Manufactured by:

# Anderson **Chemical Company**

325 SOUTH DAVIS AVENUE LITCHFIELD, MINNESOTA 55355 (320) 693-2477

Health 3 Flammability

Reactivity

Personal Protection X HMIS Rating System\*

Flammability Health Reactivity Special See Bottom Hazard of Page

NFPA Hazard Rating\*

Name: SS-1 Liquid Sulfite Acid Reagent

24-HOUR EMERGENCY PHONE #: 1-800-424-9300 (CHEMTREC)

Revised: 5/3/2010

Supersedes: 11/29/2001

**Chemical Name And Synonyms:** 

I. IDENTIFICATION **DOT Shipping Name** 

Wt-B41

ORM-D

**Chemical Family:** 

**DOT Hazard Class & I.D. Number** 

PG

Not applicable

8

Inorganic Acid

HAZARDOUS INGREDIENTS 

Component Sulfuric Acid

CAS NO. 7664-93-9

TLV 1 mg/m<sup>3</sup>

PEL 1 mg/m<sup>3</sup> Toxic NΑ

Hazard Corrosive to skin, eyes, respiratory tract.

\*\*Toxic chemical subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR §372).

NA: Not applicable NE: Not established

III. PHYSICAL DATA

Form: Liquid

Boiling Point: 102 - 104 deg. C Specific Gravity: 1.073

Solubility In Water: Complete

Odor: None

## IV. FIRE AND EXPLOSION HAZARD DATA

Flashpoint: Not Applicable

Appearance: Clear, colorless

Extinguishing Media: For fires in area, use appropriate media. For example: water spray, dry chemical, carbon dioxide, halon and foam.

Special Fire Although this product is not combustible, if a fire occurs in the near vicinity, good fire-fighting practice dictates the use of self-Fighting Procedures: contained breathing apparatus and other protective gear.

Unusual Fire And This product is corrosive and presents a significant contact hazard to firefighters. When involved in a fire, this material may Explosion decompose and produce irritating fumes and toxic gases (including carbon monoxide, carbon dioxide and oxides of sulfur). Do not Hazards: let a solid stream of water contact spilled material.

## V. HEALTH HAZARD DATA

Carcinogenic: The raw materials used in this product are not considered to be a carcinogen by ACGIH and OSHA.

Effects Of Contact with the eyes may cause severe irritation, eye burns, and permanent eye damage. Contact with the skin may cause severe irritation, skin burns Over-exposure: and permanent skin damage. Prolonged exposure may result in ulcerating burns which could leave scars. Though ingestion is not anticipated to be a significant route of overexposure to this product, if ingestion does occur burning and irritation of the mouth, throat, esophagus, and other tissues of the digestive system will occur immediately upon contact. Ingestion of large quantities may be fatal. If mists or sprays of this solution are inhaled, this product may cause pulmonary irritation, irritation of the mucous membranes, coughing and a sore throat. Inhalation of high concentrations of this product may cause damage to the tissues of the respiratory system, producing potentially fatal lung disorders (chemical pneumonitis and pulmonary

Emergency And First Eyes: Flush immediately with water for 15 minutes. Lift upper and lower eyelids for complete rinsing. Get immediate medical Aid Procedures: attention.

> Skin: Flush with water for 15 minutes. Get medical attention. Remove contaminated clothing and wash before reuse. Ingestion: Rinse mouth with water, Give water to dilute. Do not induce vomiting. Get immediate medical attention. Never give anything by mouth to a semicomatose, comatose, convulsing or unconscious person.

Inhalation: Remove victim from immediate source of exposure to fresh air. If breathing is difficult, administer oxygen if available. If victim is not breathing, administer CPR. If individual experiences nausea, headache, or dizziness, get immediate medical attention. The use of gastric lavage is controversial. The removal of acid must be weighed against the risk of perforation or bleeding.

