Clidox-S[®] Activator

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

1.1 Product Identifier

Trade Name Clidox-S® Activator

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Product Use: See Technical Data Sheet

1.3 Details of the Supplier of the Safety Data Sheet

Manufacturer: Pharmacal Research Labs.,Inc.

562 Captain Neville Dr

Waterbury, CT 06705, USA

Information Phone Number: 203-755-4908, (800)-243-5350

E-mail info@pharmacal.com

1.4 Emergency Telephone Number

Emergency Spill Information CHEMTREC (USA): (800) 424-9300

IN CANADA CALL CANUTEC: (613) 996-6666

Worldwide: +01-813-248-0585

SDS Date of Preparation: May 04, 2020

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

GHS Classification

Skin Corrosive Category 1B Eye Damage Category 1

2.2 Label Elements



Contains: Glycolic Acid

Hazard Phrases

H314 Causes severe skin burns and eye damage

H315 Harmful to aquatic life.

Precautionary Phrases

P264 Wash thoroughly after handling.

P280 Wear protective gloves, protective clothing, eye protections and face protection.

P305+P351+P338+P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. Immediately call a POISON CENTER or doctor

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P363 Wash contaminated clothing before reuse.

P301+P330+P331+P310 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor. P304+P340+P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON

CENTER or doctor.

P406 Store in corrosive resistant container with a resistant inner liner.

P501 Dispose of contents / container in accordance with local / national regulations.

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2.3 Other Hazards:

None.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS# | EINECS# / | GHS/CLP Classification | % |
|---------------|---------|--------------|-----------------------------------|------|
| | | REACH | | |
| | | Registration | | |
| Glycolic Acid | 79-14-1 | 201-180-5 | Acute Toxicity Category 4 (H332) | 5-10 |
| | ,,,,,,, | 201 100 5 | Skin Corrosive Category 1B (H314) | |
| | | | Eye damage Category 1 (H318) | |

See Section 16 for further information on GHS Classification.

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures

Eye: Immediately flush eyes with plenty of water for at least 30 minutes while holding the eyelids apart. Get immediate medical attention.

Skin: Immediately flush skin with plenty of water for 20 minutes while removing contaminated clothing and shoes. Get immediate medical attention. Launder clothing before re-use. (Discard contaminated shoes).

Inhalation: Immediately remove victim to fresh air. If breathing is difficult, oxygen should be administered by qualified personnel. If breathing has stopped, administer artificial respiration. Get immediate medical attention.

Ingestion: Do NOT induce vomiting. Get immediate medical attention. If conscious, rinse mouth with a small amount of water and give one glass of water to dilute. Never give anything by mouth to an unconscious or convulsing person.

4.2 Most Important symptoms and effects, both acute and delayed:

Causes severe eye and skin irritation and burns. Inhalation of mists may cause mucous membrane and respiratory irritation and burns with possible pulmonary edema. Swallowing may cause burns to the mouth, throat and intestinal tract. Prolonged overexposure may cause damage to eyes, skin, lungs and teeth.

4.3 Indication of any immediate medical attention and special treatment needed: Immediate medical attention is required for all routes of exposures.

SECTION 5: FIRE FIGHTING MEASURES

5.1 Extinguishing Media:

Use media appropriate for the surrounding environment.

5.2 Special Hazards Arising from the Substance or Mixture

Unusual Fire and Explosion Hazards:

Not considered flammable or combustible but will burn under fire conditions.

Hazardous Decomposition Products: When heated, emits highly toxic and corrosive fumes of hydrogen compounds and hydrogen gas.

5.3 Special Protective Actions for Fire-Fighters:

Special Fire Fighting Procedures: Do not use heavy stream of water. Burning material may splatter surrounding area and spread fire.

Fire Fighting Equipment: As in any fire, wear positive pressure, self-contained breathing apparatus and full protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Evacuate spill area and keep unprotected personnel away. Do not breathe vapors or mists. Ventilate area. Prevent contact with the eyes, skin and clothing. Wear appropriate protective clothing. Keep away from heat, flames and high temperatures.

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6.2 Environmental Precautions:

Prevent run-off to sewers, streams or other bodies of water. Report spills and releases as required to appropriate authorities.

