

Safety Data Sheet**R999****1. PRODUCT AND COMPANY IDENTIFICATION**

Product Name: #R999-PDQ Phosphonate Titrating Solution
(1drop = 1ppm – 10ppm O.P/25ml)

Product Use: A Mixture of Analytical Testing Reagent

Manufactured By:**24-Hour Emergency Response Number:**

Hawkins, Inc.
2381 Rosegate
Roseville, MN 55113
Phone: 800-328-5460

800-424-9300 CHEMTREC®

To the best of our knowledge, this Safety Data Sheet is prepared to comply with US OSHA 29 CFR1910.1200 and other governmental agencies both domestic and foreign. Hazard and precautionary statements are based on maximum listed concentrations of each hazardous ingredient. Unlisted ingredients are not "hazardous" per the OSHA Hazard Communication Standard (29 CFR 1910.1200) and/or other governmental agencies.

| DOT Label(s) | GHS Pictogram(s) | HMIS | Personal Protective Equipment(s) |
|-------------------------|------------------|------|----------------------------------|
| Non Regulated Materials | | | Safety Glasses Gloves |

2. HAZARDS IDENTIFICATION**GHS CLASSIFICATION/LABEL ELEMENTS**

| Signal Word | GHS Pictogram(s) | Hazard Statements | Precautionary Statements |
|-------------|------------------|--|---|
| "WARNING" | | H303-May be harmful if swallowed H316-Causes mild skin irritation. H320-Causes eye irritation. | P102-Keep out of reach of children. P233-Keep container tightly closed. P262-Do not get in eyes, on skin or on clothing. P264-Wash thoroughly after handling. P281-Use personal protective equipment as required. |

3. PRODUCT INGREDIENTS

| Hazardous Components | % by Wt. | CAS Number | Hazard Statements (Section 15) | GHS Hazard Pictogram(s) |
|--------------------------|----------|------------|---|-------------------------|
| Nitric Acid | 0-5 | 7697-37-2 | H270-May cause or intensify fire; oxidizer H302-Harmful if swallowed. H314-Causes severe skin burns and eye damage. H332-Harmful if inhaled. | |
| Non Hazardous Ingredient | 95-100 | | | |
| Total | 100 | | | |

4. FIRST AID MEASURES

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing difficult, give oxygen. Call a physician if any difficulties persist.

Eyes: Flush eyes with a large amount of water for 15 minutes. Seek medical attention immediately if any irritation persists. After first aid, get appropriate in-plant, paramedic or community medical support.

Skin: Wash affected areas thoroughly with soap and water for at least 15 minutes. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Seek medical attention if any irritation persists.

Ingestion: If person can swallow, give 2 glasses of water to drink. DO NOT INDUCE VOMITING! After first aid, seek appropriate in-plant, paramedic, or community medical support. Never give anything by mouth to an unconscious person.

After first aid, get appropriate in-plant, paramedic, or community medical support.

5. FIRE FIGHTING MEASURES

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|---|---|
| Flammability Classification: | Non Flammable |
| Suitable Extinguishing Media: | Water fog, Alcohol foam, Carbon Dioxide, Dry Chemical |
| Unusual Fire or Explosion Hazards: | None known other than material can splatter above 100°C/212°F. |
| Hazardous Combustion Products: | Unknown but carbon monoxide may be released on burning. |
| Fire-Fighting Instructions: | Do not release runoff from fire control methods to sewers or waterways. |
| Fire-Fighting Equipment: | Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode. |

6. ACCIDENTAL RELEASE MEASURES

| | |
|-----------------------------------|--|
| Personal Precautions: | Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation |
| Small Spills: | Absorb spill with paper towel or similar absorbent; or flush to sewer or ground with large amounts of water. |
| Large Spills: | For large spills, dike far ahead of liquid spill for later disposal. Do not release into sewers or waterways. Absorb spill with vermiculite, oil dry or similar non-reactant absorbent. Solidified product represents no environmental hazard. |
| Containment: | |
| Cleanup: | Accumulate the absorbed materials and dispose of according to federal, state and local regulations. |
| Environmental Precautions: | Follow applicable OSHA/CERCLA or any other regulations (29 CFR 1910.120) as well as any state or local regulations that may apply. |

