn babies. **Organ Systems:** Damage to the brain, liver, bone marrow and kidneys can occur with repeated or excessive inhalation of any solvent vapors.

**THRESHOLD LIMIT VALUE:**... 200 ppm  
**OSHA PEL:**..... 200 ppm  
**LISTED CARCINOGEN:**..... CARCINOGENIC EFFECTS: A4 (Not classifiable for human or animal.) by ACGIH, 3 (Not classifiable for human.) by IARC.  
**DEVELOPMENTAL TOXICITY:** Classified Reproductive system/toxin/female, Development toxin [POSSIBLE]. May cause damage to the following organs: kidneys, liver, skin, central nervous system (CNS). TOXIC. POISON.

**MEDICAL CONDITION AGGRAVATED:** Existing dermatitis.



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### INFORMATION ON ACUTE TOXICOLOGICAL EFFECTS

#### ORAL

**Product:**..... Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Poison, may be fatal or cause blindness if swallowed. Cannot be made non-poisonous. Vapor harmful.

#### DERMAL

**Product:**..... May cause irritation with pain and stinging, especially if the skin is abraded. Methanol has a low potential to cause allergic skin reactions; however, rare cases of allergic contact dermatitis have been reported. May be absorbed through intact skin. Toxic effects are possible through dermal absorption.

#### INHALATION

**Product:**..... Inhalation of high concentrations may cause central nervous system effects characterized by nausea, headache, dizziness, unconsciousness and coma. May cause narcotic effects in high concentration. Causes upper respiratory tract irritation. Inhalation of vapors may cause drowsiness and dizziness. Aspiration of material into the lungs may be fatal. Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

#### REPEATED DOSE TOXICITY

**Product:**..... Product is a colorless, flammable liquid with typical alcohol odor. Toxic by inhalation, in contact with skin and if swallowed. Product may cause central nervous system (CNS) depression characterized by nausea, dizziness, headache, lack of coordination, loss of consciousness, coma and death.

#### SKIN CORROSION / IRRITATION

**Product:**..... Repeated and prolonged exposure to concentrated material may cause dermatitis.

#### SERIOUS EYE DAMAGE / IRRITATION

**Product:**..... Produces irritation, characterized by a burning sensation, redness, tearing, inflammation, and possible corneal injury. May cause transient corneal injury. Toxic.

#### RESPIRATORY OR SKIN SENSITIZATION

**Product:**..... Not expected to be sensitizing based on tests of this product, components, or similar products.

#### MUTAGENICITY

##### IN VITRO

**Product:**..... No Data Available

##### IN VIVO

**Product:**..... No Data Available

##### Specified Substance(s)

##### Information as provided by manufacturer

Methanol

No Data Available

#### CARCINOGENICITY

**Product:**..... Based on available data, the classification criteria are not met.

#### REPRODUCTIVE TOXICITY

**Product:**..... Based on available data the classification criteria are not met. Not classified as hazardous.



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### SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE

**Product:** **INHALATION:** High concentrations of vapor may cause irritation of the respiratory tract, experienced as nasal discomfort and discharge, with chest pain and coughing. Headache, nausea, vomiting, dizziness, and drowsiness may occur. **EYES:** Causes severe irritation experienced as discomfort or pain, excess blinking and tear production, with marked excess redness and swelling of the conjunctiva. **SKIN:** Brief contact may cause slight irritation with itching and local redness. Prolonged contact may cause more severe irritation, with discomfort or pain. **SWALLOWING:** Poison, toxic. May cause headache, dizziness, incoordination, nausea, vomiting, diarrhea, and general weakness. **MAY BE FATAL IF SWALLOWED.**

### SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSURE

**Product:**..... The effects of long-term, low-level exposures to this product have not been determined. Safe handling of this material on a long-term basis should emphasize the avoidance of all effects from repetitive acute exposure. This product may aggravate existing eye, skin, and respiratory conditions.

### ASPIRATION HAZARD

**Product:**..... Droplets of the product aspirated into the lungs through ingestion or vomiting may cause chemical pneumonia.

### OTHER ADVERSE EFFECTS

**Product:**..... Negligible ecotoxicity

## 12 – ECOLOGICAL INFORMATION

### ACUTE TOXICITY

#### FISH

**Product:** 15400 mg/L (ECOTOX: 96 hour, Bluegill sunfish)

#### AQUATIC INVERTEBRATES

**Product:** >10000 mg/L; (IUCLID: 24 hour, Daphnia magna)

### CHRONIC TOXICITY

#### FISH

**Product:**..... NOEC/NOEL > 100 mg/l. (based on similar products / components)

#### AQUATIC INVERTEBRATES

**Product:**..... NOEC/NOEL > 100 mg/l. (based on similar products / components)

### TOXICITY TO AQUATIC PLANTS

**Product:** 8000 mg/L (IUCLID: 16 hr. Scenedesmus quadricauda)

### PERSISTENCE AND DEGRADABILITY

#### BIODEGRADATION

**Product:**..... Readily biodegradable 99% (OECD Test Guideline 301D, 30 day)

#### BIOLOGICAL OXYGEN DEMAND

**Product:** BOD: 600-1200 mg/g (IUCLID)

#### CHEMICAL OXYGEN DEMAND

**Product:** COD: 1400 mg/g (IUCLID)

#### BOD / COD RATIO

**Product:**..... No data available

#### BIOACCUMULATIVE POTENTIAL

**Product:**..... Accumulation in terrestrial organisms is unlikely. Bioaccumulation is unlikely.

#### MOBILITY IN SOIL

**Product:**..... Not expected to partition to sediment and wastewater solids.



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### RESULTS OF PBT AND mPvB ASSESSMENT

