

For Product(s): 160

Material Safety Data Sheet

Rev. 1/10/97

Identity

Wide Range pH Test Solution



Aquarium Pharmaceuticals, Inc.
50 E Hamilton Street
P.O. Box 218
Chalfont PA 18914

General Info. (215)822-8181
For Poison Control Information,
please contact your regional
Poison Control Center

• Hazardous Ingredients/Identity Information

| Hazardous Components | OSHA PEL | ACGIH TLV | Other Limits | % |
|--|----------|-----------|--------------|---|
| No hazardous ingredients 1% or greater or 0.1% for carcinogens | NA | NA | NA | - |

• Physical/Chemical Characteristics

| | | | |
|-------------------------|--|---|-------|
| Boiling Point | NA | Specific Gravity (H ₂ O = 1) | 0.994 |
| Vapor Pressure (mm Hg.) | NA | Melting Point | NA |
| Vapor Density (Air = 1) | NA | Evaporation Rate (Butyl Acetate = 1) | NA |
| Solubility in Water | Soluble | | |
| Appearance and Odor | Extremely dark solution with slight odor | | |

• Fire and Explosion Hazard Data

| | | | | | | |
|------------------------------------|--|------------------|-----|----|-----|----|
| Flash Point (Method Used) | NA | Flammable Limits | LEL | NA | UEL | NA |
| Extinguishing Media | Use appropriate media to fight underlying fire | | | | | |
| Special Firefighting Procedures | NA | | | | | |
| Unusual Fire and Explosion Hazards | NA | | | | | |

• Reactivity Data

| | | | | |
|---------------------------------------|----------------|-------------------------------------|---------------------|----|
| Stability | Unstable | <input type="checkbox"/> | Conditions to Avoid | NA |
| | Stable | <input checked="" type="checkbox"/> | | |
| Incompatibility (Materials to Avoid) | | | NA | |
| Hazardous Decomposition or Byproducts | | | NA | |
| Hazardous | May Occur | <input type="checkbox"/> | Conditions to Avoid | NA |
| Polymerization | Will Not Occur | <input checked="" type="checkbox"/> | | |

• Health Hazard Data

Route(s) of Entry: Inhalation? ☐ Skin? ☒ Ingestion? ☒

Health Hazards (Acute & Chronic) Not considered hazardous

Carcinogenicity NTP? ☐ IARC? ☐ OSHA? ☐

Signs & Symptoms of Exposure May stain skin or clothes

Medical Conditions Generally Aggravated By Exposure NA

Emergency and First Aid Procedures Eye Contact - flush with water for at least 15 minutes.
Contact a physician if condition persists.
Skin Contact - Wash with soap and water
Ingestion - Contact physician or poison control center

• Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled Contain spill. Absorb and place in sealable container

Waste Disposal Method Dispose of according to federal, state and local regulations

Precautions to Be Taken in Handling and Storing Store in original container. Keep out of reach of children.

Other Precautions Wash with soap and water after handling.

• Control Measures

Respiratory Protection NA

Ventilation NA

Protective Gloves Recommended to prevent staining skin

Eye Protection Safety Glasses

Other Protective Clothing or Equipment NA

Work/Hygienic Practices Practice good sanitary habits after handling (ie wash hands)

Material Safety Data Sheet

For Product(s): 162

Rev. 04/15/03

Identity

Pond Care Ammonia Test Solution #1



Aquarium Pharmaceuticals, Inc.
50 E Hamilton Street
P.O. Box 218
Chalfont PA 18914

General Info. (215)822-8181
For Poison Control Information,
please contact your regional
Poison Control Center

• Hazardous Ingredients/Identity Information

| Hazardous Components | OSHA PEL | ACGIH TLV | Other Limits | % |
|--------------------------------|----------|-----------|--------------|-----|
| Sodium Salicylate CAS# 54-21-7 | NA | NA | NA | ~10 |

