# **SAFETY DATA SHEETS**

# This SDS packet was issued with item: 078392095

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

078391707 078927001

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

078391780



#### **1 – PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT NAME:	. ISOPROPYL ALCOHOL 99%
CHEMICAL NAME/	
CLASS/SYNONYMS:	Isopropanol; Isopropyl Alcohol; 2-Propanol; sec-propyl alcohol;
	dimethylcarbinol; Rubbing alcohol; IPA 99%
PRODUCT NUMBER:	. ISOPROPYL ALCOHOL 99%
UN/NA NUMBER:	. 1219
CHEMICAL FAMILY:	. Alcohol
CAS NUMBER:	. 67-63-0
FORMULA:	C <sub>3</sub> H <sub>8</sub> O
COMPANY	
COMPANY:	. JMN Specialties, Inc.
COMPANY:	<b>. JMN Specialties, Inc.</b> 1100 Victory Drive – Westwego, Louisiana USA 70094
COMPANY:	•
COMPANY:	1100 Victory Drive – Westwego, Louisiana USA 70094
	1100 Victory Drive – Westwego, Louisiana USA 70094 Phone (504) 341-3749, Fax (504) 341-5868
	1100 Victory Drive – Westwego, Louisiana USA 70094 Phone (504) 341-3749, Fax (504) 341-5868 www.jmnspecialties.com
	1100 Victory Drive – Westwego, Louisiana USA 70094 Phone (504) 341-3749, Fax (504) 341-5868 <u>www.jmnspecialties.com</u> . CALL CHEMTEL: Toll Free US & Canada: (800) 255-3924, Outside USA +01-813-248-0585. Contract #: MIS0002833.

#### 2 – HAZARDS IDENTIFICATION

#### **GHS HAZARD CLASSIFICATION:**

**Pictograms:** 

#### WARNING LABEL ITEMS INCLUDING PRECAUTIONARY STATEMENTS:



SIGNAL WORD:..... DANGER!

#### GHS HAZARD AND PRECAUTIONARY STATEMENTS:

H303 H313 H333: May be harmful if swallowed, in contact with skin or if inhaled H305: May be harmful if swallowed and enters airways

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.

PAGE 1 of 10



P501: Dispose of contents/container: 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.

#### TOTAL VOC's: 6.20 pour

6.20 pounds per gallon

#### **3 – COMPOSITION / INFORMATION ON INGREDIENTS**

HAZARDOUS INGREDIENT

Isopropyl Alcohol

**PERCENT** 100

CAS NUMBER 67-64-1

#### 4 – FIRST-AID MEASURES

	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. 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
	<ul> <li>occurs, obtain medical attention.</li> <li>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.</li> <li>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.</li> </ul>

PAGE 2 of 10



#### **5 – FIRE-FIGHTING MEASURES**

GENERAL FIRE HAZARDS:	Flammable liquid and vapor Secondary alcohols are readily
	autooxidized in contact with oxygen or air, forming ketones and
	hydrogen peroxide. It can become potentially explosive. It reacts with
	oxygen to form dangerously unstable peroxides which can concentrate
	and explode during distillation or evaporation. The presence of 2-
	butanone increases the reaction rate for peroxide formation. Explosive
	in the form of vapor when exposed to heat or flame. May form
	explosive mixtures with air. Isopropyl alcohol + phosgene forms
	isopropyl chloroformate and hydrogen chloride. In the presence of iron
	salts, thermal decompositon can occur, which in some cases can
	become explosive. A homogeneous mixture of concentrated peroxides
	+ isopropyl alcohol are capable of detonation by shock or heat. Barium
	perchlorate + isopropyl alcohol gives the highly explosive alkyl
	perchlorates. It forms explosive mixtures with trinitormethane and
	hydrogen peroxide. It produces a violent explosive reaction when
	heated with aluminum isopropoxide + crotonaldehyde. Mixtures of
	isopropyl alcohol + nitroform are explosive.
<b>AUTOIGNITION TEMP:</b>	750°F (399°C)
EXTINGUISHING MEDIA:	Determined by surrounding material. In case of fire, use water fog, dry
EXTINGUISIIING MEDIA.	chemical, CO <sub>2</sub> , or "alcohol" foam.
SPECIAL FIRE FIGHTING	chemical, $CO_2$ , of alcohol loam.
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
RCRA STATUS:	accordance with federal, state and local requirements. 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).

PAGE 3 of 10



#### 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.
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

PEL

400 ppm

**TLV-TWA** 

500 ppm

#### **OCCUPATIONAL EXPOSURE LIMITS**

HAZARDOUS INGREDIENT

Isopropyl Alcohol



**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

**DTECTIVE 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.

PAGE 4 of 10



**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.

#### 9 – PHYSICAL / CHEMICAL PROPERITES

BOILING POINT:	181°F (83°C)
FREEZING POINT:	-130°F (-90°C)
FLASHPOINT:	53°F (12°C)
UPPER FLAME LIMIT (%):	. 12.7%
LOWER FLAME LIMIT (%):	. 2.0%
VAPOR PRESSURE:	4.4 kPa @ 20°C
VAPOR DENSITY (AIR=1):	. 2.07
SPECIFIC GRAVITY:	. 0.79
pH:	NA
SOLUBILITY IN WATER:	Miscible
VOLATILITY	
INCLUDING WATER:	6.20 pounds per gallon
MOLECULAR WEIGHT:	$60.10 \text{ g mol}^{-1}$
<b>EVAPORATION RATE:</b>	ND
PHYSICAL STATE:	. Liquid
COLOR:	. Clear
ODOR:	Sharp, Alcohol

#### **10 – STABILITY and REACTIVITY**

 STABILITY:
 Stable

 HAZARDOUS DECOMP.:
 Will not occur

 INCOMPATIBILITY:
 Oxidizers or Oxidizing Materials.

