

## MATERIAL SAFETY DATA SHEET

**PRODUCT NAME: Acetic Acid 6%**

**AC100-06**

### SECTION 01: PRODUCT INFORMATION AND COMPANY INFORMATION

**MANUFACTURER:** Same as above  
**PREPARED BY:** Production Department  
**VERSION DATE:** 21-Jan-16  
**TELEPHONE NO.:** (519) 451-1614  
**EMERGENCY PHONE NO.:** (613) 996-6666  
**CHEMICAL FAMILY:** Not Available      **CHEMICAL FORMULA:** Not Applicable  
**MOLECULAR WEIGHT:** Not Applicable      **MATERIAL USE:** Please Refer to technical literature  
**SYNONYMS:**

### SECTION 02: COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients	Conc. Approx. %	C.A.S. #	LD/50 (RTE/SPEC)	LC/50 (RTE/SPEC)	TLV
Water	90-95	7732-18-5	11.4 mg/L	N.Av.	N.Av.
Acetic Acid	5-10	64-19-7	3310 mg/kg	16000 ppm (rat, 4 hours)	N.Av.

### SECTION 03: HAZARD IDENTIFICATION

#### ROUTE OF ENTRY

**Eyes:** Moderate irritant. Symptoms of exposure may include: eye irritation, burning sensation, pain, watering and/or change of vision.

**Skin:** Symptoms of exposure may include: Redness or discoloration, swelling, itching, burning or blistering of skin.

**Inhalation:** Causes moderate respiratory irritation. Symptoms of exposure may include; nasal discharge, hoarseness, coughing, chest pain and breathing difficulty. Accumulation of fluid in the lungs (pulmonary edema) may occur.

**Ingestion:** May cause irritation of the mouth, throat and stomach. Symptoms of exposure may include: Inflammation of mouth, throat, esophagus and/or stomach. Nausea, vomiting, loss of appetite, gastrointestinal irritation and/ or diarrhea.

### SECTION 04: FIRSTAID

**Skin Contact:** In case of contact, immediately flush skin with plenty of water for at least 15 minutes. Get medical attention. Remove contaminated clothing and laundry before reuse. Remove contaminated shoes and discard.

**Eye Contact:** In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

**Inhalation, Acute:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation (CPR) immediately. Get medical attention immediately.

**Ingestion:** Do NOT induce vomiting. Never give anything by mouth to an unconscious or convulsing person. Seek immediate medical attention. If vomiting occurs spontaneously, keep head below hips to

prevent aspiration of liquid into the lungs.

**Notes to physician:** Treatment based on sound judgment of physician and individual reactions of patient. Observe for pulmonary edema.

#### SECTION 05: FIRE EXPLOSION HAZARD AND FIRE FIGHTING MEASURES

<b>FLAMMABLE?</b>	No
<b>IF YES, UNDER WHICH CONDITIONS?</b>	
<b>FLASH POINT (TCC) (C):</b>	Not Available
<b>FLAMMABLE LIMITS:</b>	<b>LEL(% BY VOL.):</b> Not Available <b>UEL(% BY VOL):</b> Not Available
<b>AUTO IGNITION TEMPERATURE (C)</b>	Not Available
<b>EXTINGUISHING MEDIA</b>	Use DRY chemicals, CO2, alcohol foam or water spray. Fire fighters should wear full protective clothing, including self-contained breathing equipment.
<b>SPECIAL PROCEDURES:</b>	Isolate and restrict area access. Stop leak only if safe to do so. Stay upwind. Water run-off and vapour cloud may be corrosive. Containers exposed to intense heat from fires should be cooled with water to prevent vapour pressure build-up which could result in container rupture. Water may be used to flush spills away from fire exposures and to dilute spills to non-flammable mixtures. Water streams should not be directed to the liquid, as this will cause the liquid to boil and generate more vapour. Dike and collect water used to fight fire for neutralization before release.
<b>HAZARDOUS COMBUSTION PRODUCTS:</b>	Not Available
<b>UNUSUAL FIRE AND EXPLOSION HAZARDS</b>	Not Available
<b>SENSITIVITY TO STATIC DISCHARGE</b>	Not Available
<b>SENSITIVITY TO MECHANICAL IMPACT:</b>	Not Available

#### SECTION 06: ACCIDENTAL RELEASE MEASURES

**Leak and Spill Procedure:** Personal Precautionary Measures: Wear appropriate protective equipment. Isolate for 800 metres or 0.5 miles in all directions if tank, rail car, or tank truck is involved in fire. Evacuate downwind areas as conditions warrant to prevent exposure and to allow vapours or fumes to dissipate. Spills may expose downwind areas to toxic or flammable concentrations over considerable distances in some cases.  
Environmental Precautionary Measures: Prevent entry into sewers or streams, dike if needed.  
Procedure for Clean Up: Contain spill by diking. Neutralize the residue with sodium carbonate or crushed limestone. Absorb with an inert dry material and place in an appropriate waste disposal container. Flush area with water to remove trace residue.