\* NFPA/HMIS Degree or Hazard: 4 = Extreme: 3 = High; 2 = Moderate; 1 = Slight; 0 = Insignificant.

HMIS A. Safety Glasses B. Safety Glasses, Gloves C. Safety Glasses, Gloves, Apron D. Face Shield, Gloves, Apron E. Safety Glasses, Gloves, Dust Respirator F. Safety Glasses, Gloves, Apron, Dust Respirator G. Safety Glasses, Gloves, Vapor Respirator H. Splash Goggles, Gloves, Apron, Vapor Respirator I. Safety Glasses, Gloves, Vapor and Dust Respirator J. Splash Goggles, Gloves, Apron, Vapor Respirator I. Safety Glasses, Gloves, Vapor and Dust Respirator J. Splash Goggles, Gloves, Apron, Vapor Respirator I. Safety Glasses, Gloves, Vapor and Dust Respirator J. Splash Goggles, Gloves, Apron, Vapor Respirator I. Safety Glasses, Gloves, Vapor and Dust Respirator J. Splash Goggles, Gloves, Apron, Vapor Respirator I. Safety Glasses, Gloves, Vapor and Dust Respirator II. Splash Goggles, Gloves, Apron, Vapor Respirator III. Splash Goggles, Gloves, Apron, Vapor Respirato Vapor and Dust Respirator K. Air Line, Hood or Mask, Gloves, Full Suit, Boots X. Ask your supervisor for guidance.

## Page 2; Product Name: SS-1 Liquid Sulfite Acid Reagent

### VI. REACTIVITY DATA

Stability -Unstable: Stable: X

Conditions To Avoid: Avoid exposure to extreme temperatures and incompatible materials.

Incompatibility: Strong alkalis (bases), powder metals, reducing agents, alkali metals, carbides, cyanides, sulfides. Do not mix with sodium

(Materials to Avoid) hypochlorite, sodium bisulfite, or chlorine containing solutions - a deadly gas may be formed.

Hazardous Thermal decomposition products are carbon monoxide, carbon dioxide and oxides of sulfur.

**Decomposition Products:** 

## VII. SPILL OR LEAK PROCEDURES

## Steps To Be Taken In Case Material Is Released Or Spilled:

Evacuate nonessential personnel. Respond with trained personnel only. Wear appropriate personal protection equipment. Maintain adequate ventilation. Completely contain spilled material with dikes or sandbags, etc., and prevent run-off into ground or surface waters or sewers. Recover as much material as possible into containers for disposal. Remaining material may be diluted with water and neutralized with sodium bicarbonate or soda ash. Neutralization products, both solid and liquid, must be recovered for disposal.

Waste Disposal Method: Observe all local, state, and federal regulations.

### VIII. SPECIAL PROTECTION INFORMATION

Respiratory Protection: If recommended exposure limits are exceeded wear: NIOSH-Approved respirator. Do not exceed limits established by the respirator manufacturer. Respiratory protection programs must comply with 29 CFR 1910.134.

Ventilation: Use corrosion resistant ventilation to keep exposure below limits.

Protective Gloves: Impervious gloves for this material.

Eye Protection: Chemical safety goggles. Face shield if splashing can occur.

Protective Clothing: Use protective clothing appropriate for task. Coverall, rubber apron, or chemical protective clothing made from natural

rubber or other appropriate material.

#### IX. SPECIAL PRECAUTIONS

#### Precautions To Be Taken in Handling And Storing:

Do not get in eyes, on skin, or on clothing. Do not swallow. Wash thoroughly after handling. Do not eat, drink, or smoke in work area when handling this product. Use with adequate ventilation. Avoid breathing mists or dusts. Open containers slowly on a stable surface. Do not store in unlabeled or mislabeled containers. Store in a cool, dry area away from all sources of intense heat, or where freezing is possible, incompatible materials, and out of direct sunlight. Material should be stored in secondary container or in a diked area, as appropriate. Keep containers tightly closed when not in use. Storage area should be made of fire resistant materials. Empty containers may contain product residual, handle with care.