7. HANDLING AND STORAGE

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|---------------------------------------|--|
| Precautions for safe handling: | Use the recommended safety controls and personal protective equipment as outlined. Fully review all data before handling of the material itself. Avoid contact with skin or eyes. Avoid breathing dust or mist. Keep from contact with clothing and other combustible materials. Observe good personal hygiene and housekeeping practices. Wash thoroughly after handling. |
| Conditions for safe Storage: | Do not store in direct sunlight. Store in a tightly closed container. Store in a cool dry, well ventilated area. Do not store this material near any strong acids, bases, oxidizers, flammables or any other type of reactive material. Do not expose the material to temperature extremes. |
| Regulatory Requirements: | Store materials according to all local, state and federal guidelines that are established for non-regulated chemical products. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with limit values that require monitoring at the workplace:

| Hazardous Components | CAS Number | OSHA PEL/TWA STEL | ACGIH TLV/TWA STEL | Other |
|----------------------|------------|-------------------|--------------------|-------|
| Nitric Acid | 7697-37-2 | 5mg/m3 | 5mg/m3 | |

Engineering Controls:

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|---|--|
| Ventilation: | Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source. |
| Respiratory Protection: | Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or non-routine operations (cleaning spills, reactor vessel, or storage tanks), wear an SCBA. <i>Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.</i> If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas. |
| Personal Protective Equipment (PPE): | Wear protective eyeglasses or chemical safety goggles, per OSHA eye-and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses. At a minimum wear safety glasses with side shields as well as chemically protective gloves and aprons to prevent prolonged or repeated skin contact. |
| Safety Stations: | Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area. |
| Contaminated Equipment: | Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment. |
| Comments: | Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics. |
| Work/Hygienic Practices | Consistent use of afore-mentioned personal protective equipment is essential in preventing injuries or irritation. |

9. PHYSICAL AND CHEMICAL PROPERTIES

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|----------------------------|----------------|----------------------------|----------------|----------------------------|----------------|
| Form: | Liquid | Appearance: | Clear liquid | Odor: | No odor |
| pH: | <4.00 | Vapor Pressure: | Same as water | Flammability: | Non-flammable |
| Specific Gravity: | 1.00+/- | Vapor Density: | Same as water | Flash Point: | NA |
| Water Solubility: | Complete | Evaporation Rate: | 1.00 | Auto Ignition Temp: | NA |
| Other Solubilities: | Not Determined | Melting Point: | NA | LEL: | Not Determined |
| % Volatile: | 95%+/- | Freeze Point: | Approx. 32°F | UEL: | Not Determined |
| Boiling Point: | 212°F +/- | Decomposition Temp: | Not Determined | | |

10. STABILITY AND REACTIVITY

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|--|--|
| Stability: | This product is stable at room temperature in closed containers under normal storage and handling conditions. However, avoid temperature extremes. |
| Conditions to Avoid: | Excessive temperature, contact with any type of reactive chemicals |
| Hazardous Polymerization: | Hazardous polymerization will not occur. |
| Chemical Incompatibilities: | Avoid contact with Strong Acids, Strong Alkalies, Oxidizers or any other type of reactive material. |
| Hazardous Decomposition Products: | There are no known hazardous decomposition products for this material unless the material is burned in which case undetermined evolution of toxic gases may occur. |

Safety Data Sheet**R999****11. TOXICOLOGICAL INFORMATION**

| Hazardous Components | CAS No.: | LC50 of Ingredient (Specify Species & Route) | LD50 Dermal of Ingredient (Specify Species) |
|---|-----------|---|--|
| Nitric Acid | 7697-37-2 | 0.8 ppm (Rat) | Corrosive |
| Primary Irritant Effects: | | | |
| Routes of Entry: Absorbed through skin, Dermal Contact, Eye Contact, Inhalation. | | | |
| Eye Effects: Irritation to eyes & possible burning if materials are not immediately rinsed from the eye. | | | |
| Acute Inhalation Effects: Might produce irritation to respiratory system. | | | |
| Skin Effects: Irritation to skin. | | | |
| Acute Oral/Ingestion Effects: Not tested for this blend. Harmful if swallowed. | | | |
| Chronic Effects on Humans: No specific studies have been conducted for this specific blend. | | | |
| Other Toxic Effects on Humans: No specific studies have been conducted for this specific blend. | | | |
| Special Remarks- Human Chronic Effects: No other information for chronic effects on humans. | | | |
| Carcinogenicity: IARC, NTP, and OSHA do not list this product or its components as a carcinogen. | | | |
| Mutagenicity: No mutagenic effects are known to be applicable for the formulation components of this product. | | | |
| Teratogenicity: No studies have been performed for this specific product blend. | | | |
| Target Organ Statement: No studies have been conducted for this specific product blend. | | | |

