

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations Revision Date: 07/11/2016 Date of Issue: 07/11/2016

Version: 1.0

## **SECTION 1: IDENTIFICATION**

# 1.1. Product Identifier

Product Form: Mixture

Product Name: NACHURS N-RAGE (23-4-2-0.5Mn)

1.2. Intended Use of the Product Use of the Substance/Mixture: Agriculture

## 1.3. Name, Address, and Telephone of the Responsible Party

#### Company

**Nachurs Alpine Solutions** 

421 Leader St. Marion, OH 43302 740-382-5701

## 1.4. Emergency Telephone Number

Emergency Number : CHEMTREC: 1-800-424-9300

## **SECTION 2: HAZARDS IDENTIFICATION**

## 2.1. Classification of the Substance or Mixture

#### **GHS-US Classification**

Not classified

#### 2.2. Label Elements

#### **GHS-US Labeling**

No labeling applicable

#### 2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

## 2.4. Unknown Acute Toxicity (GHS-US)

No data available

## **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

#### 3.1. Substance

Not applicable

## 3.2. Mixture

5.2. Wilkluie			
Name	Product Identifier	%	GHS-US classification
Water	(CAS No) 7732-18-5	Proprietary	Not classified
Urea	(CAS No) 57-13-6	Proprietary	Not classified
1,3,5-Triazin-2(1H)-one, tetrahydro-	(CAS No) 7098-14-8	Proprietary	Not classified
Diammonium phosphate	(CAS No) 7783-28-0	Proprietary	Aquatic Acute 3, H402
Dipotassium phosphate	(CAS No) 7758-11-4	Proprietary	Not classified
Monoammonium phosphate	(CAS No) 7722-76-1	Proprietary	Not classified
Phosphoric acid, potassium salt (1:1)	(CAS No) 7778-77-0	Proprietary	Not classified
Manganate(2-), [[N,N'-1,2-ethanediylbis[N- (carboxymethyl)glycinato]](4-)- N,N',O,O',ON,ON']-, dipotassium, (OC-6-21)-	(CAS No) 68015-77-0	Proprietary	Not classified
11,11 ,0,0 ,011,011 j-, aipotassium, (0C-6-21)-			

Full text of H-phrases: see section 16

The specific chemical identity and/or exact percentage of composition have been withheld as a trade secret [29 CFR 1910.1200]

## **SECTION 4: FIRST AID MEASURES**

## 4.1. Description of First-aid Measures

**First-aid Measures General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**First-aid Measures Inhalation:** When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

**First-aid Measures After Skin Contact:** Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists.

**First-aid Measures After Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

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First-aid Measures After Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

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

Symptoms/Injuries: Not expected to present a significant hazard under anticipated conditions of normal use.

**Symptoms/Injuries After Inhalation:** Prolonged exposure may cause irritation.

**Symptoms/Injuries After Skin Contact:** Prolonged exposure may cause skin irritation.

**Symptoms/Injuries After Eye Contact:** May cause slight irritation to eyes. **Symptoms/Injuries After Ingestion:** Ingestion may cause adverse effects.

Chronic Symptoms: None known.

#### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

## **SECTION 5: FIRE-FIGHTING MEASURES**

## 5.1. Extinguishing Media

**Suitable Extinguishing Media:** Water spray, fog, alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>), dry chemical powder. **Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

## 5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable but may burn at high temperatures.

Explosion Hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

## 5.3. Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire. **Firefighting Instructions:** Use water spray or fog for cooling exposed containers.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection. **Hazardous Combustion Products:** Carbon oxides (CO, CO<sub>2</sub>). When heated, urea releases ammonia and when heated to decomposition it emits toxic fumes of nitrogen oxides (NOx), ammonia, and cyanuric acid. Phosphorus oxides. Potassium oxides. Oxides of manganese. Irritating or toxic vapors.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

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

General Measures: Avoid prolonged contact with eyes, skin and clothing. Avoid breathing (vapor, mist, spray).

#### 6.1.1. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

## 6.1.2. For Emergency Personnel

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

## 6.2. Environmental Precautions

Prevent entry to sewers and public waters.

## 6.3. Methods and Materials for Containment and Cleaning Up

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. **Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

## 6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

## **SECTION 7: HANDLING AND STORAGE**

## 7.1. Precautions for Safe Handling

**Precautions for Safe Handling:** Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid prolonged contact with eyes, skin and clothing. Avoid breathing vapors, mist, spray.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

## 7.2. Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Comply with applicable regulations.

**Storage Conditions:** Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

**Incompatible Products:** Strong acids, strong bases, strong oxidizers.

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#### 7.3. Specific End Use(s)

Agriculture

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. **Control Parameters**

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

Urea (57-13-6)				
USA AI	HA	WEEL TWA (mg/m³)		10 mg/m³

8.2. **Exposure Controls** 

**Appropriate Engineering Controls** : Emergency eye wash fountains and safety showers should be available in the

> immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

**Personal Protective Equipment** : Gloves. Protective clothing. Protective goggles.





: Chemically resistant materials and fabrics.



**Materials for Protective Clothing** 

**Hand Protection** 

**Eye Protection** 

Skin and Body Protection

**Respiratory Protection** 

: Wear suitable protective clothing.

: Wear protective gloves.

: Chemical safety goggles.

: If exposure limits are exceeded or irritation is experienced, approved respiratory

protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory

protection.

