

### 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ..... EXTENDED LIFE ANTIFREEZE 50NF

CHEMICAL NAME/

CLASS/SYNONYMS: Nitrite Free Antifreeze

PRODUCT NUMBER: ..... EXTENDED LIFE ANTIFREEZE 50NF

UN/NA NUMBER: ...... None CHEMICAL FAMILY: ..... Glycol

**CAS NUMBER:** ...... Not applicable for mixtures.

FORMULA: ...... Proprietary

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

1100 Victory Drive - Westwego, Louisiana USA 70094

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

#### 2 – HAZARDS IDENTIFICATION

### **GHS HAZARD CLASSIFICATION:**

**Physical Hazards** 

**Health Hazards** 

**Skin Corrosion/Irritation:** ...... Catagory 2 - Causes skin irritation **Serious Eye Damage/Irritation:** Catagory 2A - Causes eye irritation

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

### WARNING LABEL ITEMS INCLUDING PRECAUTIONARY STATEMENTS:

**Pictograms:** 





SIGNAL WORD:..... WARNING!

### GHS HAZARD AND PRECAUTIONARY STATEMENTS:

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

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.



TOTAL VOC's:

### **Safety Data Sheet** (EXTENDED LIFE ANTIFREEZE 50NF)

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.

### 3 - COMPOSITION / INFORMATION ON INGREDIENTS

50%

HAZARDOUS INGREDIENT	PERCENT	CAS NUMBER
Ethylene Glycol	49.5 - 50.5	107-21-1
Inhibitor Package (Nitrite Free)	2 - 5	Confidential
Deionized Water	45 - 48	7732-18-5

#### 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.

occurs, obtain medical attention.

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: ...... Treat symptomatically. Following ingestion admission to hospital

should be the first priority. Gastric lavage or emesis should be performed as soon as possible to minimise absorption and is recommended within four hours of ingestion. Gastric lavage or emesis should not be attempted unless medical expertise or adequate facilities are available. Ethanol may be given intravenously as an antidote to prevent build-up of toxic metabolites and increase excretion of unchanged ethylene glycol by the kidneys. Uraemia, pulmonary oedema and metabolic acidosis can occur and dialysis, preferably haemodialysis, may be employed to treat these complications and to remove ethylene glycol and its metabolites from the blood. Ethylene glycol can cause central nervous system repression and metabolic acidosis. Consider removal by gastric lavage. Blockade of the diacid/hydroxyacid metabolites may follow competitive inhibition of alcohol dehydrogenase with ethanol or 4-methyl pyrazole. Consider

maintenance of a plasma ethanol level of 100 mg/dL to 150 mg/dL.

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### **5 – FIRE-FIGHTING MEASURES**

GENERAL FIRE HAZARDS: .... On burning will emit toxic fumes, including those of oxides of carbon .

Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion. Heating can cause expansion or decomposition of the material, which can lead to the containers exploding. If safe to do so, remove containers from the path of fire. Keep containers cool with

water spray.

**AUTOIGNITION TEMP:** 773°F (412°C) after water evaporation

**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 UNUSUAL FIRE AND

EXPLOSION HAZARDS:...... Containers may explode from internal pressure if confined to fire. Cool

with water spray.

### 6 - ACCIDENTAL RELEASE MEASURES

**SPILL PROCEDURES:**......Slippery when spilt. Begin clean up immediately. Wear protective

equipment to prevent skin and eye contact and breathing in vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal.

Wash area down with excess water.

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, it is not 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.

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 PEL TLV-TWA
Ethylene Glycol 50 ppm 40 ppm

Inhibitor Package (Nitrite Free)

None Established

None Established







### **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.

### 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.

### 9 - PHYSICAL / CHEMICAL PROPERITES

**BOILING POINT:** 225°F (107.2°C) **FREEZING POINT:** -34°F (-36.6°C) **FLASHPOINT:** 230°F (110°C)

**UPPER FLAME LIMIT** (%): ..... NA **LOWER FLAME LIMIT** (%): ... NA



VAPOR PRESSURE:.....ND

**VAPOR DENSITY (AIR=1):......** > 1 (Air = 1) **SPECIFIC GRAVITY: ......** 1.05 - 1.08 **pH: ......** 10.0 - 11.5 **SOLUBILITY IN WATER:.....** Complete

VOLATILITY

**INCLUDING WATER:** 8.92 pounds per gallon

MOLECULAR WEIGHT: ....... NA
EVAPORATION RATE: ...... < 1
PHYSICAL STATE: ..... Liquid
COLOR: ..... Orange
ODOR: ..... Bland

### 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

**IARC**: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. **ACGIH**: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. **NTP**: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. **OSHA**: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