• Physical/Chemical Characteristics

| | | | |
|-------------------------|-------------------------------|---|----------------|
| Boiling Point | Not determined | Specific Gravity (H ₂ O = 1) | Not determined |
| Vapor Pressure (mm Hg.) | Not determined | Melting Point | Not determined |
| Vapor Density (Air = 1) | Not determined | Evaporation Rate (Butyl Acetate = 1) | Not determined |
| Solubility in Water | Freely soluble | | |
| Appearance and Odor | Yellow liquid with mild odor. | | |

• Fire and Explosion Hazard Data

| | | | | | | |
|------------------------------------|---|------------------|-----|----|-----|----|
| Flash Point (Method Used) | Not determined | Flammable Limits | LEL | NA | UEL | NA |
| Extinguishing Media | Apply Alcohol type or all purpose type foam by manufacturers recommended technique for large fires. Use carbon dioxide or dry chemical media for small fires. | | | | | |
| Special Firefighting Procedures | Use self contained breathing apparatus and protective clothing. | | | | | |
| Unusual Fire and Explosion Hazards | NA | | | | | |

• Reactivity Data

| | | | |
|---------------------------------------|---|---------------------|----|
| Stability | Unstable <input type="checkbox"/> | Conditions to Avoid | NA |
| | Stable <input checked="" type="checkbox"/> | | |
| Incompatibility (Materials to Avoid) | Sodium salicylate is incompatible with ferric salts, iodine, lime water, mineral acids, oxidizers, lead acetate, spirit nitrous ether, silver nitrate and sodium phosphate. | | |
| Hazardous Decomposition or Byproducts | Carbon dioxide, carbon monoxide, sodium oxide and toxic oxides of carbon. | | |

| | | |
|----------------|--|------------------------|
| Hazardous | May Occur <input type="checkbox"/> | Conditions to Avoid NA |
| Polymerization | Will Not Occur <input checked="" type="checkbox"/> | |

• Health Hazard Data

| | | | |
|---|---|---|--|
| Route(s) of Entry: | Inhalation? <input type="checkbox"/> | Skin? <input checked="" type="checkbox"/> | Ingestion? <input checked="" type="checkbox"/> |
| Health Hazards (Acute & Chronic) | Inhalation: No data found Skin Contact: May cause irritation and sensitization with rashes and skin eruptions. May be absorbed through the skin. Repeated and prolonged contact may cause sensitization dermatitis and symptoms of ingestion. contact: May cause irritation, pain and temporary corneal injury. Ingestion: May be harmful if ingested. | | |
| Carcinogenicity | NTP? <input type="checkbox"/> | IARC? <input type="checkbox"/> | OSHA? <input type="checkbox"/> |
| Signs & Symptoms of Exposure | See Health Hazards | | |
| Medical Conditions Generally Aggravated By Exposure | None found | | |
| Emergency and First Aid Procedures | Eyes: Rinse immediately with plenty of water for at least 15 minutes. Seek medical advice. Skin: Flush immediately with plenty of water for at least 15 minutes. Remove any contaminated clothing. Inhalation: Remove to fresh air. Ingestion: Call a physician immediately. | | |

• Precautions for Safe Handling and Use

| | |
|---|--|
| Steps to Be Taken in Case Material is Released or Spilled | Contain spill. Pick up with absorbent material. |
| Waste Disposal Method | Dispose of absorbed material according to Federal, State and Local regulations. |
| Precautions to Be Taken in Handling and Storing | Keep container tightly closed. Store in original container. Keep out of the reach of children. |
| Other Precautions | None Known |

• Control Measures

| | |
|--|--|
| Respiratory Protection | Not necessary in a well ventilated area. |
| Ventilation | Use in a well ventilated area. |
| Protective Gloves | Appropriate gloves to prevent contact |
| Eye Protection | Splash proof glasses or goggles. |
| Other Protective Clothing or Equipment | As necessary to prevent contact |
| Work/Hygienic Practices | Practice good sanitary habits after handling (ie wash hands) |

