

## 1. IDENTIFICATION

**Product Identifier**

**Product Name** CITROBRITE  
**Chemical Name** Acidic detergent solution

**Recommended use of the chemical and restrictions on use**

**Recommended use** Acidic cleaner for aluminum  
**Restrictions on use** For industrial use only

**Supplier details**

West Penetone Inc. 11411-160 Street  
 Edmonton, AB,  
 T5M3T7  
 Tel: 780-454-3919

**Emergency Telephone Number**

(780) 454-3919 (Mon – Fri, 8 AM – 4:30 PM, Mountain time)  
 CANUTEC 1-613-996-6666 Internationally or 1-888-226-8832 – North America FOR 24 HOUR TRANSPORT EMERGENCY

## 2. HAZARDS IDENTIFICATION

**Classification**

Corrosive to metals	Category 1
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1

**Label Elements**

**DANGER**

**Hazard Statements**

May be corrosive to metals.  
 Causes severe skin burns and eye damage.  
 Causes serious eye damage.



**Precautionary Statements - Prevention**

Keep only in original container.  
 Do not breathe mists.  
 Wash face, hands, and any exposed skin thoroughly after handling.  
 Wear protective gloves/protective clothing/eye protection/face protection.

**Precautionary Statements - Response**

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.  
 IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water/shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or doctor/physician.  
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.  
 IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing. Immediately call a POISON CENTER or physician.  
 Absorb spillage to prevent material damage.

**Precautionary Statements - Storage**

Store locked up in a closed, corrosion resistant container.

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant according to local, provincial/federal regulations

**3. COMPOSITION/ INFORMATION ON INGREDIENTS**

Chemical Name	CAS No	Weight %
Sulfuric acid	7664-93-9	0.1 – 1*
Citric acid	77-92-9	15 – 40*
Lauryldimethylamine oxide	1643-20-5	0.5 – 1.5*

\*Actual concentration is withheld as a trade secret

**4. FIRST AID MEASURES**

- Ingestion:** Do not induce vomiting unless directed by medical personnel. Rinse mouth with water and drink 1 or 2 glasses of water and call a POISON CENTER or doctor/physician immediately. Do not give anything by mouth to an unconscious person.
- Skin contact:** Take off contaminated clothing and rinse skin with plenty of water. Get medical advice/attention. Wash any contaminated clothing before re-use.
- Inhalation:** If difficulties occur after mist/vapors/spray has been inhaled, remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician.
- Eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER or doctor/physician immediately.

**Most important symptoms and effects, both acute and delayed.**

Contact with eyes may cause serious irritation leading to discomfort or pain, redness, swelling, and blurred vision. Contact with skin may cause severe burns or irritation with local redness. Ingestion can lead to severe burns of the mouth and throat, as well as perforation of internal organs.

**Indication of any immediate medical attention and special treatment needed.**

Treat symptomatically.

**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media**

None.

**Specific hazards arising from the chemical.**

During fire, gases hazardous to health may be formed including oxides of carbon, nitrogen, and sulfur and other irritating gases.

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment, and emergency procedures**

Use personal protective equipment.

**Environmental Precautions**

Avoid discharge into drains/surface waters/groundwater.

**Methods and material for containment and cleaning up.**

Contain and solidify with inert absorbent materials. Keep in suitable, closed containers for disposal. Following product recovery, flush area with water. For large spills, stop flow of material, prevent product from entering drains, and pump off product where this is without risk and possible. Proceed as above.

## 7. HANDLING AND STORAGE

**Precautions for Safe Handling**

**Handling:** Avoid contact with skin and eyes. Do not inhale mists or spray.

**Conditions for safe storage, including any incompatibilities**

**Storage:** Store away from incompatible materials. Keep from freezing

**Incompatible Materials:** Strong oxidizing agents, and alkalis.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Control parameters**

Only constituents with exposure limits are listed. Any constituent not listed has no known exposure limit.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sulfuric acid CAS 7664-93-9	TWA: 0.2 mg/m <sup>3</sup>	Not Available	Not available

**Appropriate engineering controls**

**Engineering Controls:** Ensure adequate ventilation.

**Individual protection measures, such as personal protective equipment**

**Eye/face Protection:** Safety glasses with side shields or goggles. Use a face-shield where mode of handling increases risk of splashing.