**Product:** ..... Not fulfilling PBT (persistent/bioaccumulative/toxic) criteria. Not fulfilling vPvB (very persistent, very bioaccumulative) criteria.

### OTHER ADVERSE EFFECTS

**Product:** ..... Do not allow product to enter surface waters, wastewater or soil. Stability in water reported to be 2.2 years (IUCLID).

## 13 –DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL:** ..... Treatment, storage, transportation and disposal must be in accordance with Federal, State/Provincial and Local Regulations. Regulations may vary in different locations. Characterization and compliance with applicable laws are the responsibility solely of the generator. Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

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## 14 – TRANSPORTATION INFORMATION

*Important Note: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Consult your company's Hazardous Materials/Dangerous Goods expert for information specific to your situation.*



**UN/NA NUMBER:** ..... 1230

**PROPER SHIPPING NAME:** ..... METHANOL

**HAZARD CLASS:** ..... 3

**PACKAGING GROUP :** ..... II

**LETTER:** ..... F (Highly flammable)

**ENVIRONMENTAL HAZARD:** Because of modern treatment methods or method of use of this product, only an insignificant amount of the ingredients reaches the environment. That amount is at such levels as to typically not cause any adverse effects.

**REPORTABLE QUANTITY:** ..... Methanol: CAS# 67-56-1: final RQ = 5000 pounds (2270 kg)





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### 15 - REGULATIONS

This Safety Data Sheet conforms to ANSI Z400.5, and to the format requirements and the International Chemical Safety Cards of the Global Harmonizing System. This SDS complies with 29 CFR 1910.1200 (HAZARD COMMUNICATION STANDARD). **IMPORTANT:** Read this SDS before handling & disposing of this product. Pass this information on to employees, customers, & users of this product.

#### EPA SRA Title III Chemical Listings:

**TSCA STATUS:**..... This product is listed on the TSCA inventory. If this product is a blend, all ingredients in the product are listed on the TSCA Inventory List.  
Any impurities present in this product are exempt from listing.

**SECTION 302:**..... Listed: Methanol

**SECTION 304:**..... Listed: Methanol

**SECTION 312:**..... Yes

**SARA SECTION 313:**..... Methanol: CAS # 67-56-1; 5000 Pounds (2270 Kilograms) which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

**ACUTE:**..... Yes

**CHRONIC:**..... Yes

**FIRE:**..... Yes

**PRESSURE:**..... No

**REACTIVE:**..... No

**CLEAN WATER ACT:**..... No data available

#### **IMDG – International Marine Dangerous Goods Code**

UN1230, Methanol, 3, 6.1, F, T, PGII. EMS-No: F-E, S-D. Marine Pollutant: No Static Accumulator: Yes.

#### **IATA**

UN1230, Methanol, 3, 6.1, F, T, PGII.

**DEA Chemical Trafficking Act:**.. No



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### 16 – OTHER INFORMATION

#### HMIS\*

HEALTH		2
FLAMMABILITY		3
REACTIVITY		0
PERSONAL PROTECTION		H

**\*HMIS®HAZARD INDEX: 0=Minimal Hazard, 1=Slight Hazard, 2=Moderate Hazard, 3=Serious Hazard, 4=Severe Hazard.**

HMIS® rating involves data interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this SDS and product label must be considered.

ND = No Data, NA = Not Applicable/Not Available, ≤ = Less than or equal to, ≥ = Greater than or equal to

**REVISION STATEMENT:** Changes have been made throughout this Safety Data Sheet (SDS). Please read the entire document. Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and The Globally Harmonized System of Classification and Labeling of Chemicals (GHS) by the Company Health and Risk Assessment Unit.

#### DISCLAIMER:

Although the information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed to be correct as of the date hereof, the Company makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving this Safety Data Sheet (SDS) will make their own determination as to its suitability for their intended purposes prior to use. Since the product is within the exclusive control of the user, it is the user's obligation to determine the conditions of safe use of this product. Such conditions should comply with all Federal and State Regulations concerning the Product. It must be recognized that the physical and chemical properties of any product may not be fully understood and that new, possibly hazardous products may arise from reactions between chemicals. The information given in this data sheet is based on our present knowledge and shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. **NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS.**

\*\*\*This is the last page of this SDS\*\*\*