

THIS SDS COMPLIES WITH 29 CFR 1910.1200 (HAZARD COMMUNICATION STANDARD)

Section 1 Identification

PRODUCT IDENTITY: CHO™ Concrete Cleaner
PRODUCT USES: Concrete Cleaner

COMPANY IDENTITY: Butterfield Color
COMPANY ADDRESS: 625 W Illinois Ave.
COMPANY CITY: Aurora, IL 60506
COMPANY PHONE: 1-630-906-1980
EMERGENCY PHONES: CHEMTREC: 1-800-424-9300 (USA)
CANUTEC: 1-613-996-6666 (CANADA)

Section 2, Hazard(s) identification



Warning

GHS07

2.1 HAZARD STATEMENTS: (CAT = Hazard Category)

H100s = General, H200s = Physical, H300s = Health, H400s = Environmental

H319 – Causes Serious Eye Irritation

2.2 PRECAUTIONARY STATEMENTS:

P100s = General, P200s = Prevention, P300s = Response, P400s = Storage, P500s = Disposal

P264 - Wash exposed skin thoroughly after handling

P280 - Wear eye protection

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337+P313 - If eye irritation persists: Get medical advice/attention

SEE SECTIONS 8, 11 & 12 FOR TOXICOLOGICAL INFORMATION.

Section 3, Composition / Information on Ingredients

MATERIAL	CAS#	EINECS#	WT %
Citric Acid	77-92-9	201-069-1	>99%

TRACE COMPONENTS: Trace ingredients (if any) are present in < 1% concentration. None of the trace ingredients contribute significant additional hazards at the concentrations that may be present in this product. All pertinent hazard information has been provided in this document, per the requirements of the Federal Occupational Safety and Health Administration Standard (29 CFR 1910.1200), U.S. State equivalents, and Canadian Hazardous Materials Identification System Standard (CPR 4).

Section 4, First Aid Measures

4.1 MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE & DELAYED:
See Section 11 for symptoms/effects, acute & delayed.

4.2 GENERAL ADVICE:

First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists, refer to Section 8 for specific personal protective equipment.

4.3 EYE CONTACT:

If this product enters the eyes, open eyes while under gently running water. Use sufficient force to open eyelids. "Roll" eyes to expose more surface. Minimum flushing's for 15 minutes. Seek immediate medical attention.

4.4 SKIN CONTACT:

If the product contaminates the skin, wash with soapy water.

4.5 INHALATION:

After high vapor exposure, remove to fresh air.

4.6 SWALLOWING:

If swallowed, CALL PHYSICIAN OR POISON CONTROL CENTER FOR MOST CURRENT INFORMATION. If professional advice is not available, give two glasses of water to drink. DO NOT INDUCE VOMITING. Never induce vomiting or give liquids to someone who is unconscious, having convulsions, or unable to swallow. Seek immediate medical attention.

4.7 NOTES TO PHYSICIAN:

There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient. Any material aspirated during vomiting may cause lung injury. Therefore, emesis should not be induced mechanically or pharmacologically. If it is considered necessary to evacuate the stomach contents, this should be done by means least likely to cause aspiration (such as: Gastric lavage after endotracheal intubation).

Section 5, Fire Fighting Measures

5.1 FIRE & EXPLOSION PREVENTIVE MEASURES:

The material is non-flammable and will not support combustion.

If involved in a fire, use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

5.2 SUITABLE (& UNSUITABLE) EXTINGUISHING MEDIA:

Foam, Dry Powder, Carbon Dioxide, Water Spray, Sand

5.3 SPECIAL PROTECTIVE EQUIPMENT & PRECAUTIONS FOR FIRE FIGHTERS:

NA.

5.4 SPECIFIC HAZARDS OF CHEMICAL & HAZARDOUS COMBUSTION PRODUCTS:

NA

Section 6, Accidental Release Measures

6.1 SPILL AND LEAK RESPONSE AND ENVIRONMENTAL PRECAUTIONS:

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

6.2 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, EMERGENCY PROCEDURES:
A disposal dusk mask can be used to prevent excessive dust accumulation.

6.3 ENVIRONMENTAL PRECAUTIONS:
Prevent entry into sewers and public waterways.

6.4 METHODS AND MATERIAL FOR CONTAINMENT & CLEAN-UP:
Pick up material and reuse as needed.

Section 7, Handling and Storage

7.1 PRECAUTIONS FOR SAFE HANDLING:
Standard work gloves, disposable dust mask to control excessive dust.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:
Store in a cool, dry location. Isolate from strong bases and oxidizers.

Section 8, Exposure Controls / Personal Protective Equipment

8.1 EXPOSURE LIMITS: MATERIAL

HAZARDOUS COMPONENTS	ACGIH mg/M3	NIOSH mg/M3	OSHA mg/M3
Citric Acid	NL	NL	NL

8.2 APPROPRIATE ENGINEERING CONTROLS: RESPIRATORY EXPOSURE CONTROLS

Maintain airborne contaminant concentrations below exposure limits given above. If respiratory protection is needed, use only protection authorized in 29 CFR 1910.134, European Standard EN 149, or applicable State regulations.

EMERGENCY OR PLANNED ENTRY INTO UNKNOWN CONCENTRATIONS OR IDLH CONDITIONS
NA.

VENTILATION

LOCAL EXHAUST: If Necessary MECHANICAL (GENERAL): If Necessary
SPECIAL: None OTHER: None

Please refer to ACGIH document, "Industrial Ventilation, A Manual of Recommended Practices", most recent edition, for details.