**Skin and body protection:** Wear protective gloves and protective clothing.

**Respiratory Protection:** Wear respiratory protection if ventilation is inadequate.

**General Hygiene Considerations:** Handle in accordance with good industrial hygiene and safety practice. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:**

Colourless liquid

**ODOR:**

Mild, detergent

**ODOR THRESHOLD:**

Not available

**pH:**

1.5 – 2.5 (10% v/v solution in water)

**MELTING POINT / FREEZING POINT:**

Approx. 0°C

**BOILING POINT/BOILING RANGE:**

Approx. 100°C

**FLASH POINT:**

None

**EVAPORATION RATE, water = 1**

1

**FLAMMABILITY (SOLID, GAS):**

Not applicable

**VAPOR PRESSURE, mm Hg AT 20°C:**

Not available

**VAPOR DENSITY (Air = 1):**

Not available

**RELATIVE DENSITY AT 20°C:**

1.145 - 1.165

**SOLUBILITY IN WATER:**

Complete

**PARTITION COEFFICIENT, N-OCTANOL/WATER:**

Not available

**AUTO-IGNITION TEMPERATURE:**

None

**DECOMPOSITION TEMPERATURE:**

Not available

**VISCOSITY:**

Not available

**FLAMMABLE LIMITS:****UPPER:** Not applicable    **LOWER:** Not applicable

## 10. STABILITY AND REACTIVITY

**Reactivity**

Stable under normal conditions of storage and use. Product may react with aluminum, magnesium, zinc and other soft metal alloys with the generation of hydrogen.

**Chemical Stability**

Stable under normal conditions.

**Possibility of hazardous reactions**

Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to Avoid**

Store away from incompatible materials. Keep from freezing.

**Incompatible Materials**

Strong oxidizing materials, some metals, and alkalis.

**Hazardous decomposition products**

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition can lead to release of irritating gases and vapors.

## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity**

**ATE<sub>mix</sub>** – LD50 oral > 5000 mg/kg (rat), LD50 dermal > 2000 mg/kg (rabbit), LC50 inhalation

Not classified as an acutely toxic mixture.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sulfuric acid CAS 7664-93-9	2140 mg/kg (rat)	Not listed, corrosive to skin	Not listed
Citric acid CAS 77-92-9	>5400 mg/kg (estimated)	>2000 mg/kg (rabbit)	Not listed
Lauryl dimethylamine oxide CAS 1643-20-5	>2000 mg/kg (rat)	>2000 mg/kg (rabbit)	Not listed

**Information on likely sources of exposure**

<b>Ingestion</b>	Can cause severe burns to mouth and throat if ingested.
<b>Skin corrosion/irritation</b>	Can cause severe skin burns or skin irritation.
<b>Inhalation</b>	Can cause irritation and burns to the respiratory tract if mist is inhaled.
<b>Serious eye damage/irritation</b>	Can cause serious eye irritation or eye damage leading to temporary or permanent blindness.

**Delayed and immediate effects and chronic effects from short and long-term exposure**

<b>Respiratory or skin sensitization</b>	None known.
<b>Germ cell mutagenicity</b>	None known.
<b>Carcinogenicity</b>	None known.
<b>Reproductive toxicity</b>	None known.
<b>STOT - single exposure</b>	None known.
<b>STOT - single exposure</b>	None known.
<b>Aspiration Hazard</b>	None known.

**Symptoms related to the physical, chemical, and toxicological characteristics.**

Eye damage, skin burns or skin irritation.

## 12. ECOLOGICAL INFORMATION

**Persistence and degradability**

Expected to be readily biodegradable

**Bioaccumulative potential**

No information available.

**Mobility in soil**

No information available

**Other adverse effects**

Do not release untreated into natural waters.

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method**

Dispose of in accordance with local regulations.

**Contaminated Packaging**

Empty containers should be taken for local recycling, recovery, or waste disposal.

## 14. TRANSPORT INFORMATION

UN Number:	3265
UN Proper Shipping Name:	Corrosive Liquid, Acidic, Organic N.O.S (contains citric acid)
Transport Hazard Class(es)	
Class:	TDG: 8
	US DOT: 8
	IMDG: 8
Label(s):	8
Packing Group:	III
Marine Pollutant:	No

Special precautions for user: None established

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not determined.

**15. REGULATORY INFORMATION**

## Canada (DSL/NDSL)

All ingredients contained in this product are in compliance with the Canadian Environmental Protection Act and are listed on the DSL or are exempt.

## United States (TSCA)

All ingredients contained in this product are listed on the TSCA inventory or are exempt.

**16. OTHER INFORMATION**

<u>Preparation Date</u>	July 11, 2023
<u>Revision Date</u>	Not applicable
<u>Revision Note</u>	Not applicable

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Safety Data Sheet**