

## SECTION I: PRODUCT IDENTIFICATION

**Product Name:** Bio-activated Base actosol ®  
 Calcium actosol®  
 Horticultural actosol®  
 Turf Booster actosol®  
 Micro-Nutrient actosol®  
 actosol ® Plus Ca & Fe MUP

**Synonyms Name:** N/A

**Product Use:** Soil amendments, Fertilizer

**Manufacturer:** ARCTECH, Inc. **Date Revised:** 01/25/2015

**Address:** 2348 Eastover Drive **Emergency Phone:** (703) 222-0280  
 Hwy 919  
 South Boston, VA 24592

## SECTION II: HAZARDS IDENTIFICATION

**Emergency Overview:** Caused eye and skin irritation. May cause respiratory or digestive tract irritation.

**OSHA Hazards:** Irritant

**GHS Classification:** Skin irritation Category 3 H316

**Hazard Pictogram:**



**GHS Label elements:** Warning

**Precautionary Statements:** p102 – Keep out of reach of children ·  
 P280- Wear protective gloves, protective clothing/ eye protection / face protection  
 P303 +P361 + P353 – IF ON SKIN (or hair): Remove / take off immediately all contaminated clothing, Rinse skin with water/ shower.

**Other Hazards:** No additional Information available

**Unknown acute toxicity (GHS US):** No data available

## SECTION III: Composition / information on ingredients

**Hazardous Component :** None  
 Contains Organic Material and non- Hazardous Plant Nutrients.

**CAS#:** N/A

## SECTION IV: First aid measures

**General:** Never give anything by mouth to an unconscious person. Consult doctor if person feels uncomfortable. Show the safety data sheet to the physician.

**Eyes:** Flush eyes with plenty of water for 15 minutes, occasionally lifting the upper and lower eyelids. Get medical help immediately.

**Skin:** Flush with plenty of water for 15 minutes. Remove the contaminated clothing and shoes.

**Ingestion:** Rinse mouth. Get medical advice.

**Inhalation:** Move to the fresh air immediately. If breathing is difficult, give oxygen.

## SECTION V: Firefighting measures

**Flash Point:** N/A

**Auto ignition temperature:** N/A

**Flammable limit:** Upper Lower  
 N/A N/A

**Flammability:** actosol ® is a non-flammable liquid. It does not support combustion.

**Extinguishing media:** Water spray, Carbon dioxide, dry chemical powder

**Special fire fighting procedure:** Use self contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

**Unspecified fire and explosive hazards:** None identified.

**Toxic gas produced:** Carbon dioxide, carbon monoxide, nitrogen oxide

**Explosion data:** Impact Static Discharge  
 None None

## SECTION VI: Accidental release measures

**General:** Use personal protective equipment as shown in Section 8

**Spills/ leaks:** Clean up spill immediately with absorbent material. Collect absorbed material in to suitable clean, dry, closed container for disposal. Wash spill site after material pick up is complete.

**SECTION VII: Handling and storage**

**Handling:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soaps and water before eating, drinking, or smoking, and again when leaving work.

**Storage:** Store in a dry, cool and well-ventilated place. Keep container closed when not in use.

**SECTION VIII: Exposure controls/ personal protection**

**General:** There are no substances with occupational exposure limit values.

**Hand protection:** Wear chemical resistant protective gloves.

**Eye protection:** Wear chemical goggles or safety glasses.

**Skin/ Body protection:** Wear appropriate protective clothing to prevent skin exposure.

**SECTION IX: Physical and chemical properties**

**Physical State:** Liquid

**Appearance/ color:** Black liquid

**Odor:** Odorless

**Odor Threshold:** No data available

**pH:** 6.5 ~ 11.0

**Melting point:** 20 F

**Boiling point:** 220 F

**Flash Point:** N/A

**Evaporation rate:** No data available

**Flammability (Solid, gas):** actosol is non-flammable liquid

**Upper/ lower explosive limit:** N/A

**Vapor pressure:** No data available

**Vapor density:** No data available

**Specific gravity:** 1.0 ~ 1.24

**Solubility in Water:** 100% soluble

**Auto-ignition Temperature:** N/A

**Decomposition Temperature:** No data available

**Viscosity:** No data available

**SECTION X: Stability and Reactivity**

**Stability:** Stable under recommended storage temperature and pressure.

**Reactivity:** Will not occur

**Polymerization:** Will not occur

**Incompatibilities:** With strong oxidizing agent

**Hazard combustion / decomposition products:** Carbon monoxide, carbon dioxide, ammonia, nitrogen oxide

**SECTION XI: Toxicological information**

**Acute Toxicity**

**Oral LD50:** No data available

**Inhalation LC50:** No data available

**Dermal LD50:** No data available

**Skin Corrosion/ Irritation:** No data available

**Serious Eye Damage/ Irritation:** No data available

**Respiratory/ Skin Sensitization:** No data available

**Symptoms of overexposure:** Dizziness and headache, nausea and vomiting, eye irritation

**Reproductive effects:** None established

**SECTION XII: Ecological considerations**

**Toxicity:** No data available

**Persistence and degradability:** No data available

**Bio accumulative potential:** No data available

**Mobility in soil:** No data available

**SECTION XIII: Disposal Considerations**

Dispose in accordance with federal, state, and local regulation

**SECTION IV: Transport information**

**Domestic (DOT):** Chemicals, n.o.s. (non-regulated)

**Shipping:**

**International (IMO):** Chemicals, n.o.s. (non-regulated)  
Marin Pollutants: No

**Air (ICAO):** Chemicals, n.o.s. (non-regulated)

**SECTION XV: Regulatory Information**

|                              |  |
|------------------------------|--|
| SARA Title III Hazards List: | Acute: No<br>Chronic: No<br>Flammability: No<br>Pressure: No<br>Reactivity: No |
| Extreme Hazardous Substance: | No   |
| CERCLA Hazardous Substance:  | No   |
| SAR313 Toxic Chemicals:      | No   |
| TSCA Inventory:              | No   |

**SECTION XVI: Other Information**

The above information, data and recommendations contained herein, are believed to be correct, but are not all inclusive, and shall be used only as a guide. ARCTECH shall not be held liable for any damage resulting from use, handling or contact with the above product. ARCTECH disclaims any warranties, expressed or implied with regard to the products supplied hereunder, their merchantability or fitness for any particular purpose.