

1 – PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:	. SODIUM MOLYBDATE SOLUTION 35%
CHEMICAL NAME/	
CLASS/SYNONYMS:	. Molybdic Acid Disodium Salt, 35% Solution; Disodium Molybdate,
	35% Solution
PRODUCT NUMBER:	. SODIUM MOLYBDATE SOLUTION 35%
UN/NA NUMBER:	. None
CHEMICAL FAMILY:	. Soluble Molybdenum Compounds
CAS NUMBER:	. Not applicable for mixtures.
FORMULA:	NacMoO
	14214004
FORMULA.	
COMPANY:	
	JMN Specialties, Inc.
	. JMN Specialties, Inc. 1100 Victory Drive – Westwego, Louisiana USA 70094
COMPANY:	. JMN Specialties, Inc. 1100 Victory Drive – Westwego, Louisiana USA 70094 Phone (504) 341-3749, Fax (504) 341-5868
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2 – HAZARDS IDENTIFICATION

GHS HAZARD CLASSIFICATION:

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
Sodium Molybdate	35	Proprietary
Water	65	7732-18-5
4 – FIRST-A	ID MEASURES	
Treat symptoma immediately. Qi administering ox SWALLOWING (INGESTION): Give large amou anything by mou swallow. If von aspiration. Trea attention immed	n artificial resuscitation. K tically and supportively. S ualified medical personnel kygen. ints of fresh water or milk i ith if person is unconscious niting occurs, keep head bel t symptomatically and supp iately.	eep person warm and at rest. eek medical attention should consider mmediately. Do not give or otherwise unable to low hips to prevent portively. Seek medical
EYES: Flush eye with c	opious quantities of water.	If persistent irritation

5 – FIRE-FIGHTING MEASURES

NOTE TO PHYSICIAN: All treatments should be based on observed signs and symptoms of

occurred.

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.

distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have

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 ₂ , 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. 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. 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
HANDLING:	all warnings and precautions listed for the product residues (vapors, inquid); observe 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

Sodium Molybdate Water



PELNone EstablishedNone EstablishedN

TLV-TWA 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, <i>Industrial Ventilation, A Manual of Recommended Practices</i> , most recent edition, for details.
RESPIRATORY PROTECTION	N: 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:	212°F (100°C)
FREEZING POINT:	23°F (-5°C)
FLASHPOINT:	
UPPER FLAME LIMIT (%):	NA
LOWER FLAME LIMIT (%):	NA
VAPOR PRESSURE:	Negligible
VAPOR DENSITY (AIR=1):	> 1 (Air = 1)
SPECIFIC GRAVITY:	
pH:	8.5 - 10
SOLUBILITY IN WATER:	840g/L at 68°F (20°C)
VOLATILITY	C ()
INCLUDING WATER:	11.56 pound per gallon
MOLECULAR WEIGHT:	241.95
EVAPORATION RATE:	Similar to Water
PHYSICAL STATE:	Liquid
COLOR:	Clear
ODOR:	



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 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

ORAL

DERMAL

Product:......Prolonged or repeated skin contact may cause mild to severe irritation. 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: No Data Available

SKIN CORROSION / IRRITATION

SERIOUS EYE DAMAGE / IRRITATION

RESPIRATORY OR SKIN SENSITIZATION

Product: No Data Available



MUTAGENCITY

IN VITRO Product: No Data A	Available
IN VIVO	
Product: No Data A	Available
Specified Substance(s)	Information as provided by manufacturer
Sodium Molybdate	No Data Available

CARCINOGENICITY

REPODUCTIVE TOXICITY

SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE

Product: GENERAL: Liquid or 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. Headache, nausea, vomiting, dizziness, and drowsiness may occur. **EYES:** May cause mild to severe irritation 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, especially with concentrate, may cause more severe irritation, with discomfort or pain. **SWALLOWING:** May cause headache, dizziness, in-coordination, nausea, vomiting, diarrhea, and general weakness.

SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSURE

ASPIRATION HAZARD

OTHER ADVERSE EFFECTS

12 – ECOLOGICAL INFORMATION

ACUTE TOXICITY

FISH

CHRONIC TOXICITY

FISH

Product:.....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 PLANTS**

PERSISTENCE AND DEGRADABILITY

BIODEGRADATION

Product:......Biodegradability under aerobic static laboratory conditions is high (BOD20 or BOD28 / THOD greater than 80%).

BIOLOGICAL OXYGEN DEMAND

Product: No data available

CHEMICAL OXYGEN DEMAND

Product: No data available

BOD / COD RATIO

Product: No data available

BIOACCUMULATIVE POTENTIAL

Product: Potential to bioaccumate is low.

MOBILITY IN SOIL

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

RESULTS OF PBT AND mPvB ASSESSMENT

OTHER ADVERSE EFFECTS

Product: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, 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
RCRA STATUS:	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. 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).



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:
 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 (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 PROTECTI	ON D

***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