

### 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ......UREA SULFATE 28-0-0-9(S)

CHEMICAL NAME/

CLASS/SYNONYMS:.....Fertilizer

PRODUCT NUMBER:.....UREA SULFATE 28-0-0-9(S)

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

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

www.jmnspecialties.com

EMERGENCY PHONE: ......CALL CHEMTEL: Toll Free US & Canada: (800) 255-3924, Outside

USA +01-813-248-0585.

DATE PREPARED: .....December 15, 2022

### 2 - HAZARDS IDENTIFICATION

### GHS HAZARD CLASSIFICATION:

**Physical Hazards** 

**Health Hazards** 

Acute Toxicity:.....Category 5 - Relatively low acute toxicity but which under

certain circumstances may pose a hazard to vulnerable

populations

**Skin Corrosion/Irritation:.....**Category 3 - Mild Skin Irritation

Eye Damage/Irritation: .......Catagory 2A - Causes eye irritation

**Aspiration Hazard:.....**Catagory 2 - May be harmful if swallowed and enters airways.

Carcinogen: ................No Hazard Statement established for this Product

**Specific Target Organ** 

**Toxicity Single Exposure......**Category 3: Respiratory tract irritation (sore throat, cough).

**Specific Target Organ** 

**Toxicity Repeated Exposure**. The effects of long-term, low-level exposures to this product

have not been determined.

**Hazardous to the Environment** 

Aquatic (Acute)......No Data Available

Aquatic (Chronic)......No Data Available

See Section 11 for additional Toxicological information



### **EMERGENCY OVERVIEW:**

**Pictograms:** 



Signal Word (GHS-US): .....WARNING!

**Hazard Statements:** 

Physical Hazards (GHS-US):

No Hazard Statement established for this Product

### **Health Hazards (GHS-US):**

H303 H305 H316 H320 H333: May be harmful if swallowed. May be harmful if swallowed and enters airways. Causes mild skin irritation. Causes eye irritation. May be harmful if inhaled.

### **Environmental Hazards (GHS-US):**

No Hazard Statement established for this Product.

### **Precautionary Statements (GHS-US):**

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+P210+233+270+280+281: Do not handle until all safety precautions have been read and understood. Keep away from open flames/hot surfaces - No smoking.Keep container tightly closed. 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. P264: Wash thoroughly after handling.

P233+P403+P405: Keep container tightly closed. Store in a well ventilated place. Store locked up.

### **Response Statements (GHS-US):**

P301+P310+P330+P331: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting. P303+P310+P361+P353: IF ON SKIN (or hair): Gently wash with plenty of soap and water. Remove / Take off immediately all contaminated clothing. P332+P313: If skin irritation occurs: Get medical advice / attention. P304+P340+P312: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. P305+P351+P338+337+P313: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists get medical advice/attention. P362+P363 Take off contaminated clothing. Wash contaminated clothing before reuse.

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:.....None



### 3 - COMPOSITION / INFORMATION ON INGREDIENTS

### **HAZARDOUS INGREDIENT**

PERCENT\*

**CAS NUMBER** 

Urea sulfate

50 - 75

21351-39-3

### 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.

### 5 - FIRE-FIGHTING MEASURES

**GENERAL FIRE HAZARDS: ......** Water based blend - Non Flammable

**AUTOIGNITION TEMP:.....** None - Water based material

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

fog, dry chemical, CO<sub>2</sub>, or "alcohol" foam. Firefighting should be attempted only by those who are adequately trained and

equipped with proper protective equipment.

**SPECIAL FIRE FIGHTING** 

**PROCEDURES:.....** Spilled product on ground may be slippery.

<sup>\*</sup>Any concentration shown as a range is to protect confidentiality or is due to batch variation. When not listed, mixtures may contain water [CAS No. 7732-18-5] to 100%.



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** 

Urea sulfate

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. 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. ADDITONAL 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:.....> 212°F (100°C)** 

FREEZING POINT:..... Approximately 0°F (-17°C)

FLASHPOINT: Not applicable
UPPER FLAME LIMIT (%):......No Data Available
LOWER FLAME LIMIT (%):.....No Data Available
VAPOR PRESSURE: No data available

**VOLATILITY** 

**INCLUDING WATER:** ......11.90 - 12.0 pounds per gallon **MOLECULAR WEIGHT:** ......No data available (G/MOLE)

EVAPORATION RATE:.....ND
PHYSICAL STATE:....Liquid

COLOR: ......Clear to pale straw

ODOR: .....Bland

### 10 - STABILITY and REACTIVITY

STABILITY: .....Stable

HAZARDOUS DECOMP .: ......Will not occur

**INCOMPATIBILITY:** ......Incompatible with oxidizing agents, reducing agents, metals,

chlorides, hypochlorite, sulfides, and alkalies.

HAZARDOUS REACTIONS:........ Not expected to be Explosive, Self-Reactive, Self-Heating, or an

Organic Peroxide under US GHS Definition(s).

### 11 - TOXICOLOGICAL INFORMATION

THRESHOLD LIMIT VALUE:......None Established for this Product

OSHA PEL:.....No occupational exposure limits have been established at this

time.

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.