Material Safety Data Sheet

For Product(s): 162

Rev. 04/15/03

Identity

Pond Care Ammonia Test Solution #2



Aquarium Pharmaceuticals, Inc.
50 E Hamilton Street
P.O. Box 218
Chalfont PA 18914

General Info. (215)822-8181
For Poison Control Information,
please contact your regional
Poison Control Center

• Hazardous Ingredients/Identity Information

| Hazardous Components | OSHA PEL | ACGIH TLV | Other Limits | % |
|------------------------------------|----------|-----------|--------------|-----|
| Sodium Hydroxide CAS# 1310-73-2 | 2 mg/m3 | 2 mg/m3 | - | <10 |
| Sodium Hypochlorite CAS# 7681-52-9 | NA | NA | - | <1 |

• Physical/Chemical Characteristics

| | | | |
|-------------------------|---------------------------------|---|----------------|
| Boiling Point | Not determined | Specific Gravity (H ₂ O = 1) | Not determined |
| Vapor Pressure (mm Hg.) | Not determined | Melting Point | Not determined |
| Vapor Density (Air = 1) | Not determined | Evaporation Rate (Butyl Acetate = 1) | Not determined |
| Solubility in Water | Freely soluble | | |
| Appearance and Odor | Clear liquid with chlorine odor | | |

• Fire and Explosion Hazard Data

| | | | | | | |
|------------------------------------|---|------------------|-----|----|-----|----|
| Flash Point (Method Used) | Not Determined | Flammable Limits | LEL | NA | UEL | NA |
| Extinguishing Media | Not expected to be flammable. Use appropriate media to fight underlying fire | | | | | |
| Special Firefighting Procedures | Wear appropriate protective clothing to prevent contact with skin and eyes. Wear a SCBA to prevent contact with thermal decomposition products. | | | | | |
| Unusual Fire and Explosion Hazards | Sodium Hypochlorite solutions decompose when heated. Decomposition products may cause containers to rupture or explode. | | | | | |

• Reactivity Data

| | | | |
|---------------------------------------|--|---------------------|----|
| Stability | Unstable <input type="checkbox"/> | Conditions to Avoid | NA |
| | Stable <input checked="" type="checkbox"/> | | |
| Incompatibility (Materials to Avoid) | Heavy metals, reducing agents, organics, ether, ammonia, acids | | |
| Hazardous Decomposition or Byproducts | Vigorous reaction possible with organic materials or oxidizing agents. | | |
| Hazardous | May Occur <input type="checkbox"/> | Conditions to Avoid | NA |

Polymerization Will Not Occur ☒

• Health Hazard Data

Route(s) of Entry: Inhalation? ☒ Skin? ☒ Ingestion? ☒

Health Hazards (Acute & Chronic) Eye contact: Causes severe eye burns.
Skin contact: Causes skin irritation and burns.
Inhalation: Causes irritation of upper respiratory tract.
Ingestion: Harmful if swallowed. Causes mouth and gastrointestinal tract burns, severe pain, nausea, vomiting, diarrhea and shock.

Carcinogenicity NTP? ☐ IARC? ☐ OSHA? ☐

Signs & Symptoms of Exposure See Health Hazards.

Medical Conditions Generally Aggravated By Exposure None known

Emergency and First Aid Procedures Eyes: Rinse immediately with plenty of water for at least 15 minutes. Seek medical advice.
Skin: Flush immediately with plenty of water for at least 15 minutes. Remove any contaminated clothing.
Inhalation: Remove to fresh air.
Ingestion: DO NOT INDUCE VOMITING. If conscious, give victim 2-4 cups of milk or water. Call a physician immediately.

• Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled Contain spill. Pick up with absorbent material.

Waste Disposal Method Dispose of absorbed material according to Federal, State and Local regulations.

