



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

Material Safety Data Sheet

ACETIC ACID, 56% SOLUTION

Revision Date: 2008/04/30

Section 1 : PRODUCT AND COMPANY IDENTIFICATION

Chemical family: Mixture.

Product uses: Solvent.
Acidifying & neutralising, food additive.

Product name: Acetic Acid, 56% Solution

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 %	Ingrédient	V.L.E.	DL/50	CL/50
64-19-7	56	ACETIC ACID	10 PPM	3310 MG/KG RAT ORAL 1060 UL/KG RABBIT DERMAL	5620 PPM/1H MOUSE INHALATION

Section 2A: ADDITIONAL INGREDIENT INFORMATION

Note: (supplier).
CAS# 108-88-3: LD50 12,000 mg/kg rabbit dermal.
CAS# 67-64-1: LD50 3000 mg/kg rat oral.
CAS# 67-64-1: LC50 18,550 ppm inhalation.
CAS# 123-42-2: LC50 1500 ppm inhalation.

Section 3 : HAZARD IDENTIFICATION

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

Effects of acute exposure

Eye contact: May cause permanent damage.
Severe irritation.

Skin contact: May cause pain.
Causes burns.

Skin absorption: May be harmful if absorbed through the skin.
May be absorbed through the skin.

Inhalation: Irritant.
May cause loss of consciousness.
Shortness of breath/laboured breathing.
Coughing and choking.

Ingestion: May cause tissue damage.
May cause stomach pains and cramps.
May cause gastric perforation.
May cause burning of the mouth.
May cause gastrointestinal hemorrhage.

Effects of chronic exposure: Prolonged or repeated overexposure may cause drying and cracking of the skin (dermatitis).
May cause brown or yellow stains.

Sensitization to product: No

Carcinogenic effects: Not listed as a carcinogen.

Reproductive effects: Reproductive effects reported in animals.

Teratogenicity: Not available.

Mutagenicity: Experimental mutagen.

Synergistic materials: Not available.

Section 4 : FIRST AID MEASURES

Skin contact: Remove contaminated clothing.
Wash with mild soap and water.
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.
Give large quantities of water to drink.
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.

Additional information: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any inaccuracies.

Section 5 : FIRE FIGHTING MEASURES

Flammability: Combustible.

Conditions of flammability: Heat, sparks and open flames.

Extinguishing media: Dry chemical.
Foam
Water fog.
Water spray.
Do not use direct water jet.

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): (glacial acetic acid).
465°C

Flash point (°C), method: (56% acetic acid).
85°C

Lower flammability limit (% vol): (glacial acetic acid).
4%

Upper flammability limit (% vol): (glacial acetic acid).
16%

Explosion Data

Sensitivity to static discharge: Not sensitive.

Sensitivity to mechanical impact: Not sensitive.

Hazardous combustion products: Carbon monoxide (CO).
Smoke
Nitrogen oxides (NO_x).
Irritating fumes.

Rate of burning: Not available.

Explosive power: Not available.

Section 6 : ACCIDENTAL RELEASE MEASURES

Leak/Spill: Eliminate all sources of ignition.
Dike area to prevent spreading.
Ventilate area.
Wear appropriate protective equipment.
Ground handling equipment.
Pump to containers or soak up on inert absorbent.
Place in a closed container for disposal.


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.
Do not cut, grind, weld or drill on or near containers.
Launder contaminated clothing prior to reuse.

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: 


Butyl rubber.
Viton gloves.
Saranex gloves.
Responder gloves.

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



NIOSH approved organic vapors.

Eye/Type: Chemical safety goggles and face shield.

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: As needed to stay below TLV.

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

Section 9 : PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid.

Appearance & odor: Clear
Pungent odour.
Vinegar odor.
Colorless.

Odor threshold (ppm): 0.1 ppm

Vapour pressure (mmHg): @ 20°C (68°F).
17

Vapour density (air=1): 2

Volatiles (%)

By volume: Not available.

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

Boiling point (°C): 102°C

Freezing point (°C): -24

pH: 1

Specific gravity @ 20 °C: 1.062

Solubility in water (%): Complete.

Coefficient of water\oil dist.: Not available.

VOC: Not available.

Section 10 : STABILITY AND REACTIVITY

Chemical stability: Stable under normal conditions.

Conditions of instability: Heat

Hazardous polymerization: Will not occur.

Incompatible substances: Alkalies.
Strong oxidizing agents.

Hazardous decomposition products: See hazardous combustion products.

Section 11 : TOXICOLOGICAL INFORMATION

LD50 of product, species & route: 6900 mg/kg rat oral.
2000 mg/kg rabbit dermal.

LC50 of product, species & route: 10,000 ppm mouse inhalation.

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.
May be incinerated.

Section 14 : TRANSPORT INFORMATION

TDG classification: ACETIC ACID SOLUTION
UN2790
Class 8
PG II.



Special shipping information: See transportation information.

Section 15 : REGULATORY INFORMATION

WHMIS classification:

B3, E



DSL status: The substance(s) listed in section 2 appear on the Domestic Substances List.

Section 16 : OTHER INFORMATION

Supplier MSDS date: 2008/04/30

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