

# D-BROWN

## SECTION I

**HARVARD CHEMICAL RESEARCH, INC.**  
**3595 ZIP INDUSTRIAL BLVD**  
**ATLANTA GA 30354**

Date: 10/10/11

Phone:

INQUIRY- (404)761-0657

EMERGENCY- (800)424-9300

HEALTH	1	0=Least
FLAMMABILITY	0	1=Slight
REACTIVITY	0	2=Moderate
		3=High
		4=Extreme

## SECTION II HAZARDOUS INGREDIENTS/INFORMATION

HAZARDOUS COMPONENTS	CAS#	OSHA / PEL	ACGIH / TLV	OTHER / STEL	SK
CITRIC ACID	5949-29-1	NOT EST.	NOT EST.		

## SECTION III -PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: >212<sup>o</sup>F

Vapor Pressure (mm Hg): ND

Vapor Density (Air=1): >1

Solubility in Water: COMPLETE

Appearance and odor: Clear liquid with lemon odor.

Specific Gravity (H2O=1): 1.21

Melting Point: ND

Evaporation Rate:(Butyl Acetate=1) <1

## SECTION IV-FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used):NONE Flammable Limits:LEL: N/A UEL: N/A

Extinguishing Media: NA

Special Fire Fighting Procedures: Firefighters should wear self-contained breathing apparatus

Explosion Hazards: NONE

## SECTION V-REACTIVITY DATA

Stability: Stable

Incompatibility (Materials to Avoid): strong alkalis.

Hazardous Decomposition or Byproducts: Heat, carbon dioxide, and carbon monoxide.

Hazardous Polymerization: Will not occur.

## SECTION VI-HEALTH HAZARD DATA

Health Hazards (Acute and Chronic): NONE KNOWN

Routes of Entry, Signs of Exposure, and Symptoms of Exposure:

SKIN and EYES: Severe irritant to eyes.

INHALATION: Irritation and difficulty in breathing

INGESTION: Gastric pain and vomiting.

Medical Conditions Generally Aggravated by Exposure: Unknown

Carcinogenic: NONE

Emergency and First Aid Procedures:

SKIN & EYE CONTACT: Rinse skin with clear water. For eye contact immediately flush with clear running water for 15 minutes. Get medical attention.

INHALATION: Remove to fresh air. If breathing does not return to normal, get medical attention.

INGESTION: Immediately drink large quantities of water. Get medical attention.

## SECTION VII-PRECAUTIONS FOR SAFE HANDLING AND USE

SPILLS: PH adjust and dispose in accordance with federal and state and local regulations.

Handling and Storing: Keep container closed when not in use. Do not freeze. Follow label instructions.

Other Precautions: Keep this and all chemicals out of the reach of children.

## SECTION VIII-CONTROL MEASURES

Respiratory Protection (Specify Type): For exposure above established limits (see section II) use NIOSH/MSMA approved dust/mist mask.

Ventilation: Mechanical Recommended.

Protective Gloves: Rubber or neoprene.

Eye Protection: Chemical goggles with side shields.

Other Protective Clothing or Equipment: Drenching safety shower and eye wash station.

## SECTION IX-ADDITIONAL INFORMATION

ENVIRONMENTAL

BIODEGRADABILITY: BIODEGRADABLE.

SARA TITLE III REPORTING REQUIREMENTS

SECTION 302, 304REPORTING NOT REQUIRED

311, 312REPORTING REQUIRED FOR INVENTORY ABOVE TPQ.

313REPORTING MAY BE REQUIRED FOR USERS IN MANUFACTURING SECTOR.

CERCLASAME AS SECTION 304