6.3 Methods and Material for Containment and Cleaning Up:

Dike and contain liquid. Carefully neutralize with dilute base such as soda ash. Exercise caution during neutralization since large amounts of heat may be generated. Collect neutralized liquid with an inert absorbent and place in appropriate containers for disposal. Wash spill area with water. Prevent spill from entering sewers and water courses. Report releases as required by local, state and federal authorities.

6.4 Reference to Other Sections:

Refer to Section 8 for protective equipment. Refer to Section 13 for disposal guidance.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for Safe Handling:

Prevent contact with the eyes, skin and clothing. Do not breathe vapors or mists. Wear protective clothing and equipment. Use only with adequate ventilation. Wash thoroughly with soap and water after handling. Keep containers closed when not in use. Wash clothing before re-use. If closed containers become heated, vent to release decomposition products (mainly oxygen under normal decomposition).

Always add acid to water- not water to acid. Adding water to acid generates heat and will cause dangerous boiling and splashing.

Do not reuse containers. Empty containers retain product residues and contaminants which can be hazardous. Follow all SDS precautions when handling empty containers.

7.2 Conditions for Safe Storage, Including any Incompatibilities

Store in a cool, dry, well ventilated area away from incompatible materials. Store in original container, keep container tightly closed and always replace covers. Store at room temperature. DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE.

7.3 Specific end use(s):

None

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters:

| Chemical Name | Exposure Limits | |
|---------------|------------------------|--|
| Glycolic Acid | None Established | |

8.2 Exposure Controls:

Engineering Controls: Use with adequate general or local exhaust ventilation to minimize exposure levels.

Eye and Face: Chemical safety goggles and face shield recommended.

Skin: Wear impervious gloves to prevent contact.

Respiratory: In operations where exposure is excessive or irritation is experienced, a NIOSH approved respirator with organic vapor cartridges or supplied air respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134 and good industrial hygiene practice.

Protective Clothing: Long-sleeved clothing and long pants recommended to avoid prolonged skin contact. Suitable washing facilities should be available in the work area.

Work Hygienic Practices: Remove contaminated clothing and launder before reuse. Wash hands with soap and water after handling product, or clothing containing residual material.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic Physical and Chemical Properties:

| Physical State: Liquid | Appearance: Clear liquid | | |
|--|--|--|--|
| Odor: Characteristic odor | Odor Threshold: Not determined | | |
| pH: 2 | Specific Gravity: 1.03 | | |
| Boiling Point: Not determined | Melting Point: Not determined | | |
| Vapor Pressure: Not determined | Water Solubility: Complete at 1 atm and 25°C (77°F) | | |
| Vapor Density: Not determined | Evaporation Rate: Not determined | | |
| Viscosity: Not determined | Pour Point: Not determined | | |
| Flash Point: Not determined | Flammable Limits: LEL: Not determined | | |
| Autoignition Temperature: Not determined | Flammable Limits: UEL: Not determined | | |
| Percent Volatile: Not determined | Flammability (solid/gas): Not applicable | | |
| Partition Coefficient: n-octanol/water: Not determined | Decomposition Temperature: Not determined | | |
| Explosive Properties: Not explosive | Oxidizing Properties: Not an oxidizer | | |

9.2 Other Information:

None

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

Not reactive

10.2 Chemical Stability:

Stable

10.3 Possibility of Hazardous Reactions:

Contact with reactive metals and strong oxidizing agents to produce hydrogen, oxides or nitrogen.

10.4 Conditions to Avoid:

Excessive heat and open flame.

10.5 Incompatible Materials:

Metal, glass, stoneware, alkali and strong concentrated acids.

10.6 Hazardous Decomposition Products:

When heated, emits highly toxic and corrosive fumes of hydrogen compounds and hydrogen gas.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:

Eye: Causes severe irritation and burns with pain, tearing, and redness. May cause permanent eye damage, vision impairment, and blurred vision.

Skin: Causes severe irritation and burns with redness, ulceration, pain and dermatitis. Prolonged skin exposure may cause destruction of the skin with impairment of the skin to regenerate at the site of contact.

Ingestion: Ingestion causes severe digestive tract irritation or burns to the mucous membranes of the mouth and esophagus with abdominal pain, nausea, vomiting, diarrhea, confusion, delirium and coma. Ingestion may be fatal.

Inhalation: Inhalation of vapors or mists may cause severe irritation and burns of the nose, throat and upper respiratory tract. Prolonged inhalation may cause pulmonary edema.