Other Information : When using, do not eat, drink or smoke.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

9.1. **Information on Basic Physical and Chemical Properties** 

**Physical State** 

**Appearance** : Nearly colorless, cloudy Odor : No data available

Odor Threshold : No data available

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: No data available **Evaporation Rate Melting Point** : No data available **Freezing Point** : No data available **Boiling Point** : No data available Flash Point : No data available **Auto-ignition Temperature** : No data available **Decomposition Temperature** : No data available Flammability (solid, gas) : No data available Vapor Pressure : No data available Relative Vapor Density at 20°C : No data available **Relative Density** : 1.29 (Water = 0) Solubility : No data available Partition Coefficient: N-Octanol/Water : No data available Viscosity : No data available

9.2. Other Information No additional information available

## **SECTION 10: STABILITY AND REACTIVITY**

- 10.1. **Reactivity:** Hazardous reactions will not occur under normal conditions.
- 10.2. Chemical Stability: Stable under recommended handling and storage conditions (see section 7).
- 10.3. Possibility of Hazardous Reactions: Hazardous polymerization will not occur.
- 10.4. Conditions to Avoid: Direct sunlight, extremely high or low temperatures, and incompatible materials.

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- **10.5. Incompatible Materials:** Strong acids, strong bases, strong oxidizers.
- 10.6. Hazardous Decomposition Products: None known.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

## 11.1. Information on Toxicological Effects

Acute Toxicity: Not classified

Monoammonium phosphate (7722-76-1)		
LD50 Oral Rat	5750 mg/kg	
LD50 Dermal Rabbit	> 7940 mg/kg	
Diammonium phosphate (7783-28-0)		
LD50 Oral Rat	6500 mg/kg	
LD50 Dermal Rabbit	> 7950 mg/kg	
Dipotassium phosphate (7758-11-4)		
LD50 Oral Rat	> 2000 mg/kg	
Urea (57-13-6)		
LD50 Oral Rat	8471 mg/kg	

Skin Corrosion/Irritation: Not classified Serious

Eye Damage/Irritation: Not classified

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Carcinogenicity: Not classified
Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified Specific Target Organ Toxicity (Repeated Exposure): Not classified

Aspiration Hazard: Not classified

**Symptoms/Injuries After Inhalation:** Prolonged exposure may cause irritation. **Symptoms/Injuries After Skin Contact:** Prolonged exposure may cause skin irritation.

Symptoms/Injuries After Eye Contact: May cause slight irritation to eyes. Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: None known.

## SECTION 12: ECOLOGICAL INFORMATION

## 12.1. Toxicity

**Ecology - General** : Not classified.

Diammonium phosphate (7783-28-0)		
LC50 Fish 1 26.5 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)		
LC50 Fish 2 24.8 - 29.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through		
Urea (57-13-6)		
LC50 Fish 1 16200 - 18300 mg/l (Exposure time: 96 h - Species: Poecilia reticulata)		
EC50 Daphnia 1	3910 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])	

## 12.2. Persistence and Degradability

NACHURS N-RAGE (23-4-2-0.5Mn)	
Persistence and Degradability	Not established.

## 12.3. Bioaccumulative Potential

VACHURS N-RAGE (23-4-2-0.5Mn)		
<b>Bioaccumulative Potential</b>	Not established.	
Monoammonium phosphate (7722-76-1)		
BCF Fish 1 (no bioaccumulation expected)		
Diammonium phosphate (7783-28-0)		
BCF Fish 1 (no bioaccumulation expected)		
Urea (57-13-6)		
BCF Fish 1	<10	
Log Pow	-1.59 (at 25 °C)	

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- **12.4. Mobility in Soil** No additional information available
- 12.5. Other Adverse Effects

Other Information

: Avoid release to the environment. This product is water soluble and eventually biodegrades into elemental nitrogen. Excess nitrogen and nitrates in a body of water will contribute to eutrophication with visible effects such as toxic algae bloom.

## **SECTION 13: DISPOSAL CONSIDERATIONS**

## 13.1. Waste Treatment Methods

**Waste Disposal Recommendations:** Dispose of contents/container in accordance with local, regional, national, and international regulations.

Ecology - Waste Materials: Avoid release to the environment.

## **SECTION 14: TRANSPORT INFORMATION**

14.1. In Accordance with DOT Not regulated for transport
 14.2. In Accordance with IMDG Not regulated for transport
 14.3. In Accordance with IATA Not regulated for transport

## **SECTION 15: REGULATORY INFORMATION**

## 15.1. US Federal Regulations

Monoammonium	phosphate	(7722-76-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Diammonium phosphate (7783-28-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

## Phosphoric acid, potassium salt (1:1) (7778-77-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

## Dipotassium phosphate (7758-11-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

## Urea (57-13-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Water (7732-18-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Manganate(2-), [[N,N'-1,2-ethanediylbis[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON']-, dipotassium, (OC-6-21)- (68015-77-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 1,3,5-Triazin-2(1H)-one, tetrahydro- (7098-14-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

**15.2.** US State Regulations Neither this product nor its chemical components appear on any US state lists.

## SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Revision Date** : 07/11/2016

Other Information: This document has been prepared in accordance with the SDS

requirements of the OSHA Hazard Communication Standard 29 CFR

1910.1200

#### **GHS Full Text Phrases:**

Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
H402	Harmful to aquatic life

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

SDS US (GHS HazCom)

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