



MATERIAL SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT & COMPANY IDENTIFICATION:

Product Name: Citric Acid 50% Solution

Trade Name: Same

Supplier Name & Address:

Emergency Phone Number:

877-378-7745

FLOCHEM LTD.

R.R. #7

Guelph, ON, N1H 6J4

Effective Date: January 6, 2014

SECTION 2 - COMPOSITION/INFORMATION INGREDIENTS:

<u>Chemical</u>	<u>CAS #</u>	<u>%</u>	<u>LD50/LC50</u>
Citric Acid	77-92-9	50	Oral LD50 (Rat) 3gm/kg
Water	7732-18-5	50	Oral (Mouse) 5040 mg/kg

SECTION 3 - HAZARDS IDENTIFICATION:

Route of Entry:

(See Section 11 for Toxicological Information)

SECTION 4 - FIRST AID:

Eye Contact: Immediately flush eyes with cold, running water for at least 15 minutes, holding eyelids open. Seek medical attention immediately if irritation persists.

Skin Contact: Immediately wash skin with plenty of soap and water for a minimum of 15 minutes while removing contaminated clothing. Wash clothing prior to reuse. Seek medical attention immediately if irritation persists.

Ingestion: If product is ingested, have victim drink water or milk. **DO NOT** induce vomiting. If victim is unconscious, do not give anything by mouth. Seek medical attention immediately.

Inhalation: If product is inhaled, remove victim to fresh air. Aid in breathing with oxygen if necessary. If victim is unconscious give artificial respiration. Seek medical attention immediately.

SECTION 5 - FIRE FIGHTING MEASURES:

Flash Point: None – Will not burn.

Extinguishing Media: Use extinguishing media appropriate to surrounding fire.

Special Protective Equipment: Fire fighters should wear full protective clothing, including self-contained breathing equipment.

SECTION 6 - ACCIDENTAL RELEASE MEASURES:

Procedure for Spill Clean-Up: Contain area of the spill and restrict access. Absorb the liquid with an inert, dry material and place in an approved container for disposal. Prevent spilled material from entering sewers, water ways or drains. Wear protective clothing and breathing apparatus, if necessary.

SECTION 7 - HANDLING & STORAGE:

Handle any open containers with care. Avoid direct contact with eyes, skin or clothing. Do not inhale vapours. Do not store or use in the presence of open flame, heat or any source of ignition. Keep containers sealed when not in use and store in a cool, dry, well-ventilated area.

SECTION 8 - EXPOSURE CONTROLS:

Local exhaust ventilation is necessary to maintain exposures to within applicable limits. Ensure that eyewash stations and safety showers are in close proximity to work area.

SECTION 9 - PHYSICAL PROPERTIES:

Physical State: Clear white to yellow liquid

Specific Gravity: 1.24

Vapour Density: 0.62

Odour: Odourless to very slight sugar odour

Solubility: Completely miscible

Percent Volatile by Volume: 50

SECTION 10 - STABILITY & REACTIVITY:

Chemical Stability: Stable

Hazardous Polymerization: Will not occur

Incompatible Materials: Caustics

Conditions to Avoid: Reaction with Caustic can cause exothermic reaction.

SECTION 11 - TOXICOLOGICAL INFORMATION:

Routes of Exposure:

Eye Contact: Can cause eye irritation. Symptoms may include redness, swelling, hazy vision and tearing.

Skin Contact: May cause irritation with redness and possible swelling.

Inhalation: May be harmful if inhaled.

Ingestion: May be harmful if large amounts are swallowed.

SECTION 12 - ECOLOGICAL CONSIDERATIONS:

Not available.

SECTION 13- DISPOSAL CONSIDERATIONS:

Disposal of all waste must be done in accordance with all Municipal, Provincial and Federal regulations. Empty containers should be recycled or disposed of by an approved waste management facility.

SECTION 14 - TRANSPORT INFORMATION:

Proper shipping Name: Corrosive Liquid, Acidic, Organic, N.O.S. (*Citric Acid Solution*)

Class: 8, **PIN #:** UN3265, **Pkg. Group:** III

SECTION 15 - REGULATORY INFORMATION:

WHMIS Classification: E, Corrosive Material

SECTION 16 - OTHER INFORMATION:

Disclaimer:

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED TO THE BEST OF OUR KNOWLEDGE, TO BE ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS DATA OR THE RESULTS OBTAINED FROM THE USE THEREOF.

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