 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:	<b>.</b> 200 ppm
OSHA PEL:	<b>.</b> 400 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).
MEDICAL CONDITION	
AGGRAVATED:	Existing dermatitis.



#### INFORMATION ON ACUTE TOXICOLOGICAL EFFECTS

#### ORAL

#### DERMAL

#### INHALATION

#### **REPEATED DOSE TOXICITY**

**Product:**......Product is a colorless, flammable liquid with typical alcohol odor. Chronic exposure is harmful by inhalation, when in contact with the skin and if it is swallowed. Liquid and vapor may be irritating to the eyes, skin and respiratory system. Product may cause central nervous system (CNS) depression characterized by nausea, dizziness, headache, lack of coordination, loss of consciousness and coma.

#### SKIN CORROSION / IRRITATION

#### **SERIOUS EYE DAMAGE / IRRITATION**

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

#### **RESPIRATORY OR SKIN SENSITIZATION**

#### MUTAGENCITY

Specified Substance(s)	Information as provided by manufacturer
Product:	No Data Available
IN VIVO	
Product:	No Data Available
IN VITRO	

Isopropyl Alcohol (Isopropanol)

No Data Available

#### CARCINOGENICITY

#### **REPODUCTIVE TOXICITY**

PAGE 6 of 10



#### SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE

**Product: GENERAL:** Solvent vapors may be irritating to skin and eyes. **INHALATION:** High concentrations of vapor may cause irritation of the respiratory tract, experienced as nasal discomfort and discharge, possibly with chest pain and coughing. **NOTICE:** Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling this product may be harmful or fatal. **EYES:** May cause mild to severe rritation experienced as discomfort or pain, excess blinking and tear production, possibly with marked 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:** May cause headache, dizziness, nausea, vomiting, diarrhea, coma, and death.

#### SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE

#### **ASPIRATION HAZARD**

#### **OTHER ADVERSE EFFECTS**

Product: ...... Negligible ecotoxicity

#### **12 – ECOLOGICAL INFORMATION**

#### ACUTE TOXICITY

#### FISH

**Product:** LC<sub>50</sub> (mg/L) 96 hours: Pimephales promelas: 9,640 mg/L

#### AQUATIC INVERTEBRATES

**Product:**  $EC_{50}$  24 hours: Water flea - 5,102 mg/L

#### CHRONIC TOXICITY

#### FISH

unlikely.

**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:**  $EC_{50}$  72 hours: Desmodesmus subspicatus > 2,000 mg/L

#### PERSISTENCE AND DEGRADABILITY

#### BIODEGRADATION

 Product:
 Relatively Biodegradable.

 BIOLOGICAL OXYGEN DEMAND

 Product:
 Biodegradation: 58% theoretical BOD, 5 days at 20° C - Relatively biogradeable.

 CHEMICAL OXYGEN DEMAND

 Product:
 2.00 g O<sub>2</sub>/g

 BOD / COD RATIO

 Product:
 No data available

 BIOACCUMULATIVE POTENTIAL

 Product:
 Accumulation in terrestrial organisms is unlikely. Bioaccumulation is

PAGE 7 of 10



#### MOBILITY IN SOIL

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

#### **OTHER ADVERSE EFFECTS**

#### **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
RCRA STATUS:	disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements. 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).

#### **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:	. 1219
PROPER SHIPPING NAME:	. Isopropyl Alcohol
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.
<b>REPORTABLE QUANTITY:</b>	None



#### **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: Isopropyl alcohol
<b>SECTION 304:</b>	Listed: Isopropyl alcohol
<b>SECTION 312:</b>	. Yes
SARA SECTION 313:	. Isopropyl alcohol: CAS # 67-63-0; 5000 Lbs. (2267.962 Kilograms).
	Threshold Planning Quantity (TPQ)
ACUTE:	. Yes
CHRONIC:	. No
FIRE:	. Yes
PRESSURE:	. No
REACTIVE:	. No
CLEAN WATER ACT:	. None

#### IMDG – International Marine Dangerous Goods Code

UN1219, Isopropanol, 3, F, PGII. Marine Pollutant: No Static Accumulator: Yes. EMS-No: F-E, S-D IATA UN1219, Isopropanol, 3, F, PGII.

DEA Chemical Trafficking Act:.. No

PAGE 9 of 10



#### **16 – OTHER INFORMATION**

HEALTH	2
FLAMMABILITY	3
REACTIVITY	0
PERSONAL PROTECTION	н

**\*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,  $\leq$  = Less than or equal to,  $\geq$  = 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\*\*\*

PAGE 10 of 10