

**1 – PRODUCT AND COMPANY IDENTIFICATION** 

PRODUCT NAME:	. MIL-PRF-16173E GRADE 4 CLASS II
CHEMICAL NAME/	
CLASS/SYNONYMS:	Rust Inhibitor, Rust Proof, Low VOC
PRODUCT NUMBER:	. MIL-PRF-16173E GRADE 4 CLASS II
UN/NA NUMBER:	. 1268
CHEMICAL FAMILY:	. Rust Preventative
CAS NUMBER:	• Not applicable for mixtures.
FORMULA:	Mixture
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
	<ul> <li>1100 Victory Drive – Westwego, Louisiana USA 70094</li> <li>Phone (504) 341-3749, Fax (504) 341-5868</li> <li>www.jmnspecialties.com</li> <li>CALL CHEMTEL: Toll Free US &amp; Canada: (800) 255-3924, Outside USA +01-813-248-0585.</li> </ul>

## 2 – HAZARDS IDENTIFICATION

## **GHS HAZARD CLASSIFICATION:**

## WARNING LABEL ITEMS INCLUDING PRECAUTIONARY STATEMENTS:

Pictograms:



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.



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:** 2.77 po

2.77 pounds per gallon

### 3 – COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT Mineral Spirits Calcium Sulfonate Blend **PERCENT** 40 - 50 50 - 60 CAS NUMBER 8052-41-3 Confidential

## 4 – FIRST-AID MEASURES

	<ul> <li>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.</li> <li>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.</li> </ul>
EYES:	• Flush eye with copious quantities of water. If persistent irritation occurs, obtain medical attention.
	<ul> <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>

## **5 – FIRE-FIGHTING MEASURES**

GENERAL FIRE HAZARDS: Flammable liquid and vapor		
<b>AUTOIGNITION TEMP:</b>	473°F (245°C) Mineral Spritis	
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:	<ul> <li>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.</li> <li>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.</li> <li>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).</li> </ul>
	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
HANDLING:	all warnings and precautions listed for the product. Drum must not be washed out or used for other purposes. 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.



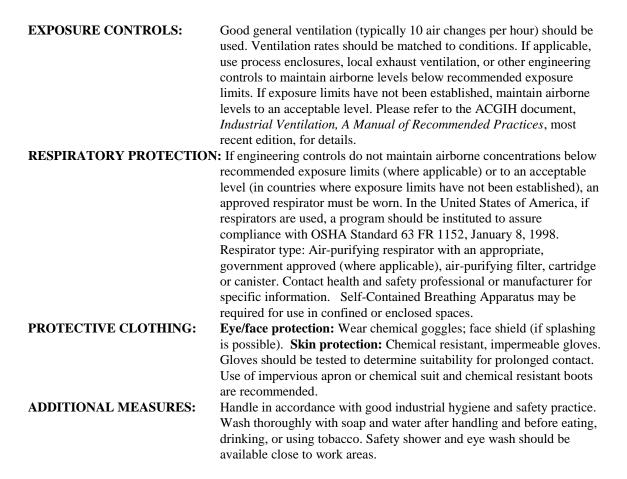
8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

## **OCCUPATIONAL EXPOSURE LIMITS**

HAZARDOUS INGREDIENT

Mineral Spirits Calcium Sulfonate Blend PEL 500 ppm None Established TLV-TWA 500 ppm None Established





### 9 - PHYSICAL / CHEMICAL PROPERITES

 BOILING POINT:
 302°F (150°C) Initial

 FREEZING POINT:
 32°F (0°C)

 FLASHPOINT:
 107.6°F (42°C), Typical

 UPPER FLAME LIMIT (%):
 7.0%

 LOWER FLAME LIMIT (%):
 1.0%

 VAPOR PRESSURE:
 > 1 mm of Hg (@ 20°C)