Other Precautions Eyewash station and safety shower should be maintained in work area.

### X. REVISED INFORMATION

MSDS Status: Review and update



Anderson **Chemical Company** 

325 SOUTH DAVIS AVENUE LITCHFIELD, MINNESOTA 55355 (320) 693-2477

Health Flammability

Reactivity

Personal Protection X HMIS Rating System\*



Product

Name: SS-2 Liquid Sulfite Starch Indicator

24-HOUR EMERGENCY PHONE #: 1-800-424-9300 (CHEMTREC)

Revised: 5/3/2010

Supersedes: 6/3/2003

I. IDENTIFICATION

Chemical Name And Synonyms:

**DOT Shipping Name** 

WT-B42

Not applicable

Chemical Family:

**DOT Hazard Class & I.D. Number** 

PG

Not applicable

lmt

Not applicable Component

HAZARDOUS INGREDIENTS

TLV

Toxic

Hazard

Sodium hydroxide

CAS NO. 1310-73-2

2 mg/M3

NA

Irritation

\*\*Toxic chemical subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR §372).

NA: Not applicable NE: Not established

III. PHYSICAL DATA

Form: Liquid Boiling Point: 212° F. Specific Gravity: 1.00 Solubility in Water: Complete Appearance: Red liquid

0.5

Odor: None

IV. FIRE AND EXPLOSION HAZARD DATA

Flashpoint: Not Applicable Extinguishing Media: Not applicable

Special Fire Although this product is not combustible, if a fire occurs in the near vicinity, good fire-fighting practice dictates the use of self-Fighting Procedures: contained breathing apparatus and other protective gear.

Unusual Fire And Not applicable Explosion Hazards:

V. HEALTH HAZARD DATA

Carcinogenic: The raw materials used in this product are not considered to be a carcinogen by ACGIH and OSHA.

Effects Of Causes drying and irritation to eyes. Repeated or prolonged contact may cause irritation and drying to skin in sensitive individuals. Over-exposure:

Emergency And First Eyes: Flush immediately with plenty of water for 15 minutes. Lift upper and lower eyelids for complete rinsing. If irritation persists Aid Procedures: after rinsing, get medical attention.

> Skin: Flush with water for 15 minutes. If irritation persists after rinsing, get medical attention. Remove contaminated clothing and wash before reuse.

## Page 2; Product Name: SS-2 Liquid Sulfite Starch Indicator

VI. REACTIVITY DATA

Stability -Unstable: Stable: X

Conditions To Avoid: Not applicable

Incompatibility: Not applicable

(Materials to Avoid)

Hazardous Not applicable

**Decomposition Products:** 

VII. SPILL OR LEAK PROCEDURES

Steps To Be Taken in Case Material is Released Or Spilled:

Flush spill with water and discharge to sanitary sewer.

Waste Disposal Method: Dispose of in accordance with all federal, state, and local regulations.

VIII. SPECIAL PROTECTION INFORMATION

Respiratory Protection: Not required for normal use.

Ventilation: Not required for normal use.

Protective Gloves: Not required for normal use. Recommended for individuals with sensitive skin.

Eye Protection: Safety glasses

Protective Clothing: Not applicable

IX. SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling And Storing:

Not applicable

Other Precautions Not applicable

X. REVISED INFORMATION

**MSDS Status:** 



Anderson

**Chemical Company** 

325 SOUTH DAVIS AVENUE LITCHFIELD, MINNESOTA 55355 (320) 693-2477

Health

Flammability

Reactivity Personal Protection X HMIS Rating System\*

Flammability 0 Health Reactivity Special See Bottom Hazard of Page NFPA Hazard Rating\*

Name: SS-3 Liquid Sulfite Titrant

24-HOUR EMERGENCY PHONE #: 1-800-424-9300 (CHEMTREC)

Revised: 5/5/2010 Imt Supersedes: 6/3/2003

I. IDENTIFICATION

**Chemical Name And Synonyms:** 

**DOT Shipping Name** 

Not Applicable

Not Applicable

**Chemical Family:** 

**DOT Hazard Class & I.D. Number** 

PG

Not Applicable

Not Applicable

Component

HAZARDOUS INGREDIENTS

CAS NO.