## **Safety Data Sheet** (UREA SULFATE 28-0-0-9(S)) INFORMATION ON ACUTE TOXICOLOGICAL EFFECTS

ORAL	
Product:Irritant to	o mucous membranes, esophagus and stomach.
Abdominal pain, nausea, vomiting, gener	al gastro-intestinal upset can be expected.
DERMAL	
Product:Consider	ed to be practically non-toxic based on single contact
testing with little immedate effect. Skin	contact may aggravate existing dermatitis.
INHALATION	
harmful if inhaled. Excessive inhalation o	I to be of relatively low acute toxicity, but may be f mists may cause upper respiratory tract irritation, ning. Severe overexposure may cause pulmonary
REPEATED DOSE TOXICITY	
Product:Product	is a colorless to pale straw liquid wiht a bland odor.
·	alation, when in contact with the skin and if it is ating to the eyes, skin and respiratory system.
	d and prolonged exposure to concentrated material
may cause dermatitis.	a and protonged exposure to concentrated material
SERIOUS EYE DAMAGE / IRRITATION	
	duct may cause a burning sensation with temporary
irritation and swelling of eyelids. Vapors	•
RESPIRATORY OR SKIN SENSITIZATION	
Product:Not expe	ected to be sensitizing based on tests of this product,
components, or similar products.	
MUTAGENCITY	
IN VITRO	
Product:No Data	Available
IN VIVO	A
Product:	
Specified Substance(s)	Information as provided by manufacturer
Urea Sulfate	Data has shown negative results for mutagenicity both in vitro and in vivo for this product and its separate ingredients. It is concluded that the available data are sufficient and indicate that this material has no significant genotoxicity.
CARCINOGENICITY	
Product:Based or	available data, the classification criteria are not met.
REPODUCTIVE TOXICITY	
Product:Based or	available data the classification criteria are not met.
Not classified as hazardous.	



### SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE

### SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSURE

### **ASPIRATION HAZARD**

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

### **OTHER ADVERSE EFFECTS**

**Product:** .......The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

### 12 - ECOLOGICAL INFORMATION

### **ACUTE TOXICITY**

**FISH** 

Product: ......No data available

**AQUATIC INVERTEBRATES** 

Product: .....No data available

**CHRONIC TOXICITY** 

FISH

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

**AQUATIC INVERTEBRATES** 

Product: ......No data available

**TOXICITY TO AQUATIC PLANTS** 

Product: ......No data available



### PERSISTENCE AND DEGRADABILITY

**BIODEGRADATION Product:** ......Readily Biodegradable. **BIOLOGICAL OXYGEN DEMAND** Product: ......No data available CHEMICAL OXYGEN DEMAND Product: ......No data available **BOD / COD RATIO** Product: ......No data available **BIOACCUMULATIVE POTENTIAL Product:** ......Accumulation in terrestrial organisms is unlikely. Bioaccumulation is unlikely. **MOBILITY IN SOIL Product:** .......In the soil, product follows natural cycle to provide plant nutrients. **RESULTS OF PBT AND mPvB ASSESSMENT** Product: ...............Not fulfilling PBT (persistent/bio accumulative/toxic) criteria. Not fulfilling vPvB (very persistent, very bio accumulative) criteria. **OTHER ADVERSE EFFECTS** 

Product: ......No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential or global warming potential) are expected from this product.

### 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:.....lf 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).



### 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. U.S. Surface Freight Classification: FERTILIZING

COMPOUNDS (MANUFACTURED FERTILIZERS), NOI, LIQUID

(NMFC 68140, SUB 6; CLASS 70).

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:.....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:
 None

 SECTION 304:
 None

 SECTION 312:
 None

 SARA SECTION 313:
 None

 ACUTE:
 Yes

 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

**Homeland Security Regulated** .. This product does not contain any reportable DHS chemicals.

California Proposition 65 Chemical / Mixture not Listed

**Component.....**This product does not contain any chemicals known to the State

of California to cause cancer, birth, or any other reproductive defects.

Cal Prop 65 NSRL.....No Significant Risk Level

**US State Right to Know (RTK)** 

Component......Chemical / Mixture not Listed

Massachusetts ......No
New Jersey .....No

Pennsylvania ......No
Illinois .....No

Rhode Island.....No

\*\*RTK Chemical(s) ......Chemical / Mixture not Listed

Canada NPRI ......Chemical / Mixture not Listed

DSL (Canadian Domestic Substances List) and CEPA (Canadian Environmental Protection Act): All ingredients in this product are listed on the DSL. Any impurities present in this product are exempt from listing.

AICS / NICNAS (Australian Inventory of Chemical Substances and National Industrial Chemicals Notification and Assessment Scheme): All ingredients in this product are listed on AICS or otherwise complies with NICNAS.

MITI (Japanese Handbook of Existing and New Chemical Substances): All ingredients in this product are listed in the Handbook or has been approved in Japan by new substance notification.

ECL (Korean Toxic Substances Control Act): All ingredients in this product are listed on the Korean inventory or otherwise complies with the Korean Toxic Substances Control Act.KE-04134 Philippines Inventory (PICCS): All ingredients in this product are listed on the Philippine Inventory or otherwise complies with PICCS.

Inventory of Existing Chemical Substances in China: All ingredients in this product are listed on the Inventory of Existing Chemical Substances in China (IECSC).



### 16 - OTHER INFORMATION

HEALTH	2
FLAMMABILITY	0
REACTIVITY	0

PERSONAL PROTECTION

HMIS\*

\*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.

В

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\*\*\*