12. ECOLOGICAL INFORMATION

| Hazardous Components | CAS No.: | LC:50 | EC:50 |
|---|-------------------------------|---------------------------|------------------------|
| Nitric Acid | 7697-37-2 | 72mg/l 96hr Mosquito fish | No data at publication |
| Special Remarks-Products of biodegradation: | No information at publication | | |

13. WASTE DISPOSAL CONSIDERATIONS

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|-----------------------------------|--|--|--|
| Disposal Regulatory Requirements: | Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable federal, state and local regulations. | | |
| Container Cleaning and Disposal: | Triple rinse the empty containers with water before disposal to reconditioned or land fill or garbage. | | |

14. TRANSPORTATION INFORMATION

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|---|-------------------------|------------|----------------|-------------|------------------------|
| Proper Shipping Name: | NON REGULATED MATERIALS | | | | DOT Shipping Label(s): |
| Contains: | | | | | |
| Hazard Class: | Marine Pollutant: | UN Number: | Packing Group: | ERG Number: | |
| Non Hazardous | No | NA | NA | NA | |
| Special Shipping Notations: | None | | | | |
| Note: Transportation information provided is for reference only. Client is urged to consult CFR 49, Parts 100-177, IMDG, IATA, EU, United Nations, TDG and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping. | | | | | |

15. REGULATORY INFORMATION

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|---------------------------|--|
| Hazard Symbols: |  |
| Hazard Statements: | H303-May be harmful if swallowed H316-Causes mild skin irritation. H320-Causes eye Irritation |
| Precautionary Statements: | P102+P103-Keep out of reach of children. Read label before use. P233+P234-Keep container tightly closed. Keep only in original container. P262-Do not get in eyes, on skin, or on clothing. P264-Wash thoroughly after handling. P270-Do not eat, drink or smoke when using this product. P281-Use personal protective equipment as required. P301+330+331- If swallowed, rinse mouth. Do not induce vomiting. P304+P341- IF inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+P351+P338-IF in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present. |
| EPA Regulations: | |

| | |
|--|---|
| RCRA Hazardous Waste Number: | Product blend is not listed (40 CFR 261.33) |
| RCRA Hazardous Waste Classification (40 CFR 261.): | Product blend is not classified. |
| CERCLA Hazardous Substance (40 CFR 302.4): | Product blend is unlisted specific per RCRA, Sec. 3001; CWA, Sec. 311 (b) (4); CWA, Sec. 307 (a), |
| CAA, Sec. 112 CERCLA Reportable Quantity (RQ): | Contains: Nitric Acid 1,000 lb |
| SARA 313 Codes: This product is subject to the reporting requirements of section 313 of the Emergency Planning and Community Right to Know Act of 1986 and 40CFR372. | Contains: Nitric Acid |
| SARA Toxic Chemical (40CFR 372.65): | Not listed |

Safety Data Sheet**R999**

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|---|---|
| Sara 302/304 Extremely Hazardous Substance (40CFR 355) | Contains: Nitric Acid 1,000 lb |
| Sara 313 SARA EHS (Extremely Hazardous Substance) (40 CFR 355): | Contains: Nitric Acid |
| Threshold Planning Quantity (TPQ): | Contains: Nitric Acid 1,000 lb |
| OSHA Regulations: | |
| Air Contaminant (20 CFR 1910.1000, Table Z-1, Z-1-A): | Not listed. |
| OSHA Specifically Regulated Substance (29 CFR 1910.): | Not Listed |
| State Regulations: | As a product blend, the materials are generally not listed. Check with your local state regulatory board for more detailed information regarding the specific components of this product. |
| National Regulations: | All components of this product are listed in the U.S. Environmental Protection Agencies, Toxic Substance Control Act (TSCA) 8(b) Chemical Substance Inventory. |

16. OTHER INFORMATION

SDS Prepared/Reviewed By: P. Hall
 Date of Preparation: 3/2016

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

USER'S RESPONSIBILITY

The information and recommendations contained herein cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers. It is your responsibility to use this information to develop appropriate work practice guidelines and employee instructional programs for your operation.

DISCLAIMER OF LIABILITY

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this material. Information contained herein is believed to be true and accurate but all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state and local laws and regulations remains the responsibility of the user.