PEL Toxic Hazard

No hazardous ingredients

NA

\*\*Toxic chemical subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR §372).

NA: Not applicable

NE: Not established

III. PHYSICAL DATA

Boiling Point: 212°F.

Form: Liquid

Specific Gravity: 1.00

Solubility In Water: Complete

Appearance: Light Yellow Liquid

Odor: None

IV. FIRE AND EXPLOSION HAZARD DATA

Flashpoint: Not Applicable

Extinguishing Media: Not Applicable

Special Fire Although this product is not combustible, if a fire occurs in the near vicinity, good fire-fighting practice dictates the use of self-

Fighting Procedures: contained breathing apparatus and other protective gear.

Unusual Fire And Not Applicable

Explosion Hazards:

V. HEALTH HAZARD DATA

Carcinogenic: The raw materials used in this product are not considered to be a carcinogen by ACGIH and OSHA.

Effects Of Causes eye irritation. Prolonged or repeated exposure will irritate the skin.

Over-exposure:

Emergency And First Eyes: Flush immediately with plenty of water for 15 minutes. Lift upper and lower eyelids for complete rinsing. If irritation persists Aid Procedures: after rinsing, get medical attention.

Skin: Flush with water for 15 minutes. If irritation persists after rinsing, get medical attention. Remove contaminated clothing and wash before reuse.

Ingestion: Call a physician.

\* NFPA/HMIS Degree or Hazard: 4 = Extreme; 3 = High; 2 = Moderate; 1 = Slight; 0 = Insignificant.

Continued On Back

HMIS A. Safety Glasses B. Safety Glasses, Gloves C. Safety Glasses, Gloves, Apron D. Face Shield, Gloves, Apron E. Safety Glasses, Gloves, Dust Respirator F. Safety Glasses, Gloves, Apron, Dust Respirator G. Safety Glasses, Gloves, Vapor Respirator H. Splash Goggles, Gloves, Apron, Vapor Respirator I. Safety Glasses, Gloves, Vapor and Dust Respirator J. Splash Goggles, Gloves, Apron, Vapor and Dust Respirator K. Air Line, Hood or Mask, Gloves, Full Suit, Boots X. Ask your supervisor for guidance.

Page 2; Product Name: SS-3 Liquid Sulfite Titrant

VI. REACTIVITY DATA

Stability -

Unstable:

Stable: X

Conditions To Avoid: Not Applicable

Incompatibility: Not Applicable

(Materials to Avoid)

Hazardous Not Applicable

**Decomposition Products:** 

VII. SPILL OR LEAK PROCEDURES

Steps To Be Taken in Case Material is Released Or Spilled:

Flush spill with water and discharge to sanitary sewer.

Waste Disposal Method: Dispose of in accordance with all federal, state, and local regulations.

VIII. SPECIAL PROTECTION INFORMATION

Respiratory Protection: Not required for normal use.

Ventilation: Not required for normal use.

Protective Gloves: Not required for normal use. Recommended for individuals with sensitive skin.

