# **Safety Data Sheet**

Classified According to OSHA Hazard Communication Standard (HCS)

# **SECTION 1: Identification**

#### **1.1. Product Identifier**

Trade Name or Designation:

Ammonium Molybdate-Vanadate Solution for Phosphorus Determination

Product Number: 677

Other Identifying Product Numbers: 677-16, 677-32

1.2. Recommended Use and Restrictions on Use

General Laboratory Reagent

# 1.3. Details of the Supplier of the Safety Data Sheet

Company: Ricca Chemical Company Address: 448 West Fork Drive

Arlington, TX 76012 USA

**Telephone:** 888-467-4222

# **1.4. Emergency Telephone Number (24 hours)**

CHEMTREC (USA) CHEMTREC (International) 800-424-9300 1+ 703-527-3887

# **Safety Data Sheet**

# SECTION 2: Hazard(s) Identification

# 2.1. Classification of the Substance or Mixture

For the full text of the Hazard and Precautionary Statements listed below, see Section 16.

		Hazard	
Hazard Class	Category	Statements	Precautionary Statements:
Acute Toxicity - Inhalation	Category 1	H330	P260, P271, P285, P304+P340, P310, P320,
			P403+P233, P405, P501
Skin Corrosion / Irritation	Category 1	H314	P260, P264, P280, P301+P330+P331,
			P303+P361+P353, P363, P304+P340, P310,
			P321, P305+P351+P338, P405, P501
Eye Damage / Irritation	Category 1	H318	P280, P305+P351+P338, P310
Carcinogenicity	Category 2	H351	P201, P202, P280, P308+P313, P405, P501
Reproductive Toxicity	Category 2	H361	P201, P202, P280, P308+P313, P405, P501
Corrosive to Metals	Category 1	H290	P234, P390, P406
Hazardous to the Aquatic Environment (Acute)	Category 2	H401	P273, P501
Hazardous to the Aquatic Environment (Chronic)	Category 2	H411	P273, P391, P501

# 2.2. GHS Label Elements

**Pictograms:** 



# Signal Word: Danger

#### Hazard Statements:

Hazard Number	Hazard Statement
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child.
H401	Toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

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# **Safety Data Sheet**

#### **Precautionary Statements:**

Precautionary Number	Precautionary Statement
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P234	Keep only in original container.
P260	Do not breathe fumes, mist, vapors, or spray.
P264	Wash arms, hands and face thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves and eye protection.
P285	In case of inadequate ventilation wear respiratory protection.
P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and
	easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical attention.
P310	Immediately call a POISON CENTER or physician.
P320	Specific treatment is urgent (Wash areas of contact with water immediately).
P321	Specific treatment (Wash areas of contact with water immediately).
P363	Wash contaminated clothing before reuse.
P390	Absorb spillage to prevent material damage.
P391	Collect spillage.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P406	Store in corrosive resistant container with a resistant inner liner.
P501	Dispose of contents in accordance with local, state, federal and international regulations.

# 2.4. Hazards not Otherwise Classified or Covered by GHS

Data not available.

# Safety Data Sheet

# **SECTION 3: Composition / Information on Ingredients**

#### 3.1. Components of Substance or Mixture

Chemical Name	Formula	Molecular Weight	CAS Number	Weight%
Water	$H_2O$	18.01 g/mol	7732-18-5	78.28
Nitric Acid	HNO <sub>3</sub>	63.01 g/mol	7697-37-2	17.99
Ammonium Molybdate Tetrahydrate	(NH <sub>4</sub> ) <sub>6</sub> Mo <sub>7</sub> O <sub>24</sub> ·4H <sub>2</sub> O	1236.00 g/mol	12054-85-2	3.64
Ammonium Metavanadate	$NH_4VO_3$	116.97 g/mol	7803-55-6	< 0.1

# **SECTION 4: First-Aid Measures**

## 4.1. General First Aid Information

- **Eye Contact:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. May cause irritation, redness, pain, and tearing.
- Inhalation: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- Skin Contact: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. May cause irritation, redness and pain. Contact will discolor skin yellow-brown depending on exposure which will wear off after a period of time.
  - **Ingestion:** IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Do not induce vomiting. Give large quantity of water. Call a physician immediately.