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VAPOR DENSITY (AIR=1):	ND
SPECIFIC GRAVITY:	0.87 - 0.89
pH:	NA
SOLUBILITY IN WATER:	Negligible
VOLATILITY	
INCLUDING WATER:	7.33 pounds per gallon
MOLECULAR WEIGHT:	No data available.
<b>EVAPORATION RATE:</b>	ND
PHYSICAL STATE:	Liquid
COLOR:	Amber to Dark Brown
ODOR:	Solvent

## 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:.. None Established for this Product

OSHA PEL:	500 ppm
LISTED CARCINOGEN:	This product IS NOT listed in the National Toxicology Program (NTP)
	Report on Carcinogens (latest edition) or has been found to be a
	potential carcinogen in the International Agency for Research on
	Cancer (IARC) Monographs (latest editions) or found to be a potential
	carcinogen by OSHA.
MEDICAL CONDITION	
AGGRAVATED:	Existing dermatitis.

### INFORMATION ON ACUTE TOXICOLOGICAL EFFECTS

### ORAL

**Product:** Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Ingestion of this product may result in central nervous system depression including headache, weakness, dizziness, loss of coordination and judgement and coma. Small amounts of this product, if aspirated into the lungs, may cause mild to severe pulmonary injury, possibly death. Ingestion of this product may cause diarrhoea & stomach discomfort – not a route of industrial exposure. **DERMAL** 

#### INHALATION



#### REPEATED DOSE TOXICITY

solvent 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

dermatitis.

#### SERIOUS EYE DAMAGE / IRRITATION

irritation and swelling of eyelids. Vapors may also produce eye irritation. Chronic exposure may result in cataracts and reduces visual reaction time.

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

components, or similar products.

#### MUTAGENCITY

### IN VITRO

Product: ...... No Data Available IN VIVO Product: ...... No Data Available Information as provided by manufacturer **Specified Substance(s)** Mineral Spirits

No Data Available

### CARCINOGENICITY

**REPODUCTIVE TOXICITY** 

classified as hazardous.

## 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

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

vomiting may cause chemical pneumonia.

#### **OTHER ADVERSE EFFECTS**

Product: ...... Negligible ecotoxicity



## **12 – ECOLOGICAL INFORMATION**

#### ACUTE TOXICITY

### FISH

#### AQUATIC INVERTEBRATES

#### CHRONIC TOXICITY

#### FISH

#### PERSISTENCE AND DEGRADABILITY

#### BIODEGRADATION

### **BIOLOGICAL OXYGEN DEMAND**

Product: ..... No data available

#### CHEMICAL OXYGEN DEMAND

Product: ..... No data available

#### **BOD / COD RATIO**

Product: ..... No data available

#### **BIOACCUMULATIVE POTENTIAL**

#### **MOBILITY IN SOIL**

#### **RESULTS OF PBT AND mPvB ASSESSMENT**

### OTHER ADVERSE EFFECTS

Product: ..... No data available



## **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.
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).

## **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:	1268
PROPER SHIPPING NAME:	Petroleum distillate, n.o.s., Contains (Mineral Spirits)
HAZARD CLASS:	3
PACKAGING GROUP :	III
LETTER:	F (Highly flammable)
<b>ENVIRONMENTAL HAZARD:</b>	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.
DEDODTADI E OLIANTITV.	Nama

**REPORTABLE QUANTITY: .....** 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:



SARA SECTION 313:	None
ACUTE:	Yes
CHRONIC:	No
FIRE:	Yes
PRESSURE:	No
REACTIVE:	No
CLEAN WATER ACT:	None

## IMDG – International Marine Dangerous Goods Code

UN1268, Petroleum Distillates, n.o.s (Mineral Spirits), 3, F, PGIII. Marine Pollutant: Yes Static Accumulator: Yes.

IATA

UN1268, Petroleum Distillates, n.o.s (Mineral Spirits), 3, F, PGIII.

### DEA Chemical Trafficking Act:.. No

16 – OTHER INFORMATION

HMIS*		
HEALTH		2
FLAMMABILITY		2
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\*\*\*