Eye Protection: Safety Glasses

Protective Clothing: Not Applicable

IX. SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling And Storing:

Not Applicable

Other Precautions Not Applicable

X. REVISED INFORMATION

**MSDS Status:** 

Manufactured by:

## **ANDERSON Chemical Company**

325 SOUTH DAVIS AVENUE LITCHFIELD, MINNESOTA 55355 (320) 693-2477



Product

Name: Amino Acid Reagent

24-HOUR EMERGENCY PHONE #: 1-800-424-9300 (CHEMTREC) Supersedes:

Revised: 10/1/2003

I. IDENTIFICATION

**Chemical Name And Synonyms:** 

**DOT Shipping Name** 

Not applicable

Not applicable

Chemical Family: Not applicable

**DOT Hazard Class & I.D. Number** 

PG

Not applicable

HAZARDOUS INGREDIENTS Hazard CAS NO. PEL Toxic Component Toxic. May be embryotixic. Severe eye irritant. 313\*\* 68-12-2 20-30 10 ppm N,N-dimethylformamide 10 ppm NA May cause irritation. May cause allergic reaction. Sodium metabisulfite 7681-57-4 1-10 5 mg/m3 5 mg/m3 ΝE May cause irritation. May cause allergic reaction. Sodium sulfite 7757-83-7 1-5 ΝĒ NA

\*\*Toxic chemical subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR §372).

NA: Not applicable

III. PHYSICAL DATA

NF: Not aetabliched

Boiling Point: 216°F

Form: Liquid

pH, Neat: 5.8

Specific Gravity: 1.065

Solubility In Water: Miscible

Appearance: Clear, yellow liquid

Odor: Amine

## IV. FIRE AND EXPLOSION HAZARD DATA

Flashpoint: >200°F

Extinguishing Media: Not applicable

**Special Fire** 

Fighting Procedures: Although this product is not combustible, if a fire occurs in the near vicinity, good fire-fighting practice dictates the use of self-

contained breathing apparatus and other protective gear.

Unusual Fire And

Explosion May react violently with strong oxidizers, alkali metals, metal nitrates, chlorine/chlorine compounds, nitric acid

### V. HEALTH HAZARD DATA

Carcinogenic: The raw materials used in this product are not considered to be a carcinogen by OSHA

Effects Of Over-exposure: Harmful if inhaled or absorbed through skin. Causes severe eye irritation. May cause skin and respiratory tract irritation. May cause kidney or liver damage based on animal data.

#### **Emergency And First**

Ald Procedures: EYES: Flush with water for 15 minutes, raise eyelids for complete rinsing. Get immediate medical attention. SKIN: Flush with water for 15 minutes. Call a physician. Remove contaminated clothing and wash before reuse. INGESTION: Induce vomiting. Get immediate medical attention. Never give anything by mouth to an unconscious person. INHALATION: Move person to fresh air. If breathing stops, administer artificial respiration. If breathing is difficult, have a trained person administer oxygen. Get immediate medical attention.

\* NFPA/HMIS Degree or Hazard: 4 = Extreme; 3 = High; 2 = Moderate; 1 = Slight; 0 = Insignificant. A. Safety Glasses B. Safety Glasses, Gloves C. Safety Glasses, Gloves, Apron D. Face Shield, Gloves, Apron E. Safety Glasses, Gloves, Oust Respirator F. Safety Glasses, Gloves, Apron, Dust Respirator G. Safety Glasses, Gloves, Vapor Respirator H. Splash Goggles, Gloves, Apron, Vapor Respirator I. Safety Glasses, Gloves, Vapor and Dust Respirator J. Splash Goggles, Gloves, Apron, Vapor and Dust Respirator K. Air Line, Hood or Mask, Gloves, Full Suit, Bools X. Ask your supervisor for guidance.

## Page 2; Product Name: Amino Acid Reagent

### VI. REACTIVITY DATA

Stability -

Unstable:

Stable: x

Conditions To Avoid: Extreme temperatures, exposure to direct sunlight

Incompatibilit Incompatible with oxidizers, alkali metals, nitric acid, metal nitrates, chlorine, bromine.

(Materials To Avoid)

Hazardous

Decomposition Products: Toxic fumes of sulfur oxides, nitrogen oxides, carbon monoxide and carbon dioxide.