## 4.2. Most Important Symptoms and Effects, Acute and Delayed

Causes severe skin burns and eye damage. Causes serious eye damage. Fatal if inhaled. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. Corrosive Liquid. May be fatal if swallowed. Avoid contact with skin, eyes, and clothing. Avoid breathing vapor. If swallowed, do not induce vomiting. Dilute with water and call a physician. Wash areas of contact with plenty of water. Potential symptoms of overexposure are irritation of the eyes, mucous membranes and skin, dental erosion, bronchitis, pneumonitis, delayed pulmonary edema. EYE CONTACT: May cause irritation, redness, pain, and tearing. SKIN CONTACT: May cause irritation, redness and pain. Contact will discolor skin yellow-brown depending on exposure which will wear off after a period of time.

## 4.3. Medical Attention or Special Treatment Needed

Immediately call a POISON CENTER or physician. Specific treatment is urgent (Wash areas of contact with water immediately). Specific treatment (Wash areas of contact with water immediately). Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops. Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen. Flush with plenty of water for at least 15 minutes. Call a physician if irritation develops. Call a physician if irritation develops. Do not induce vomiting. Give large quantity of water. Call a physician immediately.

# **SECTION 5: Fire-Fighting Measures**

## 5.1. Extinguishing Media

Does not burn. Use extinguishing media appropriate for surrounding fire.

#### Product Number: 677

# Safety Data Sheet

# 5.2. Specific Hazards Arising from the Substance or Mixture

Strong oxidizer. Contact of concentrated nitric acid with combustible materials may increase the hazard from fire and may lead to an explosion. Decomposes at fire temperature with release of oxides of nitrogen. Releases hydrogen gas on contact with many metals.

#### 5.3. Special Protective Equipment for Firefighters

Wear special protective clothing and positive pressure self-contained breathing apparatus. Butyl rubber, natural rubber, Neoprene, nitrile rubber, or polyvinyl alcohol barrier recommended.

## **SECTION 6: Accidental Release Measures**

#### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Wear protective gloves and eye protection. In case of inadequate ventilation wear respiratory protection.

#### 6.2. Cleanup and Containment Methods and Materials

Releases may require isolation or evacuation. Approach release from upwind. Stop or control the leak, if this can be done without undue risk. Use water spray to cool and disperse vapors and protect personnel. Avoid solid stream on pooled liquids. Prompt cleanup and removal are necessary. Control runoff and isolate discharged material for proper disposal.

# **SECTION 7: Handling and Storage**

## 7.1. Precautions for Safe Handling and Storage Conditions

Store in corrosive resistant container with a resistant inner liner. As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage. Keep out of direct sunlight and away from heat, water, and incompatible materials.

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# **Safety Data Sheet**

# **SECTION 8: Exposure Controls / Personal Protection**

## **8.1 Control Parameters**

Chemical Name	Limit Type	Country	Exposure Limit	Information Source
Ammonium Molybdate Tetrahy	drate (1: TWA	USA	"5 mg/m <sup>3</sup> TWA (as Mo)" As Molybdenum, soluble compounds [RR-00036-2]	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
Ammonium Molybdate Tetrahy	drate (1: TLV-TWA	USA	"0.5 mg/m <sup>3</sup> TWA (respirable particulate matter, as Mo)" As Molybdenum soluble compounds [RR-00036-2]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Ammonium Molybdate Tetrahy	drate (1: TLV-TWA	USA	"0.5 mg/m <sup>3</sup> TWA (respirable particulate matter, as Mo)" As Molybdenum soluble compounds [RR-00036-2]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Ammonium Molybdate Tetrahy	drate (1:TWA	USA	"5 mg/m <sup>3</sup> TWA (as Mo)" As Molybdenum, soluble compounds [RR-00036-2]	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
Ammonium Molybdate Tetrahy	drate (1: TLV-TWA	USA	0.5 mg/m <sup>3</sup> TWA (respirable particulate matter, as Mo)	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Ammonium Molybdate Tetrahy	drate (1: TWA	USA	5 mg/m <sup>3</sup> TWA (as Mo)	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
Nitric Acid (7697-37-2)	TWA	USA	2 ppm TWA; 5 mg/m <sup>3</sup> TWA	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
Nitric Acid (7697-37-2)	TLV-TWA	USA	2 ppm TWA	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Nitric Acid (7697-37-2)	TLV-STEL	USA	4 ppm STEL	ACGIH - Threshold Limit Values - Short Term Exposure Limits (TLV-STEL)

