



# VINEGAR

# MATERIAL SAFETY DATA SHEET

## 1: PRODUCT INFORMATION:

**PRODUCT NAME:** Vinegar.  
**USE:** Food ingredient.  
**MOLECULAR FORMULA:** CH<sub>3</sub>COOH  
**TDG CLASSIFICATION:** Not regulated.  
**PIN NUMBER:** n.a.  
**T.D.G. SHIPPING NAME:** n.a.  
**DISTRIBUTOR:** Baléco Inc.  
106-4850 St-Ambroise, Montréal QC H4C 3N8  
Téléphone: 514 933-1555 • baleco.ca  
**MANUFACTURER:** Reinhart Foods Limited.  
2050 Boul. Industriel, Chambly QC J3L 4V2  
Telephone: 705 428-2422  
**EMERGENCY NUMBER:** 705 428-2422

## 2: HAZARDOUS INGREDIENTS:

INGREDIENTS	CAS#	Range %	PIN	LC <sub>50</sub>	LD <sub>50</sub>
ACETIC ACID	64-19-7	4% - 9.9%	N.A.	N.A.	N.A.

## 3: PHYSICAL DATA:

**BOILING POINT (°C):** 101.1  
**VAPOR PRESSURE (mm Hg):** 16.9 @ 20°C.  
**VAPOR DENSITY (AIR = 1):** 2.1  
**PHYSICAL STATE:** Liquid  
**APPEARANCE & ODOUR:** Appropriate color and odor for the type of vinegar.

**SPECIFIC GRAVITY (H<sub>2</sub>O = 1):** 1.007-1.019°C.  
**% VOLATILE (Wt %):** 100%  
**FREEZING POINT (°C):** -3.3  
**SOLUBILITY IN WATER:** complete  
**pH (AS SUPPLIED):** 3 +/- 0.5  
**COEFFICIENT OF DISTRIBUTION WATER-OIL:** n.a.

## 4: FIRE AND EXPLOSION HAZARDS:

**IS THIS WHMIS CLASS B/CE?:** No.  
**FLASH POINT (TCC, °C):** n.a.\*  
\*no flash when 10% vinegar sample tested in tag closed cup tester.  
**LOWER EXPLOSION LIMIT:** n.a.  
**UPPER EXPLOSION LIMIT:** n.a.  
**EXTINCTION MEDIA:** Will not burn.

## 5: REACTIVITY DATA:

**CHEMICAL STABILITY:** Yes.  
**INCOMPATIBLE MATERIALS:** Strong oxidizing agents, strong bases.  
**POLYMERIZATION:** n.a.  
**HAZARDOUS DECOMPOSITION PRODUCTS:** None.  
**ECOLOGICAL INFORMATION:** Biodegrades readily under aerobic and anaerobic conditions. No tendency to bioaccumulate.

## 6: TOXICOLOGICAL PROPERTIES:

**ROUTE OF ENTRY:** Eyes, inhalation.

### EFFECTS OF ACUTE EXPOSURE:

**EYE:** Eye contact will cause eye irritation.  
**INHALATION:** Prolonged inhalation of vapours may cause irritation to respiratory tract.

**EFFECTS OF CHRONIC EXPOSURE:** n.a.

### EXPOSURE LIMITS:

PEL: 10 ppm acetic acid (25 mg/m<sup>3</sup>)

TLV: 10 ppm acetic acid (25 mg/m<sup>3</sup>)

for 8 hours

### SHORT TERM EXPOSURE LIMITS:

STEL: 15 ppm acetic acid (37 mg/m<sup>3</sup>)

TLV: 10 ppm acetic acid (25 mg/m<sup>3</sup>)

for 15 minutes

## 7: PREVENTATIVE MEASURES:

**ENGINEERING CONTROLS:** General ventilation.

**LEAK AND SPILL PROCEDURES:** If vinegar is spilled, water may be used to dilute. Dispose of waste material in accordance with local, provincial/state and federal requirements.

**HANDLING PROCEDURES:** Where contact with this material is likely, eye protection is recommended.

## 8: FIRST AID:

**EYES:** Flush immediately and thoroughly with water.

**INHALATION:** If exposed to excessive levels of vapours, bring to fresh air.

**INGESTION:** If swallowed in large quantities, water should be consumed to dilute. Do not induce vomiting. Do not give emetics or baking soda.

## 9: PREPARATION OF THE MSDS:

**DATE:** FEBRUARY 17th, 2012.

**PREPARED BY:** Reinhart Foods Limited technical services.

## 10: SPECIAL SHIPPING INFORMATION:

**DANGEROUS GOODS:** No.

**PIN #:** n.a.

**TECHNICAL SHIPPING NAME:** Acetic acid (diluted).

**PACKING GROUP:** n.a.

**TDGA CLASS:** n.a.

### Disclaimer

Information for this material safety data sheet was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the mandatory requirements of WHMIS. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this form. If user requires independent information on ingredients in this or any other material, we recommend contact with the Canadian Center for Occupational Health and Safety (CCOHS) in Hamilton, Ontario (1-800-263-8276) or CSST in Montreal (514-873-3990).