#### VII. SPILL OR LEAK PROCEDURES

#### Steps To Be Taken In Case Material Is Released Or Spilled:

Absorb spilled liquid with non-reactive sorbent material. Sweep up material. Dispose of in a EPA approved hazardous waste facility. Decontaminate the area of the spill with a soap solution.

Waste Disposal Method: Dispose of in accordance with local, state, and federal regulations.

### VIII. SPECIAL PROTECTION INFORMATION

Respiratory Protection: Respiratory protection is not required for normal use.

Ventilation: General ventilation to minimize exposure to mist, vapor or dust.

Protective Gloves: Chemically resistant gloves

Eye Protection: Safety glasses

Protective Clothing: Lab coat or apron.

## IX. SPECIAL PRECAUTIONS

#### Precautions To Be Taken In Handling And Storing:

Safety shower and eyewash stations should be provided in the areas where this product is handled.

Other Precautions: Avoid contact with eyes, skin and clothing. Do not breathe mist or vapors. Wash thoroughly after handling. Use with

adequate ventilation. Maintain general industrial hygiene practices when using this product.

Keep container tightly closed when not in use. Protect from heat. Keep away from acids/acid fumes, oxidizers, alkali

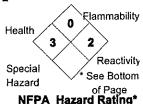
#### X. REVISED INFORMATION

**MSDS Status:** 

Manufactured by:

## **ANDERSON Chemical Company**

325 SOUTH DAVIS AVENUE LITCHFIELD, MINNESOTA 55355 (320) 693-2477



Product

Name: Molybdate Reagent

Revised: 10/1/2003

24-HOUR EMERGENCY PHONE #: 1-800-424-9300 (CHEMTREC) Supermedes;

I. IDENTIFICATION

**Chemical Name And Synonyms:** 

**DOT Shipping Name** 

Not applicable

Corrosive Liquid, Acidic, Inorganic, N.O.S.

(Sulfuric Acid)

**Chemical Family:** 

**DOT Hazard Class & I.D. Number** 

PG

Corrosive Material UN3264

Ш

Imt

Not applicable

ZARDOUS INGREDIENTS

Hazard

Component Ammonium Molybdate CAS NO.

5 mg/m3

Toxic NA NA

Toxic. May cause irritation.

Sulfuric Acid

12054-85-2 7664-93-9

40-50 1 mg/m3 5 mg/m3 1 mg/m3

Causes severe burns. Harmful if inhaled.

\*\*Toxic chemical subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR §372).

NA: Not applicable NE- Not actablished

III. PHYSICAL DATA

Form: Liquid pH. Neat: <0.5

**Boiling Point:** Not determined Specific Gravity: 1,30

Solubility In Water: Miscible

Appearance: Clear, colorless liquid

Odor: None

IV. FIRE AND EXPLOSION HAZARD DATA

Flashpoint: Not applicable

Extinguishing Media: Dry chemical. Do not use water.

Special Fire

Fighting Procedures: Although this product is not combustible, if a fire occurs in the near vicinity, good fire-fighting practice dictates the use of self-

contained breathing apparatus and other protective gear.

**Unusual Fire And** 

Explosion Reacts with most metals to form flammable hydrogen gas. During a fire, corrosive and toxic gases may be generated by thermal

decomposition.

V. HEALTH HAZARD DATA

Carcinogenic: The raw materials used in this product are not considered to be a carcinogen by OSHA

Effects Of Over-exposure: Causes eye burns. Harmful if inhaled, causes severe burns. Causes skin irritation. Ingestion causes severe burns.

**Emergency And First** 

Ald Procedures: EYES: Flush with water for 15 minutes, raise eyelids for complete rinsing. Get immediate medical attention.

SKIN: Flush with water for 15 minutes. Call a physician. Remove contaminated clothing and wash before reuse.

INGESTION: Do not induce vomiting. Give large quantities of water or milk. Get immediate medical attention. Never give

anything by mouth to an unconscious person.