Chronic Toxicity: Prolonged or overexposure may cause damage to eyes, skin and mucous membranes. Repeated inhalation exposure may cause impairment of lung function and permanent lung damage. Ingestion of high concentrations may cause injuries to liver, kidneys and central nervous system.

Acute Toxicity Data:

Product ATE: Inhalation LC50: 36 mg/L

Glycolic Acid: Oral rat LD50: 2040 mg/kg, inhalation rat LC50: 3.6 mg/L/4 hr

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Skin corrosion/irritation: This product is classified as corrosive to the skin.

Eve damage/irritation: This product is classified as damaging to the eyes.

Respiratory Irritation: Product is expected to cause respiratory irritation.

Respiratory Sensitization: Not expected to be a sensitizer. None of the components of this product are classified as sensitizers.

Skin Sensitization: Not expected to be a sensitizer. None of the components of this product are classified as sensitizers.

Germ Cell Mutagenicity: Product is not classified as a mutagen.

Carcinogenicity: None of the components of this product are listed as carcinogens by OSHA, IARC, NTP, ACGIH and the EU

Reproductive Toxicity: Product is not classified as toxic to reproduction.

Specific Target Organ Toxicity:

Single Exposure: No data available

Repeat Exposure: No data available

Aspiration Hazard: This product is not classified as an aspiration hazard. None of the components of this product are aspiration hazards.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

Glycolic Acid: Pimephales promelas LC50: 164 mg/L/96 hr

12.2 Persistence and Degradability:

Glycolic Acid: Readily biodegradable – 78% in 11 days

12.3 Bioaccumulative Potential::

Not expected to bioaccumulate.

12.4 Mobility in Soil:

No data available.

12.5 Results of PBT and vPvB Assessment:

Not required.

12.6 Other Adverse Effects:

Not known

SECTION 13: DISPOSAL INFORMATION

13.1 Waste Treatment Methods

Disposal Method: Dispose in accordance with all local, state and federal regulations. DO NOT CONTAMINATE WATER, FOOD OR FEED BY DISPOSAL.

Empty Container: Remove product residue and dispose of container at an approved waste handling facility. **General Comments**:

(For containers equal to or less than 5 gallons):

Non-refillable container. Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then

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offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

(For containers greater than 5 gallons): Non-refillable container. Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

SECTION 14: TRANSPORT INFORMATION

| | 14.1 UN Number | 14.2 UN Proper Shipping Name | 14.3 Transport Hazard Class(s) | 14.4 Packing Group | 14.5 Environmental Hazards |
|--|----------------------|--|---|--------------------------|----------------------------------|
| US DOT (5 Gal Container and larger) | UN1760 | CORROSIVE LIQUID N.O.S. (Glycolic Acid) | 8 | III | Not applicable |
| US DOT (4/1 Gal Container and smaller) | | Disinfectant NOI (shipped as Limited Quantity) | | | |
| IMDG | UN1760 | CORROSIVE LIQUID N.O.S. (Glycolic Acid) | 8 | III | Not applicable |
| IATA | UN1760 | CORROSIVE LIQUID N.O.S. (Glycolic Acid) | 8 | III | Not applicable |

14.6 Special Precautions for User:

None

14.7 Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code:

Not determined

SECTION 15: REGULATORY INFORMATION

15.1 Safety, Health and Environment Regulations/Legislation Specific for the Substance or Mixture:

US Regulations:

EPA SARA 311/312 Hazard Classification: Acute Health

EPA SARA 313: This Product Contains the Following Chemicals Subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372): None

CERCLA Section 103: This product is not subject to CERCLA spill reporting requirements. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

California Proposition 65: This product is not known to contain chemicals regulated under Proposition 65.

US Toxic Substances Control Act (TSCA): All the components of this product are listed.

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15.2 Chemical Safety Assessment:

Not required

SECTION 16: OTHER INFORMATION

NFPA RATING (NFPA 704) - FIRE: 1 HEALTH: 3 INSTABILITY: 0

GHS Classification for Reference (See Sections 2 and 3):

H302 Harmful if swallowed

H314 Causes severe skin burns and eye damage

H318 Causes serious eye damage

Date of Current Revision: August 2, 2018

Revision Summary: Updated format and all sections to comply with REACH Regulations

Date of Previous Revision: June 29, 2016

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