

#### 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:..... OXALIC ACID DIHYDRATE

CHEMICAL NAME/

CLASS/SYNONYMS: ...... None

PRODUCT NUMBER: ..... OXALIC ACID DIHYDRATE

UN/NA NUMBER: ...... 3261

**FORMULA:** ......  $C_2H_2O_4 \cdot 2H_2O$ 

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

1100 Victory Drive - Westwego, Louisiana USA 70094

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

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

#### 2 – HAZARDS IDENTIFICATION

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

**Physical Hazards** 

**Health Hazards** 

Skin Corrosion/Irritation: ...... Catagory 1B - Causes severe skin burns and eye damage

**Serious Eye Damage/Irritation:** Catagory 1 - Causes severe eye damage **Aspiration Hazard:.....** Category 3 (respiratory tract irritation)

#### 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

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** 

Oxalic Acid Dihydrate

> 99

6153-56-6

#### 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

immediately to a hospital. Do not wait for symptoms to develop.

#### **5 – FIRE-FIGHTING MEASURES**

**GENERAL FIRE HAZARDS: ....** Oxalic Acid is a combustible solid below 215°F (101°C). Fire fighters should wear full protective clothing, including self-contained breathing equipment.



AUTOIGNITION TEMP:

No Data Available

**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:** ...... No action shall be taken involving any personal risk or without suitable

training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. Spilled product 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, 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).

#### 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** 

Oxalic Acid Dihydrate

 $1 \text{ mg/m}^3$ 

 $1 \text{ mg/m}^3$ 









**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

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

**FREEZING POINT:** ...... 216°F (101.5°C)

specific information.

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

**VAPOR PRESSURE:.....** < 0.01 hPa (< 0.01 mmHg) at 68°F (20°C)

VAPOR DENSITY (AIR=1):..... 4.4



**SPECIFIC GRAVITY: .....** 1.65

**SOLUBILITY IN WATER:.....** 126.1 g/l at 68°F (20°C)

VOLATILITY

**INCLUDING WATER: .....** 13.76

MOLECULAR WEIGHT: ...... 126.07 g/mol

EVAPORATION RATE:.....NA

PHYSICAL STATE: ..... Granular solid

COLOR: ...... White ODOR: ..... Bland

#### 10 - STABILITY and REACTIVITY

STABILITY: ..... Stable

HAZARDOUS DECOMP.:.... Will not occur

INCOMPATIBILITY: ...... Avoid direct contact with strong alkalines. Add slowly to water or

acids with dilution and agitation. Avoid extended contact with aluminum, tin, zinc, leather, and organic materials. Contact with metals such as aluminum, magnesium, tin, and zinc may cause formation of flammable hydrogen gas. Precautions should be taken including

monitoring the tank atmosphere for hazardous gases to ensure safety of

personnel before vessel entry.

**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:.. 1 mg/m°
OSHA PEL:..... 1 mg/m³

**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:** ...... Pre-existing medical conditions of the following organ(s) or organ

system(s) may be aggravated by exposure to this material: Respiratory

system. Eyes. Skin.

#### INFORMATION ON ACUTE TOXICOLOGICAL EFFECTS

#### **ORAL**



DERMAL
Product:
to severe irritation. Skin contact may aggravate existing dermatitis.
INHALATION
<b>Product:</b> Inhalation of dusts may cause irritation of the upper respiratory tract
with sore throat, coughing and shortness of breath. May cause severe irritation of the respiratory tract with
coughing, choking, pain and irritation of the mucous membranes.  REPEATED DOSE TOXICITY
Product:
SKIN CORROSION / IRRITATION
Product: Effects are dependent upon concentration and duration of exposure.
Dermatitis or effects similar to those for acute exposure may occur.
SERIOUS EYE DAMAGE / IRRITATION
<b>Product:</b>
swelling of tissue. The full extent of the injury may not be immediately apparent.
RESPIRATORY OR SKIN SENSITIZATION
Product:
components, or similar products.
MUTAGENCITY
IN VITRO
Product:
IN VIVO
Product:
Specified Substance(s) Information as provided by manufacturer
Oxalic Acid Dihydrate No Data Available
CARCINOGENICITY
CARCINOGENICITY  Product: This product is not classified as a carcinogen by NTP, IARC or OSHA
REPODUCTIVE TOXICITY
<b>Product:</b> Based on available data the classification criteria are not met. Not
classified as hazardous.
SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE
<b>Product: GENERAL:</b> Dusts or particles may be irritating to skin, eyes, or mucous membranes.
INHALATION: Inhalation of dusts or particles may cause irritation of the respiratory tract, experienced a
nasal discomfort and discharge, with chest pain and coughing. Headache, nausea, vomiting, dizziness, and
drowsiness may occur. <b>EYES:</b> May cause slight to severe irritation experienced as discomfort or pain,
excess tear production, with possible 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> May cause headache, dizziness, nausea, vomiting, diarrhea,
and general weakness.
SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSURE
<b>Product:</b> The effects of long-term, low-level exposures to this product have not
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
ADELKA LIUD DAZAKU
<b>Product</b> Droplets of the product aspirated into the lungs through ingestion or