# 8.2. Exposure Controls

Engineering Controls:	Use only outdoors or in a well-ventilated area. A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limit.
Respiratory Protection:	In case of inadequate ventilation wear respiratory protection. A system of local or general exhaust is recommended to keep exposure levels below the Airborne Exposure Limits.
Skin Protection:	Wear protective gloves and eye protection. Chemical resistant gloves.
Eye Protection:	Wear protective gloves and eye protection. Safety glasses or goggles.



## 8.3. Personal Protective Equipment

Wear protective gloves and eye protection. In case of inadequate ventilation wear respiratory protection. A system of local or general exhaust is recommended to keep exposure levels below the Airborne Exposure Limits. Chemical resistant gloves. Safety glasses or goggles.

# **SECTION 9: Physical and Chemical Properties**

#### 9.1. Basic Physical and Chemical Properties

Appearance: Pale yellow liquid Physical State: Liquid Odor: Data not available. Odor Threshold: Data not available. pH: Data not available. Melting/Freezing Point: Approximately 0°C Initial Boiling Point/Range: Approximately 101°C - Approximately 101°C Flash Point: Data not available. Evaporation Rate: Data not available. Flammability: Data not available. Flammability/Explosive Limits: Data not available. Vapor Pressure: Data not available. Vapor Density: Data not available. Relative Density: 1.1 Solubility: Miscible Partition Coefficient: Data not available. Auto-Ignition Temperature: Data not available. Decomposition Temperature: Data not available. Viscosity: Data not available. Explosive Properties: Data not available. Oxidizing Properties: Data not available.

# **SECTION 10: Stability and Reactivity**

#### 10.1. Reactivity and Chemical Stability

Stable under normal conditions of use and storage.

#### **10.2. Possibility of Hazardous Reactions**

Data not available.



#### 10.3. Conditions to Avoid and Incompatible Materials

Keep only in original container. Strong bases, metallic powders, Carbides, Hydrogen Sulfide, Turpentine and combustible organics.

#### **10.4. Hazardous Decomposition Products**

Will not occur.

# **SECTION 11: Toxicological Information**

#### **11.1. Information on Toxicological Effects**

# Acute Toxicity - Oral Exposure:

Not applicable.

#### Acute Toxicity - Dermal Exposure:

Not applicable.

#### Acute Toxicity - Inhalation Exposure:

Fatal if inhaled. Do not breathe fumes, mist, vapors, or spray. Use only outdoors or in a well-ventilated area. In case of inadequate ventilation wear respiratory protection. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. Specific treatment is urgent (Wash areas of contact with water immediately). Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

#### Acute Toxicity - Other Information:

LDLo, Oral, Human: 430 mg/kg (Nitric Acid), details of toxic effects not reported other than lethal dose value. LDLo, Oral, Rat: 58100 ug/kg (Ammonium meta-Vanadate), behavioral and gastrointestinal effects noted.

#### Skin Corrosion and Irritation:

Causes severe skin burns and eye damage. Do not breathe fumes, mist, vapors, or spray. Wash arms, hands and face thoroughly after handling. Wear protective gloves and eye protection. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. Specific treatment (Wash areas of contact with water immediately). IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

#### Serious Eye Damage and Irritation:

Causes serious eye damage. Wear protective gloves and eye protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.

#### **Respiratory Sensitization:**

Not applicable.

#### Skin Sensitization:

Not applicable.

#### Germ Cell Mutagenicity:

Not applicable.

# **Safety Data Sheet**

#### Carcinogenicity:

Suspected of causing cancer. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves and eye protection. IF exposed or concerned: Get medical attention. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

#### **Reproductive Toxicity:**

Suspected of damaging fertility or the unborn child. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves and eye protection. IF exposed or concerned: Get medical attention. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

#### Specific Target Organ Toxicity from Single Exposure:

Not applicable.

#### Specific Target Organ Toxicity from Repeated Exposure:

Not applicable.