Safety Data Sheet**998****1. PRODUCT AND COMPANY IDENTIFICATION**

Product Name: #998-PDQ Indicator/Buffer Solution

Product Use: A Mixture of Analytical Testing Reagent

Manufactured By:

24-Hour Emergency Response Number:

**Hawkins, Inc.**2381 Rosegate
Roseville, MN 55113
Phone: 800-328-5460**800-424-9300 CHEMTREC®**

To the best of our knowledge, this Safety Data Sheet is prepared to comply with US OSHA 29 CFR1910.1200 and other governmental agencies both domestic and foreign. Hazard and precautionary statements are based on maximum listed concentrations of each hazardous ingredient. Unlisted ingredients are not "hazardous" per the OSHA Hazard Communication Standard (29 CFR 1910.1200) and/or other governmental agencies.

| DOT Label(s) | GHS Pictogram(s) | HMIS | Personal Protective Equipment(s) |
|-------------------------|---------------------|------|--|
| Non Regulated Materials | Irritant | | Safety Glasses Gloves |

2. HAZARDS IDENTIFICATION**GHS CLASSIFICATION/LABEL ELEMENTS**

| Signal Word | GHS Pictogram(s) | Hazard Statements | Precautionary Statements |
|------------------|---------------------|---|---|
| "WARNING" | Irritant | H303-May be harmful if swallowed. H316-Causes mild skin irritation. H320-Causes eye irritation. | P102-Keep out of reach of children. P233-Keep container tightly closed. P262-Do not get in eyes, on skin or on clothing. P264-Wash thoroughly after handling. P281-Use personal protective equipment as required. |

3. PRODUCT INGREDIENTS

| Hazardous Components | % by Wt. | CAS Number | Hazard Statements (Section 15) | GHS Hazard Pictogram(s) |
|---------------------------|------------|------------|--|-------------------------|
| Methanecarboxylic acid | 30-50 | 64-19-7 | H226-Flammable liquid and vapors. H314-Causes severe skin burns and eye damage. H332-Harmful if inhaled. H413-May cause long lasting harmful effects to aquatic life. | |
| Sodium Acetate Trihydrate | 20-50 | 6131-90-4 | H303-May be harmful if swallowed H316-Causes mild skin irritation. H320-Causes eye irritation. | |
| Non Hazardous Ingredient | 0-50 | | | |
| Total | 100 | | | |

4. FIRST AID MEASURES

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing difficult, give oxygen. Call a physician if any difficulties persist.

Eyes: Flush eyes with a large amount of water for 15 minutes. Seek medical attention immediately if any irritation persists. After first aid, get appropriate in-plant, paramedic or community medical support.

Skin: Wash affected areas thoroughly with soap and water for at least 15 minutes. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Seek medical attention if any irritation persists.

Ingestion: If person can swallow, give 2 glasses of water to drink. DO NOT INDUCE VOMITING! After first aid, seek appropriate in-plant, paramedic, or community medical support. Never give anything by mouth to an unconscious person.

After first aid, get appropriate in-plant, paramedic, or community medical support.

5. FIRE FIGHTING MEASURES

| | |
|------------------------------------|---|
| Flammability Classification: | Non Flammable |
| Suitable Extinguishing Media: | Water fog, Alcohol foam, Carbon Dioxide, Dry Chemical |
| Unusual Fire or Explosion Hazards: | None known other than material can splatter above 100°C/212°F. |
| Hazardous Combustion Products: | Unknown but carbon monoxide may be released on burning. |
| Fire-Fighting Instructions: | Do not release runoff from fire control methods to sewers or waterways. |
| Fire-Fighting Equipment: | Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode. |

6. ACCIDENTAL RELEASE MEASURES

| | |
|-----------------------------------|--|
| Personal Precautions: | Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation |
| Small Spills: | Absorb spill with paper towel or similar absorbent; or flush to sewer or ground with large amounts of water. |
| Large Spills: | For large spills, dike far ahead of liquid spill for later disposal. Do not release into sewers or waterways. Absorb spill with vermiculite, oil dry or similar non-reactant absorbent. Solidified product represents no environmental hazard. |
| Containment: | |
| Cleanup: | Accumulate the absorbed materials and dispose of according to federal, state and local regulations. |
| Environmental Precautions: | Follow applicable OSHA/CERCLA or any other regulations (29 CFR 1910.120) as well as any state or local regulations that may apply. |