8.3 INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT:

EYE PROTECTION:
Safety glasses.

HAND PROTECTION:
Use standard cloth work gloves.

BODY PROTECTION:
Coveralls, are generally acceptable, depending on the task.

WORK & HYGIENIC PRACTICES:
Provide readily accessible eye wash stations & safety showers. Wash at end of each shift & before eating, smoking or using the toilet. Remove clothing that becomes contaminated.

Section 9, Physical & Chemical Properties

Physical state : Solid
Appearance : White powder or lumps.
Molecular mass : 192.12 g/mol
Color : white.
Odor : Odorless.
Odor threshold : No data available
pH : 1.7 10% solution
Relative evaporation rate (butylacetate=1) : No data available
Melting point: 153 °C
Freezing point: No data available
Boiling point: 175 °C
Flash point: No data available
Self ignition temperature: No data available
Decomposition temperature: 175 °C
Flammability (solid, gas) : No data available
Vapor pressure: No data available
Relative vapor density at 20 °C: No data available
Relative density: No data available
Density: 1.665 g/cm³
Solubility: Soluble in water. Soluble in ethanol. Soluble in ether.
Water: 59.2 %
Log Pow : No data available
Log Kow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic: No data available
Explosive properties: No data available.
Oxidizing properties: None.
Explosive limits: No data available

Section 10, Stability & Reactivity

10.1 REACTIVITY & CHEMICAL STABILITY:
Stable under normal conditions.

10.2 POSSIBILITY OF HAZARDOUS REACTIONS & CONDITIONS TO AVOID:
NL.

10.3 INCOMPATIBLE MATERIALS:
Strong Oxidizing Agents, Unintentional contact with water.

10.4 HAZARDOUS DECOMPOSITION PRODUCTS:
NL.

10.5 HAZARDOUS POLYMERIZATION:
Will not occur.

Section 11, Toxicological Information

11.1 ACUTE HAZARDS

Acute toxicity: Not classified

Citric Acid, Anhydrous (\f)77-92-9

LD50 oral rat 5400 mg/kg

Skin corrosion/irritation : Not classified

pH: 1.7 10% solution
Serious eye damage/irritation : Causes serious eye irritation.

pH: 1.7 10% solution

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified .Based on available data, the classification criteria are not met

Carcinogenicity : Not classified

Reproductive toxicity : Not classified based on available data, the classification criteria are not met

Specific target organ toxicity (single exposure): Not classified

Specific target organ toxicity (repeated exposure)

Not classified based on available data, the classification criteria are not met

Aspiration hazard : Not classified based on available data, the classification criteria are not met

Potential Adverse human health effects and symptoms based on available data, the classification criteria are not met.

Symptoms/injuries after inhalation: May cause respiratory irritation.

Symptoms/injuries after skin contact: Slight irritation.

Symptoms/injuries after eye contact: Causes serious eye irritation.

Symptoms/injuries after ingestion: Nausea, vomiting diarrhea.

Chronic symptoms: Affection/discoloration of the teeth.

Primary irritation to eyes, redness, tearing, blurred vision.

Wash thoroughly after handling with soap and water.

11.12 INHALATION:
Irritates respiratory tract.

11.13 SWALLOWING:
Harmful if swallowed. Swallowing can cause abdominal irritation, nausea, vomiting & diarrhea.

11.2 SUBCHRONIC HAZARDS/CONDITIONS AGGRAVATED

11.21 CONDITIONS AGGRAVATED
NL

11.3 CHRONIC HAZARDS

11.31 No recognized chronic hazards

11.4 MAMMALIAN TOXICITY INFORMATION

No recognized unusual toxicity to plants and animals

Section 12, Ecological Information

12.1 ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

No recognized unusual toxicity to plants and animals recognized

12.3 EFFECT OF MATERIAL ON AQUATIC LIFE:

LC50 fishes 1 440 mg/l
EC50 Daphnia 1 1534 mg/l

12.4 MOBILITY IN SOIL

Mobility of this material has not been determined.

12.5 DEGRADABILITY

Will not degrade.

12.6 ACCUMULATION

Bioaccumulation of this product has not been determined.

Section 13, Disposal Considerations

Material may be picked up, reclaimed and reused.

Section 14, Transportation Information

MARINE POLLUTANT: No
DOT/TDG SHIP NAME: Non Regulated
DRUM LABEL: Non Regulated
IATA / ICAO: Non Regulated
IMO / IMDG: Non Regulated

Section 15, Regulatory Information

15.1 EPA REGULATION:
SARA SECTION 311/312 HAZARDS: Acute

All components of this product are on the TSCA list.
SARA Title III Section 313 Supplier Notification

SARA TITLE III INGREDIENTS
Acute

RISK AND SAFETY PHRASES

15.2 STATE REGULATIONS:

NA

15.3 INTERNATIONAL REGULATIONS
NA

15.4 CANADA: WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)
WHMIS Classification Class D Division 2 Subdivision B - Toxic material causing other toxic effects

Section 16, Other Information

16.1 HAZARD RATINGS:

HEALTH (NFPA): , HEALTH (HMIS): 1, FLAMMABILITY: 0, Reactivity: 0

16.2 EMPLOYEE TRAINING

Employees should be made aware of all hazards of this material (as stated in this SDS) before handling it.

16.3 SDS DATE: 5/29/15

Notice:

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Prepared By: HS&E Compliance Resources