**Aspiration Hazard:** 

Not applicable.

#### **Additional Toxicology Information:**

Data not available.

#### **SECTION 12: Ecological Information**

#### 12.1. Ecotoxicity

Toxic to aquatic life. Avoid release to the environment. Dispose of contents in accordance with local, state, federal and international regulations. Toxic to aquatic life with long lasting effects. Avoid release to the environment. Collect spillage. Dispose of contents in accordance with local, state, federal and international regulations.

#### 12.2. Persistence and Degradability

Data not available.

#### 12.3. Bioaccumulative Potential

Data not available.

#### 12.4. Mobility in Soil

Data not available.

# 12.5. Other Adverse Ecological Effects

Data not available.

# **SECTION 13: Disposal Considerations**

# 13.1. Waste Treatment Methods

Data not available.



# **SECTION 14: Transportation Information**

# 14.1. Transportation by Land-Department of Transportation (DOT, United States of America)

**Sizes:** 1 L, 500 mL

UN Number: UN2031

Proper Shipping Name: Nitric Acid Solution

Hazard Class: 8

Packing Group:

Hazard Label(s):



# 14.2. Transportation by Air - International Air Transport Association (IATA)

Sizes:	1 L, 500 mL
UN Number:	UN2031
Proper Shipping Name:	Nitric Acid Solution
Hazard Class:	8
Packing Group:	II
Hazard Label(s):	



# 14.3 Transportation of Dangerous Goods (TDG, Canada)

Sizes:	1 L, 500 mL
UN Number:	UN2031
Proper Shipping Name:	NITRIC ACID SOLUTION
Hazard Class:	8
Packing Group:	II
Hazard Label(s):	CORROSIVE

# **Safety Data Sheet**

# **SECTION 15: Regulatory Information**

# 15.1. Occupational Safety and Health Administration (OSHA) Hazards

Not listed.

## 15.2. Superfund Amendments and Reauthorization Act (SARA) 302 Extremely Hazardous Substances

Nitric Acid (CAS # 7697-37-2): 1000 lb EPCRA RQ Nitric Acid (CAS # 7697-37-2): 1000 lb TPQ

# 15.3. Superfund Amendments and Reauthorization Act (SARA) 311/312 Hazardous Chemicals

Nitric Acid (CAS # 7697-37-2): 1000 lb final RQ; 454 kg final RQ Ammonium Metavanadate (CAS # 7803-55-6): 1000 lb final RQ; 454 kg final RQ

## 15.4. Superfund Amendments and Reauthorization Act (SARA) 313 Toxic Release Inventory (TRI)

Ammonium Molybdate Tetrahydrate (CAS # 12054-85-2): "1.0 % de minimis concentration (10% of total aqueous Ammonia is reportable under this listing)" As Aqueous ammonia from water dissociable ammonium salts and other sources [RR-47925-4]

Ammonium Molybdate Tetrahydrate (CAS # 12054-85-2): 1.0 % de minimis concentration (10% of total aqueous Ammonia is reportable under this listing)

Nitric Acid (CAS # 7697-37-2): 1.0 % de minimis concentration

Ammonium Metavanadate (CAS # 7803-55-6): "1.0 % de minimis concentration (listed under Chemical Category N770)" As Vanadium compounds [RR-00093-1]

Ammonium Metavanadate (CAS # 7803-55-6): 1.0 % de minimis concentration (listed under Chemical Category N770)

#### 15.5. Massachusetts Right-to-Know Substance List

Nitric Acid (CAS # 7697-37-2): Extraordinarily hazardous Ammonium Metavanadate (CAS # 7803-55-6): Present

## 15.6. Pennsylvania Right-to-Know Hazardous Substances

Nitric Acid (CAS # 7697-37-2): Environmental hazard Nitric Acid (CAS # 7697-37-2): Present Water (CAS # 7732-18-5): "Present" As Ethyl alcohol and water [RR-00802-6] Water (CAS # 7732-18-5): Present Ammonium Metavanadate (CAS # 7803-55-6): Environmental hazard Ammonium Metavanadate (CAS # 7803-55-6): Present