7. HANDLING AND STORAGE

| | |
|---------------------------------------|--|
| Precautions for safe handling: | Use the recommended safety controls and personal protective equipment as outlined. Fully review all data before handling of the material itself. Avoid contact with skin or eyes. Avoid breathing dust or mist. Keep from contact with clothing and other combustible materials. Observe good personal hygiene and housekeeping practices. Wash thoroughly after handling. |
| Conditions for safe Storage: | Do not store in direct sunlight. Store in a tightly closed container. Store in a cool dry, well ventilated area. Do not store this material near any strong acids, bases, oxidizers, flammables or any other type of reactive material. Do not expose the material to temperature extremes. |
| Regulatory Requirements: | Store materials according to all local, state and federal guidelines that are established for non-regulated chemical products. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| Components with limit values that require monitoring at the workplace: | | | | |
|--|--|-------------------|--------------------|-------|
| Hazardous Components | CAS Number | OSHA PEL/TWA STEL | ACGIH TLV/TWA STEL | Other |
| Methanecarboxylic acid | 64-19-7 | 10ppm | 10ppm | |
| Sodium Acetate Trihydrate | 6131-90-4 | None Est. | None Est. | |
| Engineering Controls: | | | | |
| Ventilation: | Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source. | | | |
| Respiratory Protection: | Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or non-routine operations (cleaning spills, reactor vessel, or storage tanks), wear an SCBA. <i>Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.</i> If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas. | | | |
| Personal Protective Equipment (PPE): | Wear protective eyeglasses or chemical safety goggles, per OSHA eye-and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses. At a minimum wear safety glasses with side shields as well as chemically protective gloves and aprons to prevent prolonged or repeated skin contact. | | | |
| Safety Stations: | Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area. | | | |
| Contaminated Equipment: | Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment. | | | |
| Comments: | Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics. | | | |
| Work/Hygienic Practices | Consistent use of afore-mentioned personal protective equipment is essential in preventing injuries or irritation. | | | |

9. PHYSICAL AND CHEMICAL PROPERTIES

| | | | | | |
|----------------------------|----------------|----------------------------|-----------------|----------------------------|----------------|
| Form: | Liquid | Appearance: | Reddish | Odor: | Vinegar odor |
| pH: | <7.00 | Vapor Pressure: | Same as water | Flammability: | Non-flammable |
| Specific Gravity: | 1.10 +/- | Vapor Density: | Same as water | Flash Point: | NA |
| Water Solubility: | Complete | Evaporation Rate: | 1.00 | Auto Ignition Temp: | NA |
| Other Solubilities: | Not Determined | Melting Point: | NA | LEL: | Not Determined |
| % Volatile: | 75%+/- | Freeze Point: | Approx. 32°F+/- | UEL: | Not Determined |
| Boiling Point: | 212°F +/- | Decomposition Temp: | Not Determined | | |

10. STABILITY AND REACTIVITY

| | |
|------------------------------------|--|
| Stability: | This product is stable at room temperature in closed containers under normal storage and handling conditions. However, avoid temperature extremes. |
| Conditions to Avoid: | Excessive temperature, contact with any type of reactive chemicals |
| Hazardous Polymerization: | Hazardous polymerization will not occur. |
| Chemical Incompatibilities: | Avoid contact with Strong Acids, Strong Alkalies, Oxidizers or any other type of reactive material. |

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|--|--|--|--|
| Hazardous Decomposition Products: | There are no known hazardous decomposition products for this material unless the material is burned in which case undetermined evolution of toxic gases may occur. | | |
|--|--|--|--|

11. TOXICOLOGICAL INFORMATION

| Hazardous Components | CAS No.: | LD50 of Ingredient (Specify Species & Route) | LD50 Dermal of Ingredient (Specify Species) |
|--|-----------|---|--|
| Methanecarboxylic acid | 64-19-7 | 3310mg/kg Oral [Rat] | 1060mg/kg [Rabbit] |
| Sodium Acetate trihydrate | 6131-90-4 | 3530 mg/kg [Rat] | >10000 mg/kg [Rabbit] |
| Primary Irritant Effects: | | | |
| Routes of Entry: Absorbed through skin, Dermal Contact, Eye Contact, Inhalation. Eye Effects: Irritation to eyes & possible burning if materials are not immediately rinsed from the eye. Acute Inhalation Effects: Might produce irritation to respiratory system. Skin Effects: Irritation to skin. Acute Oral/Ingestion Effects: Not tested for this blend. Harmful if swallowed. Chronic Effects on Humans: No specific studies have been conducted for this specific blend. Other Toxic Effects on Humans: No specific studies have been conducted for this specific blend. Special Remarks- Human Chronic Effects: No other information for chronic effects on humans. Carcinogenicity: IARC, NTP, and OSHA do not list this product or its components as a carcinogen. Mutagenicity: No mutagenic effects are known to be applicable for the formulation components of this product. Teratogenicity: No studies have been performed for this specific product blend. Target Organ Statement: No studies have been conducted for this specific product blend. | | | |