Precautions to Be Taken in Handling and Storing Keep container tightly closed. Store in original container. Keep out of the reach of children.

Other Precautions None known.

• Control Measures

Respiratory Protection None required if used in a well ventilated area.

Ventilation Use in well ventilated area

Protective Gloves Appropriate gloves to prevent contact

Eye Protection Splash proof glasses or goggles.

Other Protective Clothing or Equipment As necessary to prevent contact.

Work/Hygienic Practices Practice good sanitary habits after handling (ie wash hands)

Material Safety Data Sheet

For Product(s): 161

Rev. 10/14/98

Identity

Freshwater Nitrite Test Solution



Aquarium Pharmaceuticals, Inc.
50 E Hamilton Street
P.O. Box 218
Chalfont PA 18914

General Info. (215)822-8181
For Poison Control Information,
please contact your regional
Poison Control Center

• Hazardous Ingredients/Identity Information

| Hazardous Components | OSHA PEL | ACGIH TLV | Other Limits | % |
|----------------------------------|----------|-----------|--------------|---|
| Hydrochloric Acid CAS# 7647-01-0 | NA | NA | NA | - |

• Physical/Chemical Characteristics

| | | | |
|-------------------------|---|---|----|
| Boiling Point | NA | Specific Gravity (H ₂ O = 1) | NA |
| Vapor Pressure (mm Hg.) | NA | Melting Point | NA |
| Vapor Density (Air = 1) | NA | Evaporation Rate (Butyl Acetate = 1) | NA |
| Solubility in Water | Soluble | | |
| Appearance and Odor | Light amber colored solution with no odor | | |

• Fire and Explosion Hazard Data

| Flash Point (Method Used) | NA | Flammable Limits | LEL | NA | UEL | NA |
|------------------------------------|--|------------------|-----|----|-----|----|
| Extinguishing Media | Use appropriate media to fight underlying fire | | | | | |
| Special Firefighting Procedures | NA | | | | | |
| Unusual Fire and Explosion Hazards | None known | | | | | |

• Reactivity Data

| | | | |
|---------------------------------------|--|---------------------|----|
| Stability | Unstable <input type="checkbox"/> | Conditions to Avoid | NA |
| | Stable <input checked="" type="checkbox"/> | | |
| Incompatibility (Materials to Avoid) | None known | | |
| Hazardous Decomposition or Byproducts | None known | | |
| Hazardous | May Occur <input type="checkbox"/> | Conditions to Avoid | NA |
| Polymerization | Will Not Occur <input checked="" type="checkbox"/> | | |

• Health Hazard Data

Route(s) of Entry: Inhalation? ☐ Skin? ☒ Ingestion? ☒

Health Hazards (Acute & Chronic) Test solution contains hydrochloric acid. May cause skin and eye irritation. No chronic effects known.

Carcinogenicity NTP? ☐ IARC? ☐ OSHA? ☐

Signs & Symptoms of Exposure Skin and eye irritation

Medical Conditions Generally Aggravated By Exposure None known

Emergency and First Aid Procedures Eyes: Flush with large amounts of water. Skin: Wash thoroughly with soap and water. Ingestion: May be harmful: seek medical attention immediately.

• Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled Absorb spill with chemically absorbant materials and place in waste container.

Waste Disposal Method Dispose of absorbant material at an approved landfill. Federal, State and Local regulations take precedence.

Precautions to Be Taken in Handling and Storing Store in original container and place in locked storage area. Keep out of reach of children.

Other Precautions Wash with soap and water after handling.

