

### 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ...... AMS 1424 TYPE 1 DEICING FLUID

CHEMICAL NAME/

CLASS/SYNONYMS: None

PRODUCT NUMBER: ..... AMS 1424 TYPE 1 DEICING FLUID

UN/NA NUMBER: ...... None

CHEMICAL FAMILY: ...... Aircraft Deicing / Anti-icing Fluid

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

FORMULA: ...... Proprietary

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

1100 Victory Drive - Westwego, Louisiana USA 70094

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

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USA +01-813-248-0585.

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

#### 2 – HAZARDS IDENTIFICATION

### **GHS HAZARD CLASSIFICATION:**

**Physical Hazards** 

**Health Hazards** 

# 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.



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: None

#### 3 - COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	PERCENT	CAS NUMBER
Propylene Glycol	88	57-55-6
Water	11 - 13	7732-18-5
Proprietary Ingredients	1 - 2	Confidential

#### 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.

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.

#### **5 – FIRE-FIGHTING MEASURES**

**GENERAL FIRE HAZARDS: ....** Water based blend - Non Flammable **AUTOIGNITION TEMP:** >752°F (>400°C) (for Propylene Glycol)

**EXTINGUISHING MEDIA:** Determined by surrounding material. In case of fire, use water fog, dry

chemical, CO2, 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.

### 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, 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

Propylene Glycol None Established None Established
Water None Established None Established
Proprietary Ingredients 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:** 257°F (125°C) **FREEZING POINT:** <-55°F (<-48°C) **FLASHPOINT:** Non-flammable material

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

**VAPOR PRESSURE:.....** 0.08 mm Hg

VAPOR DENSITY (AIR=1):..... ND

**VOLATILITY** 

INCLUDING WATER: 8.66 ppg
MOLECULAR WEIGHT: ......... NA

**EVAPORATION RATE:.....** Similar to Water

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:..... None Established for this Product

**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

ORAI

DERMAL

**Product:** Skin contact may aggravate existing dermatitis.

INHALATION

**Product:** Expected to be of relatively low acute toxicity, but may be harmful if inhaled.

REPEATED DOSE TOXICITY

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

SKIN CORROSION / IRRITATION

SERIOUS EYE DAMAGE / IRRITATION

**Product:.....** May cause mild to severe eye irritation

RESPIRATORY OR SKIN SENSITIZATION

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



# MUTAGENCITY

IN VITRO	
Product:	No Data Available
IN VIVO	N. D. (A. 2111
Product:	
Specified Substance(s)	Information as provided by manufacturer
Propylene glycol	No Data Available
CARCINOGENICITY	
	Based on available data the classification criteria are not met. Not
classified as hazardous.	
REPODUCTIVE TOXICITY	D
classified as hazardous.	Based on available data the classification criteria are not met. Not
SPECIFIC TARGET ORGAN TO	OVICITY SINCLE EXPOSIDE
	uid or vapors may be irritating to skin and eyes. <b>INHALATION:</b> High
discharge, possibly with chest pain a may occur. EYES: May cause mile and tear production, possibly with may cause slight irritation with itchin may cause more severe irritation, wi dizziness, in-coordination, nausea, v SPECIFIC TARGET ORGAN TO Product: been determined. Safe handling of the effects from repetitive acute exposur conditions.  ASPIRATION HAZARD	
12	2 – ECOLOGICAL INFORMATION
12	= LCOLOGICAL IN OKMATION
ACUTE TOXICITY	
FISH	
Product:	96 hour LC 50: 40,613 mg/l. Fish, species: Oncorhynchus mykiss.
AQUATIC INVERTEBRATES	
Product:	48 hour EC50: 18,800 mg/l. Daphnia, species: Mysidopsis bahia.
CHRONIC TOXICITY	
FISH	NOFGAIOFI . 100 . // / 1 . ! !!
	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 PLAN	
	72 hour EC50 (OECD 201): 24,200 mg/l. Algae, species: Selenastrum
capricornutum.	



#### PERSISTENCE AND DEGRADABILITY

BIODEGRADATION

**BIOLOGICAL OXYGEN DEMAND** 

**Product:** 0.65g O<sub>2</sub>/g deicer **CHEMICAL OXYGEN DEMAND Product:** 1.57g O<sub>2</sub>/g deicer

BOD / COD RATIO

**Product:.....** 5 day 0.40

**BIOACCUMULATIVE POTENTIAL** 

**Product:** Potential to bioaccumate is low.

**MOBILITY IN SOIL** 

**Product:** ..... Expected to partition to water.

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

### 13 - DISPOSAL CONSIDERATIONS

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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

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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

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: ..... 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:

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:

None

ACUTE:

Yes (Eyes)

CHRONIC:

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 B	

\*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. 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\*\*\*