# 15.7. New Jersey Worker and Community Right-to-Know Components

Nitric Acid (CAS # 7697-37-2): corrosive; reactive - second degree

Nitric Acid (CAS # 7697-37-2): sn 1356

Nitric Acid (CAS # 7697-37-2): SN 1356 500 lb TPQ

Nitric Acid (CAS # 7697-37-2): sn 3722

Nitric Acid (CAS # 7697-37-2): SN 3722 500 lb TPQ (water dissociable, Category Code N511)

Ammonium Metavanadate (CAS # 7803-55-6): "SN 3492 500 lb TPQ (Category Code N770. Includes any unique chemical substance that contains the named metal as part of that chemical structure)" As Vanadium compounds [RR-00093-1]

Ammonium Metavanadate (CAS # 7803-55-6): "sn 3492" As Vanadium compounds [RR-00093-1]

Ammonium Metavanadate (CAS # 7803-55-6): sn 0104

Ammonium Metavanadate (CAS # 7803-55-6): sn 3492

Ammonium Metavanadate (CAS # 7803-55-6): SN 3492 500 lb TPQ (Category Code N770. Includes any unique chemical substance that contains the named metal as part of that chemical structure)

#### 15.8. California Proposition 65

Not listed.

# 15.9. Canada Domestic Substances List / Non-Domestic Substances List (DSL/NDSL)

Ammonium Molybdate Tetrahydrate (CAS # 12054-85-2): Present (DSL) Nitric Acid (CAS # 7697-37-2): Present (DSL) Water (CAS # 7732-18-5): Present (DSL) Ammonium Metavanadate (CAS # 7803-55-6): Present (DSL)

## 15.10. United States of America Toxic Substances Control Act (TSCA) List

All components of this solution are listed as active on the TSCA Inventory or are mixtures (hydrates) of active items listed on the TSCA Inventory.

Ammonium Molybdate Tetrahydrate (CAS # 12054-85-2): Present (ACTIVE) Nitric Acid (CAS # 7697-37-2): Present (ACTIVE) Water (CAS # 7732-18-5): Present (ACTIVE) Ammonium Metavanadate (CAS # 7803-55-6): Present (ACTIVE)

# 15.11. European Inventory of Existing Commercial Chemical Substances (EINECS), European List of Notified Chemical Substances (ELINCS), and No Longer Polymers (NLP)

Ammonium Molybdate Tetrahydrate (CAS # 12054-85-2): 234-722-4 Nitric Acid (CAS # 7697-37-2): 231-714-2 Water (CAS # 7732-18-5): 231-791-2 Ammonium Metavanadate (CAS # 7803-55-6): 232-261-3

# **Safety Data Sheet**

# **SECTION 16: Other Information**

## 16.1. Full Text of Hazard Statements and Precautionary Statements

May be corrosive to metals. Causes severe skin burns and eye damage. Fatal if inhaled. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. Toxic to aquatic life with long lasting effects.

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep only in original container. Do not breathe fumes, mist, vapors, or spray. Wash arms, hands and face thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves and eye protection. In case of inadequate ventilation wear respiratory protection.

IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical attention. Specific treatment is urgent (Wash areas of contact with water immediately). Wash contaminated clothing before reuse. Absorb spillage to prevent material damage. Collect spillage.

Store in a well-ventilated place. Keep container tightly closed. Store locked up. Store in corrosive resistant container with a resistant inner liner.

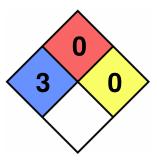
Dispose of contents in accordance with local, state, federal and international regulations.

## 16.2. Miscellaneous Hazard Classes

Canadian Carcinogenicity Hazard Class: Not Applicable. Physical Hazards Not Otherwise Classified (PHNOC): Not Applicable. Health Hazards Not Otherwise Classified (HHNOC): Not Applicable. Biohazardous Infectious Materials Hazard Class: Not Applicable. 2 Notional Eiro Protoction Application (NEDA) Pating

# 16.3. National Fire Protection Association (NFPA) Rating

Health:	3
Flammability:	0
Reactivity:	0
Special Hazard:	



## 16.4. Document Revision

Last Revision Date: 2023-09-11

# DISCLAIMER

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and RICCA CHEMICAL COMPANY assumes no legal responsibility or liability whatsoever resulting from its use.