• Control Measures

Respiratory Protection Not required

Ventilation NA

Protective Gloves Impervious

Eye Protection Safety glasses

Other Protective Clothing or Equipment NA

Work/Hygienic Practices Practice good sanitary habits after handling (ie wash hands)

Material Safety Data Sheet

Rev. 1/17/97

Identity

Salt Level Test Solution #1



Aquarium Pharmaceuticals, Inc.
50 E Hamilton Street
P.O. Box 218
Chalfont PA 18914

General Info. (215)822-8181
For Poison Control Information,
please contact your regional
Poison Control Center

• Hazardous Ingredients/Identity Information

| Hazardous Components | OSHA PEL | ACGIH TLV | Other Limits | % |
|---|----------|-----------|---------------------------------|---|
| This ingredient is being withheld as a trade secret | NA | NA | (mist) 10 mg/m3 ACGIH TWA | - |

• Physical/Chemical Characteristics

| | | | |
|-------------------------|--------------------|---|---------------|
| Boiling Point | ~554° F 290° C | Specific Gravity (H ₂ O = 1) | ~1.2607 @25°C |
| Vapor Pressure (mm Hg.) | <1.0 @ 20°C | Melting Point | NA |
| Vapor Density (Air = 1) | ~3.1 | Evaporation Rate (Butyl Acetate = 1) | NA |
| Solubility in Water | Miscible | | |
| Appearance and Odor | Water white liquid | | |

• Fire and Explosion Hazard Data

| | | | | |
|------------------------------------|---|------------------|--------|--------|
| Flash Point (Method Used) | ~390°F 199°C | Flammable Limits | LEL NA | UEL NA |
| Extinguishing Media | Water fog, alcohol-resistant foam, CO ₂ , dry chemical | | | |
| Special Firefighting Procedures | Wear positive pressure self-contained breathing apparatus. | | | |
| Unusual Fire and Explosion Hazards | Autoignition temperature ~698°F 370°C | | | |

• Reactivity Data

| | | | |
|---------------------------------------|---|---------------------|-------------------------------|
| Stability | Unstable <input checked="" type="checkbox"/> | Conditions to Avoid | Avoid strong oxidizing agents |
| | Stable <input type="checkbox"/> | | |
| Incompatibility (Materials to Avoid) | Avoid oxidizing agents (such as sodium hypochlorite, hypochlorous acid) | | |
| Hazardous Decomposition or Byproducts | Acrolein | | |
| Hazardous | May Occur <input type="checkbox"/> | Conditions to Avoid | NA |
| Polymerization | Will Not Occur <input checked="" type="checkbox"/> | | |

• Health Hazard Data

| | | | |
|----------------------------------|---|--------------------------------|--|
| Route(s) of Entry: | Inhalation? <input type="checkbox"/> | Skin? <input type="checkbox"/> | Ingestion? <input checked="" type="checkbox"/> |
| Health Hazards (Acute & Chronic) | <p>Eye: may cause slight transient (temporary) eye irritation. Corneal injury is unlikely.</p> <p>Skin: prolonged or repeated exposure not likely to cause significant skin irritation. A single prolonged exposure is not likely to result in the material being absorbed through the skin in harmful amounts. The LD50 for skin absorption in rabbits is >10000 mg/kg. Repeated exposures may cause flaking and softening of skin.</p> <p>May be absorbed in potentially harmful amounts when applied in large quantities to severe burns (second or third degree) over large areas of the body as a part of a</p> | | |

cream or other topical application. Absorption under such circumstances can elevate serum osmolality and may result in osmotic shock.

Ingestion: single dose oral toxicity is low. The oral LD50 for rats is 17000 to 27200 mg/kg. Small amounts swallowed incidental to normal handling operations are not likely to cause injury. Swallowing amounts larger than that may cause injury. Signs and symptoms of exposure may be central nervous system effects and increased blood sugar levels.

Inhalation: At room temperature, vapors are minimal due to physical properties. If heated or sprayed as an aerosol, airborne material may cause upper respiratory irritation. The LC50 for 6 hours in rats was >4mg/liter.

Systemic Effects: Repeated excessive exposures may cause increased fat levels in blood. Observations in animals include kidney, liver and gastrointestinal effects with very large oral dose.

Did not cause cancer in long term animal studies.