vomiting may cause chemical pneumonia.



#### OTHER ADVERSE EFFECTS

**Product:** There is no information available at this time for this product. Studies have shown that bacteria and fungi have the ability to degrade ingredients in this product thereby decreasing their toxicity to fish. However, a spill may produce significant toxicity to aquatic organisms and ecosystems.

#### 12 - ECOLOGICAL INFORMATION

#### ACUTE TOXICITY

this component.

FISH
<b>Product:</b>
AQUATIC INVERTEBRATES
<b>Product:</b>
CHRONIC TOXICITY
FISH
<b>Product:</b>
AQUATIC INVERTEBRATES
<b>Product:</b>
TOXICITY TO AQUATIC PLANTS
<b>Product:</b> Acids cause decreased pH values in the water. A low pH value harms
aquatic organisms.
PERSISTENCE AND DEGRADABILITY
PERSISTENCE AND DEGRADABILITY
BIODEGRADATION
<b>Product:</b> This product is considered to be biodegradable.
BIOLOGICAL OXYGEN DEMAND
Product:
CHEMICAL OXYGEN DEMAND
Product:No data available
BOD / COD RATIO
Product: No data available
BIOACCUMULATIVE POTENTIAL
<b>Product:</b> Oxalic Acid does not bioaccumulate due to its high solubility in water.
It is considered slightly toxic to aquatic organisms unless there is a significant pH shift outside the range of
5-10; this change may be toxic to aquatic organisms.
MOBILITY IN SOIL
Product: Expected to partition to water. The pH effect of Oxalic Acid in water is
naturally reduced by dilution with water and by the natural alkalinity of a given water body.
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
41.1



#### 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.

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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: ...... 3261

PROPER SHIPPING NAME: ..... Corrosive solid, acidic, organic, n.o.s. (Oxalic acid dihydrate)

HAZARD CLASS:.....8 PACKAGING GROUP :..... III

ENVIRONMENTAL HAZARD: Oxalic Acid is not expected to bioaccumulate due to its high solubility

in water. It is considered slightly toxic to aquatic organisms unless there is a significant pH shift outside the range of 5 - 10, which may be toxic

to aquatic organisms.

REPORTABLE QUANTITY: ..... 220 Pounds, Oxalic Acid Dihydrate CAS# 6153-56-6



#### 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:	SECTION 312 THRESHOLD PLANNING QUANTITY (40 CFR		
	<b>370</b> ): 220 Pounds, Oxalic Acid Dihydrate CAS# 6153-56-6		
<b>SARA SECTION 313:</b>	SECTION 313 REPORTABLE INGREDIENTS (40 CFR 372):		
	This product contains 220 Pounds, Oxalic Acid Dihydrate CAS# 6153-		
	56-6 which is subject to the reporting requirements of Section 313,		
	Title III of the SARA (Superfund Amendments and Reauthorization		
	Act) of 1986.		
ACUTE:	Yes		
CHRONIC:	. No		
FIRE:	. No		
PRESSURE:	. No		
REACTIVE:	. No		
CLEAN WATER ACT:			

#### **IMDG – International Marine Dangerous Goods Code**

UN3261, Corrosive solid, acidic, organic, n.o.s. (Oxalic acid dihydrate), 8, PG III. EmS F-A, S-B. Marine Pollutant: No.

**IATA** 

UN3261, Corrosive solid, acidic, organic, n.o.s. (Oxalic acid dihydrate), 8, PG III.

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



#### 16 - OTHER INFORMATION

HMIS*		
HEALTH	2	
FLAMMABILITY	0	
REACTIVITY	0	
PERSONAL PROTECTION	ON H	

\*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\*\*\*