




G.K. Chemical Specialties Co. Inc.
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SAFETY DATA SHEET (SDS)

PRODUCT NAME: G.K. PURE WHITE VINEGAR	
HEALTH HAZARD RATING:	(1)- LOW HAZARD NFPA Rating
FLAMMABILITY HAZARD RATING:	(0)- MINIMAL HAZARD
REACTIVITY HAZARD RATING:	(0)- MINIMAL HAZARD
PERSONAL PROTECTION:	B - (Safety glasses, Gloves,)
HAZARD ALERT SIGN:	

SECTION 1 – IDENTIFICATION	
PRODUCT IDENTIFIER	
PRODUCT NAME	G.K. PURE WHITE VINEGAR
MANUFACTURER'S NAME AND ADDRESS EMERGENCY PHONE NO.	G.K. Chemical Specialties Co. Inc. 90 Barbados Blvd. Scarborough, Ontario M1J 1K9 (416) 261-7182 / 905 427-7605/ 416-526-4037
SUPPLIER'S NAME AND ADDRESS EMERGENCY PHONE NO.	
CHEMICAL NAME	ACETIC ACID SOLUTION
CHEMICAL FAMILY	ACID
TRADE NAME AND SYNONYMS	NOT APPLICABLE
MATERIAL USE	COMMERCIAL, INSTITUTIONAL AND INDUSTRIAL CLEANING

G.K. Chemical Specialties Co. Inc. has compiled the information and recommendations contained in this Safety Data Sheet from sources believed to be reliable and to represent the most reasonable current opinion on the subject when the SDS was prepared. Although reasonable precautions have been taken in the preparation of the data contained herein, it is offered solely for your information, consideration and investigation.

G.K. Chemical Specialties Co. Inc. extends no warranty and assumes no responsibility as to the accuracy of the content or sufficiency of the information and expressly disclaims all liability for reliance thereon. This SDS provides guidelines for the safe handling of this product. It does not and cannot advise on all possible situations, therefore, your specific use of this product should be evaluated to determine if additional precautions are required. Individuals exposed to this product should read and understand this information and be provided pertinent training prior to working with this product.

G.K. Chemical Specialties Co. Inc. assumes no responsibility for personal injury or property damage to vendors, users or third parties caused by the material. Such vendors or users assume all risks associated with the use of the material.

INGREDIENTS. This SDS, under section of Ingredients, contains all ingredients listed under INGREDIENT DISCLOSURE LIST P.C. 1987-2719, 20/1/88 CANADA GAZETTE PART II VOL. 122, No 2 of HAZARDOUS PRODUCT ACT.

Percentage range of concentration of ingredients is expressed as percentage by weight of the total weight of the product. Ingredient List does not necessarily list all ingredients in the formulation and does not necessarily list all ingredient range of concentration, other than ingredients under the Disclosure List.

T.L.V. (units) or Threshold Limit Values refer to the limiting concentrations recommended by the Ministry of Labour. These values were adopted by the American Conference of Governmental Industrial Hygienists (A.C.G.I.H.). The figures refer to time-weighted average concentrations as P.P.M. (V/V) or mg/m³ for a normal working day or at any time for some materials.

"C.A.S REG. No." means the identification number assigned to a chemical substance by the Chemical Abstracts Service Division of the American Chemical Society.

"LC 50" means the concentration of a substance in air that when administered by means of inhalation over a specified length of time in an animal assay, is expected to cause the death of 50 per cent of a defined animal population.

"LD 50" means the single dose of a substance that, when administered by a defined route in an animal assay, is expected to cause death of 50 per cent of a defined animal population.

FLASH POINT. The minimum temperature at which a substance gives off flammable vapors which in contact with spark or flame will ignite.

NIOSH- National institute for occupational safety and health

STEL- Short term exposure limit

TWA- Time-weighted average

PEL- Permissible exposure limit

ACGIH- American conference of governmental industrial hygienist

OSHA- Occupational safety and health act

SECTION 2 – HAZARD IDENTIFICATION



Dangerous Goods: Class D. DIV. 2B

GHS CLASSIFICATION

Eye Irritation –Category 2A

Skin Irritation – Category 2

Skin sensitization- Category 1

HAZARDOUS SUBSTANCE (HSNO) CLASSIFICATION

CLASS D, DIV 2B

GHS Label Elements, including precautionary statements: Hazard Statements:

Signal word- DANGER

HAZARD STATEMENT

H315: Causes skin irritation

H317: May cause an allergic skin reaction

H319: Causes serious eye irritation

PREVENTION

P261- Avoid breathing dust/fumes/gas/mist/vapors/spray

P264: Wash skin thoroughly after handling

P280: Wear protective gloves/ protective clothing/ eye protection/ face protection

P405: Store locked up

RESPONSE

P305+P351+P338- IF IN EYES: Rinse cautiously with water for several minutes: Remove contact lenses if present and easy to do so. Continue rinsing.