INHALATION: Move person to fresh air. If breathing stops, administer artificial respiration. If breathing is difficult, have a trained

person administer oxygen. Get immediate medical attention.

Continued On Back \* NFPA/HMIS Degree or Hazard: 4 = Extreme; 3 = High; 2 = Moderate; 1 = Slight; 0 = Insignificant. A. Safety Glasses B. Safety Glasses, Gloves C. Safety Glasses, Gloves, Apron D. Face Shield, Gloves, Apron E. Safety Glasses, Gloves, Dust Respirator F. Safety Glasses, Gloves, Apron, Oust Respirator G. Safety Glasses, Gloves, Vapor Respirator H. Splash Goggles, Gloves, Apron, Vapor Respirator I. Safety Glasses, Gloves, Vapor and Dust Respirator J. Splash Goggles, Gloves, Apron, Vapor and Dust Respirator K. Air Line, Hood or Mask, Gloves, Full Suit, Boots X. Ask your supervisor for guidance.

## Page 2; Product Name: Molybdate Reagent

### VI. REACTIVITY DATA

Stability -Unstable: Stable: x

Conditions To Avoid: Exposure to light. Extreme temperatures. Heating to decomposition.

Incompatibilit May react violently with contact with acetic acid, chlorosulfonic acid, strong bases, oxidizers, reducers. Incompatible with (Materials To Avoid) metals.

Hazardous

Decomposition Products: Reacts with most metals to form flammable hydrogen gas, heating to decomposition releases toxic and/or corrosive fumes

of ammonia, nitrogen oxides, sulfur oxides.

### VII. SPILL OR LEAK PROCEDURES

### Steps To Be Taken In Case Material is Released Or Spilled:

Cover spilled material with an alkali, such as soda ash or sodium bicarbonate. Scoop up slurry into a large beaker. Dilute with excess water. Adjust to a pH between 6-9. Flush reacted material to the drain with a large excess of water. Decontaminate the area of the spill with a soap solution.

Waste Disposal Method: Dispose of in accordance with local, state, and federal regulations.

## VIII. SPECIAL PROTECTION INFORMATION

Respiratory Protection: Respiratory protection is not required for normal use.

Ventilation: General ventilation to minimize exposure to mist, vapor or dust.

Protective Gloves: Chemically resistant gloves

Eye Protection: Safety glasses

Protective Clothing: Lab coat or apron.

#### IX. SPECIAL PRECAUTIONS

#### Precautions To Be Taken In Handling And Storing:

Safety shower and eyewash stations should be provided in the areas where this product is handled.

Other Precautions: Avoid contact with eyes, skin and clothing. Do not breathe mist or vapors. Wash thoroughly after handling. Use with

adequate ventilation. Maintain general industrial hygiene practices when using this product.

Keep container tightly closed when not in use. Protect from heat. Keep away from alkalis, oxidizers, reducers and metals.

#### X. REVISED INFORMATION

**MSDS Status:** 



Anderson **Chemical Company** 

325 SOUTH DAVIS AVENUE LITCHFIELD, MINNESOTA 55355 (320) 693-2477

Health Flammability

Reactivity

Personal Protection X **HMIS Rating System\*** 

Flammability Health 0 Reactivity Special See Bottom Hazard of Page NFPA Hazard Rating\*

Product

Name: pH Indicator, HPR

24-HOUR EMERGENCY PHONE #: 1-800-424-9300 (CHEMTREC)

Revised: 5/5/2010

Supersedes: 1/17/2005

Chemical Name And Synonyms:

Not applicable

**DOT Shipping Name** 

Not applicable.

Chemical Family:

**DOT Hazard Class & I.D. Number** 

PG

Not applicable.

HAZARDOUS INGREDIENTS

I. IDENTIFICATION

Component

Not applicable

CAS NO.

