



Comet Chemical Company Ltd.
3463 Thomas Street Innisfil ,ON L9S 3W4
Tel: (705) 436-5580 Fax: (705) 436-7194

Material Safety Data Sheet

CITRIC ACID (ANHYDROUS OR MONOHYDRATE)

Revision Date: 2008/05/09

Section 1 : PRODUCT AND COMPANY IDENTIFICATION

Chemical family: Not available.

Product uses: Preservative.
Metal polish.
Ph adjuster.
Laundry soap.

Product name: Citric Acid (anhydrous or monohydrate)

Supplier: Comet Chemical Ltd.
3463 Thomas Street
Innisfil, On.
L9S 3W4.

Supplier 24 hour phone number: (705)436-5580 – weekdays from 8:00-5:00.
(800)567-7455 all other times (Newalta Services).

Section 2 : INGREDIENT INFORMATION

C.A.S.	CONCENTRATION %	Ingédient	V.L.E.	DL/50	CL/50
5949-29-1	100	CITRIC ACID MONOHYDRATE	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE
77-92-9	100	CITRIC ACID	NOT AVAILABLE	3000 MG/KG RAT ORAL 5040 MG/KG MOUSE ORAL	NOT AVAILABLE

Section 2A: ADDITIONAL INGREDIENT INFORMATION

Note: (supplier).
CAS# 5949-29-1: LD50 3300 mg/kg rat oral.

Section 3 : HAZARD IDENTIFICATION

Route of entry: Eye contact, skin contact, skin absorption, inhalation and ingestion.

Effects of acute exposure

Eye contact: Irritant.
May cause damage.

Skin contact: Slight irritation.

Skin absorption: Not expected to be absorbed in significant amounts.

Inhalation: Dust may be irritating.

Ingestion: No effects known. But ingestion is not recommended.

Effects of chronic exposure: May cause dermatitis.

Sensitization to product: No

Carcinogenic effects: Not listed as a carcinogen.

Reproductive effects: No effects reported.

Teratogenicity: Not available.

Mutagenicity: Not available.

Synergistic materials: None known.

Section 4 : FIRST AID MEASURES

Skin contact: Wash thoroughly with soap and water.
Remove contaminated clothing.
Consult a physician if irritation persists.

Eye contact: Flush eyes with clear, running water for 15 minutes while holding eyelids open. If irritation persists, consult a physician.

Inhalation: Remove victim to fresh air. If not breathing, qualified personnel should administer artificial respiration. Get medical attention.

Ingestion: Obtain immediate medical attention.
Do not induce vomiting, keep person warm, quiet.
Guard against aspiration of liquids into lungs.
If vomiting occurs, keep head below hips.
Never give anything by mouth to an unconscious person.
Drink milk.

Section 5 : FIRE FIGHTING MEASURES

Flammability: Not flammable.

Conditions of flammability: Surrounding fire.

Extinguishing media: Use media appropriate for primary source of fire.

Special procedures: Firefighters should wear adequate protective gear.
Self-contained breathing apparatus required.
Use water spray to cool fire exposed containers.

Auto-ignition temperature (°C): Not available.

Flash point (°C), method: Not available.

Lower flammability limit (% vol): Not available.

Upper flammability limit (% vol): Not available.

Explosion Data

Sensitivity to static discharge: Not sensitive.

Sensitivity to mechanical impact: Not sensitive.

Hazardous combustion products: Oxides of carbon (CO, CO₂).

Rate of burning: Not available.

Explosive power: Not available.

Section 6 : ACCIDENTAL RELEASE MEASURES

Leak/Spill: Dike area to prevent spreading.
Ventilate area.
Wear appropriate protective equipment.
Shovel into closeable containers.
Do not flush to sewer.

Section 7 : HANDLING AND STORAGE

Handling procedures and equipment: Keep away from heat, sparks, and open flame.
Avoid breathing vapors/mists.
Use adequate ventilation.
Wear personal protective equipment appropriate to task.
Avoid contact with skin, eyes and clothing.
Launder contaminated clothing prior to reuse.
Do not ingest.

Storage requirements: Store away from all sources of ignition.
Store away from incompatible materials.
Store in a cool, dry and well ventilated area.

Section 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

Precautionary Measures

Gloves/Type:



Rubber or vinyl.

Respiratory/Type: None required under normal use.
If TLV is exceeded.



NIOSH/MSHA approved filter mask for dust and mists.

Eye/Type:



Safety glasses with side-shields.



Chemical safety goggles.

Footwear/Type:



Impervious boots.

Clothing/Type: Long sleeve shirt, long trousers.



Impervious apron.

Other/Type: Eye wash facility should be in close proximity.
Emergency shower should be in close proximity.

Ventilation requirements: Mechanical ventilation is recommended.

Exposure limit of material: Not available for mixture, see the ingredients section.

Section 9 : PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid

Appearance & odor: White
Odourless.
Crystals.
Free flowing.

Odor threshold (ppm): Not available.

Vapour pressure (mmHg): Not available.

Vapour density (air=1): Not available.

Volatiles (%)

By volume: Not available.

**Evaporation rate
(butyl acetate = 1):** Not available.

Boiling point (°C): Decomposes @.
175°C

Freezing point (°C): (anhydrous).
153°C

pH: (weak aqueous solution).
2.2

Specific gravity @ 20 °C: 1.66 (anhydrous).
1.54 (monohydrate).

Solubility in water (%): ~ 600 g/L @ 20°C

Coefficient of water\oil dist.: Not available.

VOC: Not available.

Section 10 : STABILITY AND REACTIVITY

Chemical stability: Stable under normal conditions.

Conditions of instability: Contact with incompatible substances.

Hazardous polymerization: Will not occur.

Incompatible substances: Strong alkalis.
Phosphorus.
Nitric acid.
Plastics.
Perchloric acid.
Corrosive to aluminum.
Chromates.
Strong oxidizing agents.
Corrosive to steel.
Metal hydrides.
Corrosive to stainless steel.
Corrosive to brass.
Corrosive to copper.
Corrosive to iron.
Sodium metal.
Potassium metal.
Metallic nitrates.
Corrosive to lead.

Hazardous decomposition products: See hazardous combustion products.

Section 11 : TOXICOLOGICAL INFORMATION

LD50 of product, species & route: 3000 mg/kg rat oral (anhydrous).
3300 mg/kg rat oral (monohydrate).

LC50 of product, species & route: Not available.

Section 12 : ECOLOGICAL INFORMATION

Environmental toxicity: No data at this time.

Environmental fate: No data at this time.

Section 13 : DISPOSAL CONSIDERATIONS

Waste disposal: In accordance with municipal, provincial and federal regulations.
Landfill within all local, State and Federal laws.

Section 14 : TRANSPORT INFORMATION

TDG classification: Not regulated.

Special shipping information: See transportation information.

Section 15 : REGULATORY INFORMATION

WHMIS classification:

E



DSL status: Appears on DSL.

Section 16 : OTHER INFORMATION

Supplier MSDS date: 2008/05/09

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