#### SECTION 07: HANDLING AND STORAGE

##### Handling Procedures and Storage Requirements

**Handling:** Use with adequate ventilation. Keep the containers closed when not in use. Handle and open containers with care. Avoid breathing vapor. Avoid contact with eyes, skin and clothing. Do not cut, drill, grind, weld or perform similar operations on or near containers. Empty containers may contain hazardous product residues. Wash thoroughly after handling.  
**Storage:** Store in a cool, dry, well ventilated area, away from heat and ignition sources. Place away from incompatible materials. Store in accordance with good industrial practices. Keep containers tightly closed. Store out of direct sunlight and on an impermeable floor.

#### SECTION 08: PERSONAL PROTECTIVE EQUIPMENT / EXPOSURE CONTROLS

<b>GLOVES/TYPE:</b>	Appropriate chemical resistant gloves should be worn. Neoprene gloves..
<b>RESPIRATOR/TYPE:</b>	If exposure exceeds occupational exposure limits, use an appropriate NIOSH-approved respirator.
<b>EYE/TYPE:</b>	Chemical goggles; also wear a face shield if splashing hazard exists.
<b>OTHER/TYPE:</b>	Ensure that eyewash stations and safety showers are proximal to the work-station location
<b>ENGINEERING CONTROL</b>	Local exhaust ventilation as necessary to maintain exposures to within applicable limits.

#### SECTION 09: PHYSICAL AND CHEMICAL PROPERTIE

<b>PHYSICAL STATE/APPEARANCE:</b>	Liquid		
<b>ODOUR:</b>	Pungent	<b>ODOUR THRESHOLD:</b>	N. Av.
<b>VAPOUR PRESSURE (mm Hg @ 20C):</b>	N. Av.	<b>VAPOUR DENSITY (Air=1):</b>	N. Av.
<b>EVAPORATION RATE (Ether = 1):</b>	N. Av.	<b>SPECIFIC GRAVITY:</b>	1.01-1.055

<b>BOILING POINT (C):</b>	N. Av.	<b>FREEZING POINT (C)</b>	N. Av
<b>Ph (% SOLUTION):</b>	2.2	<b>% VOLATILE (WT):</b>	N. Av
<b>SOLUBILITY IN WATER (% W/W)</b>	N. Av		

**SECTION 10: STABILITY AND REACTIVITY****CHEMICALLY STABLE?** Stable**IF NO, UNDER WHICH CONDITIONS?****INCOMPATIBILITY WITH OTHER SUBSTANCES** Yes**IF YES, WITH WHICH ONES:** Alkalis. Oxidizing materials**SPECIAL REACTIVITY AND UNDER WHAT CONDITIONS** Avoid excessive heat, open flames and all ignition sources**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of carbon**SECTION 11: TOXICOLOGICAL INFORMATION****EXPOSURE LIMIT OF MATERIAL****LC 50 OF MATERIAL, SPECIES AND ROUTE** See sec 2**LD 50 OF MATERIAL, SPECIES AND ROUTE** See Sec 2**CARCINOGENICITY OF MATERIAL****REPRODUCTIVE EFFECTS:****IRRITANCY OF MATERIAL****SENSITIZING CAPABILITY OF MATERIAL****SYNERGISTIC MATERIALS****SECTION 12: ECOLOGICAL INFORMATION**

**AQUATIC TOXICITY** Ecotoxicity: The aquatic toxicity and biodegradation of acetic acid are expected to be influenced by its potential to lower pH.  
Degradation: Acetic acid will biodegrade readily if released to water (e.g., 5-Day BOD's 63-81%) or soil.  
The atmospheric photochemical degradation half-life is estimated to be 26.7 days. Bioaccumulation:  
The log n-octanol water partition coefficient for acetic acid is -0.17. This suggests that acetic acid has low potential to bioaccumulate.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**WASTE DISPOSAL:** Disposal of Waste Method: Disposal of all wastes must be done in accordance with municipal, provincial and federal regulations.  
Contaminated Packaging: Empty containers should be recycled or disposed of through an approved waste management facility.

**SECTION 14: TRANSPORT INFORMATION****TDG CLASSIFICATION** Class , Acetic Acid 6%**UN NUMBER:****PACKING GROUP:****Special Provisions for Transport****SECTION 15: REGULATORY INFORMATION**

**WHMIS CLASSIFICATION** D2B  
D2B TOXIC MATERIALS

**SECTION 16: OTHER INFORMATION**

**ABBREVIATIONS USED:** N.Av. = Not Available  
N.App. / N.Ap. = Not Applicable

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**SOURCES:** Supplier MSDS

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