THRESHOLD LIMIT VALUE:.. None Established for this Product

**OSHA PEL:....** 20 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**

### **DERMAL**



INHALATION		
Product:		
irritation of the respiratory tract, experienced as nasal discomfort and discharge, possibly with chest pain		
and coughing.		
REPEATED DOSE TOXICITY		
<b>Product:</b> Based on the available test data, product does not cause adverse genetic effects.		
SKIN CORROSION / IRRITATION		
<b>Product:</b> Repeated and prolonged exposure to concentrated material may cause		
dermatitis.		
SERIOUS EYE DAMAGE / IRRITATION		
Product:		
RESPIRATORY OR SKIN SENSITIZATION		
<b>Product:</b>		
components, or similar products.		
MUTAGENCITY		
IN VITRO		
Product:		
IN VIVO		
Product:No Data Available		
Specified Substance(s) Information as provided by manufacturer		
Monoethylene Glycol No Data Available		
CARCINOGENICITY		
<b>Product:</b> Based on available data the classification criteria are not met. Not		
classified as hazardous.		
<b>REPODUCTIVE TOXICITY Product:</b> Based on available data the classification criteria are not met. Not		
classified as hazardous.		
SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE		
<b>Product:</b> 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. <b>EYES:</b> Causes severe irritation experienced as discomfort		
or pain, excess blinking and tear production, with marked excess redness and swelling of the conjunctiva.		
<b>SKIN:</b> Brief contact may cause slight irritation with itching and local redness. Prolonged contact may cause more severe irritation, with discomfort or pain. <b>SWALLOWING:</b> Poison, toxic. May cause		
headache, dizziness, incorrdination, nausea, vomiting, diarrhea, and general weakness. MAY BE FATAL		
IF SWALLOWED.		
SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSURE		
Product:		
to organs or organ systems through prolonged or repeated exposure. Kidney: can cause kidney damage.		
to organs or organ systems through prolonged or repeated exposure. Kidney: can cause kidney damage. Safe handling of this material on a long-term basis should emphasize the avoidance of all effects from		
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.		
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		
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.		



### OTHER ADVERSE EFFECTS

**Product:** Acute Oral Toxicity: Harmful if swallowed. LD50 >300 - <=2000 mg/kg. There is a marked difference in acute oral toxicity between rodents and man, man being more susceptible than rodents. The estimated fatal dose for man is 100 millilitres (1/2 cup). This material has also been shown to be toxic and potentially lethal by ingestion to cats and dogs. Acute Dermal Toxicity: Expected to be of low toxicity: LD50 >5000 mg/kg.

12 - ECOLOGICAL INFORMATION		
ACUTE TOXICITY		
FISH		
<b>Product:</b> >10,000 mg/L (marine water); 8050 mg/L (fresh water). For Ethylene		
Glycol		
AQUATIC INVERTEBRATES  Product: Daphnia magna, practically non toxic: LL/EL/IL50 > 100 mg/l. (based on similar		
products / components)		
products / components)		
CHRONIC TOXICITY		
FISH		
<b>Product:</b>		
AQUATIC INVERTEBRATES		
Product:		
Product:		
products / components)		
PERSISTENCE AND DEGRADABILITY		
BIODEGRADATION		
Product: Biodegradability under aerobic static laboratory conditions is high.  BIOLOGICAL OXYGEN DEMAND		
<b>Product:</b>		
CHEMICAL OXYGEN DEMAND		
<b>Product:</b> COD= $1.29 \text{ g O}_2/\text{g (for } 100\% \text{ Ethylene Glycol)}$		
BOD / COD RATIO		
Product:		
BIOACCUMULATIVE POTENTIAL		
Product:		
Product: Expected to partition to water.		
RESULTS OF PBT AND mPvB ASSESSMENT		
Product:		
fulfilling vPvB (very persistent, very bioaccumulative) criteria.		
OTHER ADVERSE EFFECTS		
<b>Product:</b>		
photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from		
this product.		



### 13 - DISPOSAL CONSIDERATIONS

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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: ...... None

**PROPER SHIPPING NAME:** Non-Regulated

HAZARD CLASS:..... None PACKAGING GROUP :..... None LETTER:..... None

**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: ..... 10,000 pounds

### 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:..... None **SECTION 304:.....** None **SECTION 312:.....** None



 SARA SECTION 313:
 Yes

 ACUTE:
 Yes (Eyes)

 CHRONIC:
 No

 FIRE:
 No

 PRESSURE:
 No

 REACTIVE:
 No

 CLEAN WATER ACT:
 None

### IMDG - International Marine Dangerous Goods Code

Class Non Regulated - Possible Shipping Description(s): Non Regulated

**IATA** 

Class Non Regulated - Possible Shipping Description(s): Non Regulated

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

#### **16 – OTHER INFORMATION**

HMIS*		
HEALTH	1	
FLAMMABILITY	0	
REACTIVITY	0	
PERSONAL PROTECTION	ON C	

\*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, 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\*\*\*