Developmental/Reproductive: birth defects are unlikely. Exposures having no adverse effects on the mother should have no effect on the fetus. Reproductive effects seen in female animals are believed to be due to altered nutritional status resulting from extremely high doses in their diets. Similar effects have been seen in animals fed synthetic diets.

Mutagenicity: in vitro mutagenic studies were negative.

Carcinogenicity **NTP?** ☐ **IARC?** ☐ **OSHA?** ☐

Signs & Symptoms of Exposure See Health Hazards

Medical Conditions Generally Aggravated By Exposure None Known

Emergency and First Aid Procedures

Eyes: Flush eyes with plenty of water
 Skin: Wash off in flowing water or shower.
 Ingestion: Induce vomiting if large amounts are ingested.
 Consult medical personnel.
 Inhalation: Remove to fresh air if effects occur.
 Note to Physician: No specific antidote. Supportive care.
 Treatment based on judgment of the physician in response to reactions of the patient.

• Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled Small Spills: Cover with absorbent material, soak up and sweep into a drum.
 Large Spills: Dike around spill and pump into suitable containers.

Waste Disposal Method Reprocess, incinerate or dispose of in accordance with all local, state and federal requirements.

Precautions to Be Taken in Handling and Storing Store in original container. Keep out of reach of children. Practice reasonable care and caution.

Other Precautions NA

• Control Measures

Respiratory Protection For most conditions, no respiratory protection should be needed, however if the material is heated or sprayed, use an approved air-purifying respirator.

Ventilation Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.

Protective Gloves Recommended

Eye Protection Safety Glasses

Other Protective Clothing or Equipment NA

Work/Hygienic Practices Practice good sanitary habits after handling (ie wash hands)

Material Safety Data Sheet

Rev. 2/4/97

Identity

Salt Level Test Solution #2



Aquarium Pharmaceuticals, Inc.
50 E Hamilton Street
P.O. Box 218
Chalfont PA 18914

General Info. (215)822-8181
For Poison Control Information,
please contact your regional
Poison Control Center

• Hazardous Ingredients/Identity Information

| Hazardous Components | OSHA PEL | ACGIH TLV | Other Limits | % |
|---|----------------------------|--|--|---|
| Mercuric Nitrate Monohydrate CAS# 7783-34-8 | NA | 0.1 mg(Hg)/m ³ | NIOSH 0.05 mg (Hg)/m ³ | - |
| Nitric Acid CAS# 7697-37-2 | 2 ppm; 5 mg/m ³ | 2 ppm; 5.2 mg/m ³ ; 4 ppm STEL; 10 mg/m ³ STEL | 2 ppm; 5 mg/m ³ , 4 ppm STEL; 10 mg/m ³ STEL | |

• Physical/Chemical Characteristics

| | | | |
|-------------------------|---------------------------|---|----|
| Boiling Point | NA | Specific Gravity (H ₂ O = 1) | NA |
| Vapor Pressure (mm Hg.) | NA | Melting Point | NA |
| Vapor Density (Air = 1) | NA | Evaporation Rate (Butyl Acetate = 1) | NA |
| Solubility in Water | Freely Soluble | | |
| Appearance and Odor | Clear liquid with no odor | | |

• Fire and Explosion Hazard Data

| | | | | | | |
|------------------------------------|---|------------------|-----|----|-----|----|
| Flash Point (Method Used) | NA | Flammable Limits | LEL | NA | UEL | NA |
| Extinguishing Media | Water-spray, Carbon Dioxide, Dry Chemical | | | | | |
| Special Firefighting Procedures | Wear SCBA | | | | | |
| Unusual Fire and Explosion Hazards | None Known | | | | | |

• Reactivity Data

| | | | |
|-----------|--|---------------------|---|
| Stability | Unstable <input type="checkbox"/> | Conditions to Avoid | Mercuric Nitrate forms sensitive explosive product with acetylene, ethanol and phosphine. |
| | Stable <input checked="" type="checkbox"/> | | |

