

1. IDENTIFICATION

IDENTIFIER (AS LABELED): 45% Pure Vinegar – Concentrated Industrial Grade (1 gallon)
RECOMMENDED USE/RESTRICTION: Cleaning, Home, Automatic
MANUFACTURER'S NAME: Belle Chemical
ADDRESS: 501 N. 22nd. St.
Billings, MT 59101
EMERGENCY PHONE: Belle Chemical LLC (406) 672-5899 [24hr]
BUSINESS PHONE: 877-522-2233

Health	2
Fire	0
Reactivity	0

2. HAZARD(S) IDENTIFICATION

HAZARD CLASSIFICATION: Skin Corrosion (1B)
Eye Damage (1)
SIGNAL WORD: Danger
HAZARD STATEMENT(S): Causes severe skin burns and eye damage. Harmful if swallowed.



SYMBOL(S):
PRECAUTIONARY STATEMENT(S): Do not breathe mist, spray or vapors. Wash exposed skin thoroughly after handling. Wear protective clothing when handling the product. If swallowed: rinse mouth and seek medical attention. If in eyes or on skin: Rinse area with plenty of water. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention after rinsing eyes, even if symptoms do not occur. If inhaled: remove to fresh air and keep comfortable for breathing. Call a physician or poison control.
HAZARDS NOT CLASSIFIED: Not Applicable
UNKNOWN ACUTE TOXICITY: Not Applicable

3. COMPOSITION/INFORMATION ON INGREDIENT(S)

CHEMICAL NAME	CAS #	% w/w	EXPOSURE LIMITS IN AIR					
			NIOSH		OSHA		NIOSH	
			TLV TWA	STEL	PEL	STEL	IDLH	REL
Vinegar	64-19-7	44-48	10 ppm	15 ppm	10 ppm	15 ppm	50 ppm	50 ppm

4. FIRST-AID MEASURES

INHALATION: Remove person to fresh air and keep comfortable for breathing. If irritation persists, contact POISON CONTROL or seek medical attention.
EYES: Hold eyelids open and flush with a steady stream of water for 20 minutes. Seek medical attention after rinsing.
SKIN: Wash affected area with soap and water. Contact POISON CONTROL or seek medical attention if irritation arises or persists.
INGESTION: Rinse mouth and immediately transport for medical attention. **DO NOT INDUCE VOMITING** unless directed by a medical professional. Call POISON CONTROL.

5. FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MATERIALS: Use extinguishing media applicable to the surrounding fire. Recommended to use fine water spray, normal foam or dry agent (carbon dioxide, dry chemical powder).
SPECIAL EQUIPMENT: Use water spray to cool containers. Wear full protective clothing and self-contained breathing apparatus (SCBA).
SPECIFIC HAZARDS: When heated to decomposition, this product may emit toxic fumes and carbon oxides.

6. ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK RESPONSE: Shut off all possible sources of ignition. Contain material and absorb with inert material. In some cases dilution with significant water may be required. Neutralization may be effective to stabilize large contained spills. Dispose of according to Federal, State and local regulations. Do not allow concentrated material to discharge into controlled waterways; contact local authorities. Wear PPE according to Section 8.

7. HANDLING and STORAGE

SAFE HANDLING: Wash hands after handling material. Do not eat, drink, or smoke while handling material. Do not get in eyes.
SAFE STORAGE: Store in cool, dry, well-ventilated area away from incompatible materials.

8. EXPOSURE CONTROLS - PERSONAL PROTECTION

ENGINEERING CONTROLS: Use with adequate ventilation
RESPIRATORY: NIOSH-approved respirator
EYE: Face shield and goggles

HAND: Hand protection made of compatible material

BODY: Appropriate for exposure or work environment

OTHER PROTECTIVE MEASURES: Eye wash fluid should be accessible in case of eye irritation due to exposure

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear amber liquid

PH: ≤ 2.35 (1M solution)

FLASH POINT: 119°F (Closed Cup)

UEL / LEL: Not Established

RELATIVE DENSITY: ~1.02

AUTO-IGNITION: Not Established

ODOR: Vinegar

MELT/FREEZE POINT: ~32°F

EVAPORATION RATE: Not Established

VAPOR PRESSURE: Not Established

SOLUBILITY(IES): Water

DECOMPOSITION TEMP: Not Established

ODOR THRESHOLD: 0.21 to 1.0 ppm

BOILING POINT/RANGE: 244°F

FLAMMABILITY: Not Established

VAPOR DENSITY: Not Established

PARTITION COEFFICIENT: Not Established

VISCOSITY: Not Established

10. STABILITY AND REACTIVITY

REACTIVITY: No specific test data related to reactivity available for this product or its ingredients.

CHEMICAL STABILITY: Stable under normal conditions

CONDITIONS TO AVOID: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

INCOMPATIBLE MATERIALS: Strong oxidizers, acids and bases

HAZARDOUS POLYMERIZATION: Will not occur

11. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: Toxic to animals and marine life from pH modification.

NTP/IARC SUSPECTED CARCINOGEN: Not suspected.

SYMPTOMS OF EXPOSURE: Pain, watering, redness in eyes. Respiratory tract irritation and coughing. Skin pain, irritation and blistering. Stomach pains if ingested.

TOXICITY ESTIMATE(S):	DERMAL (RAT):	1,060	mg/kg
	ORAL (RAT):	3,310	g/kg
	INHALATION (RAT):	11,000	mg/m ³

12. ECOLOGICAL INFORMATION

ECOTOXICITY: Toxic to aquatic life.

EC50 (Algae, 96hr): 73,400 µg/L

EC50 (Daphnia, 48hr): 65,000 µg/L

LC50 (Crustaceans, 48hr): 50.1 µg/L

LC50 (Fish, 96hr): 75,000 µg/L

PERSISTENCE AND DEGRADABILITY: Biodegradable

BIOACCUMULATIVE POTENTIAL: Product is biodegradable.

LogP_{ow} = -0.17

BCF = 3.16

MOBILITY IN SOIL: Not tested as a whole

OTHER ADVERSE EFFECTS: May cause adverse pH modification in aqueous ecological systems

13. DISPOSAL CONSIDERATIONS

SAFE HANDLING AND DISPOSAL: Waste disposal must be in accordance with appropriate Federal, State, and local regulations.

14. TRANSPORTATION INFORMATION

UN NUMBER/SHIPPING NAME: UN2790/ACETIC ACID (NOT FULLY REGULATED)

TRANSPORT HAZARD CLASS(ES): 8 (NOT FULLY REGULATED)

DOT: NOT REGULATED

PACKING GROUP: III

ENVIRONMENTAL HAZARDS: No

TRANSPORT IN BULK: Stow separated from bases, oxidizers, sources of heat or ignition.

SPECIAL PRECAUTIONS: None

15. REGULATORY INFORMATION

SARA 302: No requirements.

SARA 311/312: Acute

SARA 313: No requirements.

TSCA STATUS: All constituents.

CALIFORNIA PROPOSITION 65: Not found.

CERCLA (RQ): Acetic Acid (5000-lbs.)

STATE REGULATIONS: Acetic Acid: MA, NJ, NY, PA, RI

WHMIS: Constituents of this product are listed on EINECS

EUROPEAN INVENTORY: Constituents of this product are listed on EINECS

16. OTHER INFORMATION

The information and recommendations herein are taken from data contained in independent industry recognized references including NIOSH, OSHA, ANSI, and NFPA. No guarantee, express or implied, and no liability is assumed by Belle Chemical in conjunction with the use of this information.

DATE OF PREPARATION: 08/27/2019