PEL **Toxic** 

NA

Hazard

Not applicable

\*\*Toxic chemical subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR §372).

NA: Not applicable NE: Not established

III. PHYSICAL DATA

Form: Liquid Solubility In Water: Complete

Appearance: Clear, red liquid

Boiling Point: 140 dec C

Specific Gravity: ~1.0

Odor: None

IV. FIRE AND EXPLOSION HAZARD DATA

Flashpoint: Not applicable

Extinguishing Media: Water, carbon dioxide, dry chemical.

Special Fire Although this product is not combustible, if a fire occurs in the near vicinity, good fire-fighting practice dictates the use of self-Fighting Procedures: contained breathing apparatus and other protective gear.

Unusual Fire And Not applicable.

**Explosion** Hazards:

V. HEALTH HAZARD DATA

Carcinogenic: The raw materials used in this product are not considered to be a carcinogen by ACGIH and OSHA.

Effects Of May cause eye irritation.

Over-exposure:

Emergency And First Eyes: Flush immediately with plenty of water for 15 minutes. Lift upper and lower eyelids for complete rinsing. If irritation persists Aid Procedures: after rinsing, get medical attention.

> Skin: Flush with water for 15 minutes. If irritation persists after rinsing, get medical attention. Remove contaminated clothing and wash before reuse.

Ingestion: Call a physician.

\* NFPA/HMIS Degree or Hazard: 4 = Extreme; 3 = High; 2 = Moderate; 1 = Slight; 0 = Insignificant. Continued On Back HMIS A. Safety Glasses B. Safety Glasses, Gloves C. Safety Glasses, Gloves, Apron D. Face Shield, Gloves, Apron E. Safety Glasses, Gloves, Dust Respirator F. Safety Glasses, Gloves, Apron, Dust Respirator G. Safety Glasses, Gloves, Vapor Respirator H. Splash Goggles, Gloves, Apron, Vapor Respirator I. Safety Glasses, Gloves, Vapor and Dust Respirator J. Splash Goggles, Gloves, Apron, Vapor Respirator I. Safety Glasses, Gloves, Vapor and Dust Respirator J. Splash Goggles, Gloves, Apron, Vapor Respirator I. Safety Glasses, Gloves, Vapor and Dust Respirator J. Splash Goggles, Gloves, Apron, Vapor Respirator I. Splash Goggles, Gloves, Apron, Vapor Respirator II. Splash Goggles, Glov Vapor and Dust Respirator K. Air Line, Hood or Mask, Gloves, Full Suit, Boots X. Ask your supervisor for guidance.

## Page 2; Product Name: pH Indicator, HPR

### VI. REACTIVITY DATA

Stability -Unstable:

Stable: X

Conditions To Avoid: Heat and evaporation

Incompatibility: Not applicable.

(Materials to Avoid)

Hazardous Toxic fumes of carbon monoxide and carbon dioxide. **Decomposition Products:** 

## VII. SPILL OR LEAK PROCEDURES

#### Steps To Be Taken In Case Material is Released Or Spilled:

Stop spill. Absorb spilled liquid with non-reactive sorbent material. Sweep up material. Place material in a plastic bag. Decontaminate the area of the spill with a soap solution.

Waste Disposal Method: Flush down drain.

VIII. SPECIAL PROTECTION INFORMATION

Respiratory Protection: Not required for normal use.

Ventilation: Adequate.

Protective Gloves: Disposable plastic gloves.

Eye Protection: Safety glasses.

Protective Clothing: Not applicable.

## IX. SPECIAL PRECAUTIONS

#### Precautions To Be Taken In Handling And Storing:

Avoid temperature extremes, keep product out of direct sunlight. Keep container tightly closed when not in use. Avoid contact with eyes. Wash thoroughly after handling, Maintain general industrial hygiene practices when using this product.

Other Precautions Not applicable.

## X. REVISED INFORMATION

MSDS Status: Review and update