Incompatibility (Materials to Avoid)

Nitric acid reacts with over 150 chemical combinations. Refer to NFPA Fire Protection Guide for specifics. Reacts explosively with organic materials and combustibles.
Mercuric Nitrate reacts violently with hydrophosphoric acid, unsaturates, aromatics and Phosphites. Vigorous reaction with petroleum hydrocarbons. KCN, isobutene

Hazardous Decomposition or Byproducts

When Mercuric Nitrate is heated to decomposition it emits Hg and NOx. Nitric acid forms nitrogen oxides and nitrogen.

| | | | |
|----------------|--|---------------------|----|
| Hazardous | May Occur <input type="checkbox"/> | Conditions to Avoid | NA |
| Polymerization | Will Not Occur <input checked="" type="checkbox"/> | | |

• Health Hazard Data

Route(s) of Entry: Inhalation? ☐ Skin? ☐ Ingestion? ☒

Health Hazards (Acute & Chronic)

This product has not been tested as a whole.
 Mercuric Nitrate LD50 oral (rat) = 26 mg/kg
 Poisonous by ingestion, skin contact, intraperitoneal and subcutaneous routes. Inorganic mercury compounds are a general protoplasmic poison; after absorption it circulates in the blood and is stored in the liver, kidneys, spleen and bone. In industrial poisoning, the principal effect is upon the CNS and upon the mouth and gums. In slow poisoning, the salivation may be absent and the only complaint dryness of the throat and mouth. Tremor and psychic disturbances commonly seen in the slow form of poisoning. Severe skin and eye irritant. Corrosive to skin and eyes. Probably a mucous membrane irritant.
 Nitric Acid LD50 oral (rat) = 90 ml/kg
 Danger! Strong oxidizer. Contact with other material may cause a fire. Corrosive. Causes severe eye and skin burns. Causes severe digestive and respiratory tract burns. Causes severe eye burns. May cause irreversible eye injury. May cause severe skin irritation. Causes skin burns. May cause deep penetrating ulcers of the skin. Causes gastrointestinal tract burns. May cause perforation of the digestive tract. May be fatal if inhaled. Effects may be delayed. may cause irritaiton or the respiratory tract with burning pain in the nose and throat, coughing, wheezing, shortness of breath and pulmonary edema. Prolonged skin contact may cause dermatitis. Prolonged or repeated inhalation may cause nosebleeds, nasal congestion, erosion of the teeth, perforation of the nasal septum, chest pain and bronchitis. Prolonged or repeated eye contact may cause conjunctivitis.

Carcinogenicity NTP? ☐ IARC? ☐ OSHA? ☐

Signs & Symptoms of Exposure see Health Hazards

Medical Conditions Generally Aggravated By Exposure NA

Emergency and First Aid Procedures

Ingestion - If victim is conscious and alert, give 2-4 cupfuls of milk or water. DO NOT induce vomiting. Get medical attention immediately.
 Skin Contact - Flush with soap and water for at least 15 minutes while removing contaminated clothing and shoes. destroy contaminated shoes. Get medical attention. Eye
 Contact - Flush with plenty of water for at least 15 minutes occasionally lifting the upper and lower lids. Get medical attention. Do not allow vicitm to rub or keep eyes closed
 Inhalation - Get medical attention immediately.

• Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled

Absorb spill with inert material then place into a chemical waste container.

Waste Disposal Method

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

Precautions to Be Taken in Handling and Storing

Store in original container. Keep out of reach of children. Wash thoroughly after handling.

Other Precautions

NA

• Control Measures

Respiratory Protection

NA

Ventilation

NA

Protective Gloves

Impervious

Eye Protection

Safety glasses or more splash protection if necessary

Other Protective Clothing or Equipment

NA

Work/Hygienic Practices

Practice good sanitary habits after handling (ie wash hands)