12. ECOLOGICAL INFORMATION

| Hazardous Components | CAS No.: | LC:50 | EC:50 |
|--|-----------|--|-------------------------------|
| Methanecarboxylic acid | 64-19-7 | 300.82 mg/l 48 hour Daphnia Magna 75 mg/l 96 hours Bluegill | 65mg/l 48 hour Daphnia Magna |
| Sodium Acetate trihydrate | 6131-90-4 | No data at publication | No data at publication |
| Special Remarks-Products of biodegradation: | | | No information at publication |

13. WASTE DISPOSAL CONSIDERATIONS

| | | | |
|--|--|--|--|
| Disposal Regulatory Requirements: | Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable federal, state and local regulations. | | |
| Container Cleaning and Disposal: | Triple rinse the empty containers with water before disposal to reconditioned or land fill or garbage. | | |

14. TRANSPORTATION INFORMATION

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|------------------------------------|--------------------------------|-------------------|-----------------------|--------------------|-------------------------------|
| Proper Shipping Name: | NON REGULATED MATERIALS | | | | DOT Shipping Label(s): |
| Contains: | | | | | |
| Hazard Class: | Marine Pollutant: | UN Number: | Packing Group: | ERG Number: | |
| Non Hazardous | No | NA | NA | NA | |
| Special Shipping Notations: | None | | | | |

Note: Transportation information provided is for reference only. Client is urged to consult CFR 49, Parts 100-177, IMDG, IATA, EU, United Nations, TDG and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

15. REGULATORY INFORMATION

| | |
|----------------------------------|---|
| Hazard Symbols: |  |
| Hazard Statements: | H303-May be harmful if swallowed H316-Causes mild skin irritation. H320-Causes eye Irritation |
| Precautionary Statements: | P102+P103-Keep out of reach of children. Read label before use. P233+P234-Keep container tightly closed. Keep only in original container. P262-Do not get in eyes, on skin, or on clothing. P264-Wash thoroughly after handling. P270-Do not eat, drink or smoke when using this product. P281-Use personal protective equipment as required. P301+330+331- If swallowed, rinse mouth. Do not induce vomiting. P304+P341- If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+P351+P338- If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present. |
| EPA Regulations: | |

| | |
|---|---|
| RCRA Hazardous Waste Number: | Product blend is not listed (40 CFR 261.33) |
| RCRA Hazardous Waste Classification (40 CFR 261.): | Product blend is not classified. |

| | |
|---|---|
| CERCLA Hazardous Substance (40 CFR 302.4): | Product blend is unlisted specific per RCRA, Sec. 3001; CWA, Sec. 311 (b) (4); CWA, Sec. 307 (a), |
| CAA, Sec. 112 CERCLA Reportable Quantity (RQ): | Contains: Methanecarboxylic acid 5,000 lb |
| SARA 313 Codes: This product is subject to the reporting requirements of section 313 of the Emergency Planning and Community Right to Know Act of 1986 and 40CFR372. | Not listed |
| SARA Toxic Chemical (40CFR 372.65): | Not listed |
| Sara 302/304 Extremely Hazardous Substance (40CFR 355) | Not listed |
| Sara 313 SARA EHS (Extremely Hazardous Substance) (40 CFR 355): | Not listed |
| Threshold Planning Quantity (TPQ): | Not listed |
| OSHA Regulations: | |
| Air Contaminant (20 CFR 1910.1000, Table Z-1, Z-1-A): | Not listed. |
| OSHA Specifically Regulated Substance (29 CFR 1910.): | Not Listed |
| State Regulations: | As a product blend, the materials are generally not listed. Check with your local state regulatory board for more detailed information regarding the specific components of this product. |
| National Regulations: | All components of this product are listed in the U.S. Environmental Protection Agencies, Toxic Substance Control Act (TSCA) Chemical Substance Inventory. |

16. OTHER INFORMATION

SDS Prepared/Reviewed By: P. Hall
Date of Preparation: 3/2016

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

USER'S RESPONSIBILITY

The information and recommendations contained herein cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers. It is your responsibility to use this information to develop appropriate work practice guidelines and employee instructional programs for your operation.

DISCLAIMER OF LIABILITY

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this material. Information contained herein is believed to be true and accurate but all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state and local laws and regulations remains the responsibility of the user.