P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water. Shower

POTENTIAL HEALTH EFFECTS

SKIN: May cause skin irritation

EYE: Will cause irritation

INGESTION: May be harmful if swallowed

INHALATION: May be harmful if inhaled. May cause respiratory tract irritation

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	APPROXIMATE CONCENTRATION %	C.A.S., N.A. OR U.N. NUMBERS	LD50 {SPECIFY SPECIES & ROUTE}	LC 50 SPECIFY SPECIES
Acetic Acid	3 - 7	64-19-7	Oral(Rat): 3200 mg/kg Dermal (Rabbit): 1,112mg/kg	
Water, inert	Balance	7732-18-5		

SECTION 4 – FIRST AID MEASURES	
SKIN CONTACT	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and wash using soap. Get medical attention if necessary.
EYE CONTACT	Immediately hold eyelids open and flush with water for at least 15 minutes. Seek medical attention.
INHALATION	Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention if necessary
INGESTION	May be harmful if swallowed in large amounts. Wash out mouth with water. Do not induce vomiting. Drink 1 or 2 glasses of water. Seek immediate medical attention. Never give anything by mouth to an unconscious or convulsing person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.
NOTES TO PHYSICIAN	Eye burns or irritation may require extended irrigation. Swallowing may result in burns of the mouth, stomach and lower gastrointestinal tract. Aspiration of vomitus may cause lung injury.

SECTION 5 – FIRE-FIGHTING MEASURES	
FLASH POINT (°C)	40° C (104° F) Flash point for Acetic Acid
FLASH POINT METHOD	Closed cup
AUTOIGNITION TEMPERATURE (°C)	427° C (801° F) For Acetic Acid
UPPER FLAMMABLE LIMIT (% VOL.)	16
LOWER FLAMMABLE LIMIT (% VOL.)	4
HAZARDOUS COMBUSTION PRODUCTS	Carbon dioxide, Carbon monoxide
UNUSUAL FIRE/ EXPLOSION HAZARDS	None known
SENSITIVITY TO MECHANICAL IMPACT	No.
SENSITIVITY TO STATIC DISCHARGE	No
EXTINGUISHING MEDIA	Use extinguishing agents compatible and appropriate for the burning material. Use water spray to keep fire-exposed containers cool
SPECIAL FIRE FIGHTING PROCEDURES	Fire fighters should wear full protective clothing, including self-contained breathing equipment.

SECTION 6 – ACCIDENTAL RELEASE MEASURES	
LEAK AND SPILL PROCEDURE	Stop leak. Move containers from spill area. Absorb spill with vermiculite absorbent material, and place in a suitable container for disposal. Clean surfaces thoroughly with water to remove residual contamination. LARGE SPILL: Dike area to contain spill.
ENVIRONMENTAL PRECAUTIONARY	Prevent entry into sewers or streams. Any release to the environment should be subject to federal or local reporting requirements.
PERSONAL PRECAUTIONARY MEASURES	Wear protective clothing during cleanup. See section 8 for recommendations on the use of personal protective equipment. Avoid breathing vapors, mist or gas. Avoid contact with clothing and skin

SECTION 7 – HANDLING AND STORAGE	
HANDLING PROCETURES	Avoid contact with eyes and skin. Avoid ingestion. Use good industrial hygiene practices in handling this product. Keep container closed when not in use.
STORAGE NEEDS	Keep container tightly closed. Store in a cool area above freezing point. Keep out of the reach of children. Keep in properly labeled containers.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION	
VENTILATION REQUIREMENTS	Good ventilation is recommended.
PROTECTIVE EQUIPMENT	Ensure that eyewash stations are proximal to the work-station location. The selection of personal protective equipment will vary depending on the condition of use
EYE/TYPE	Splash goggles, safety glasses
RESPIRATORY/TYPE	Approved/ certified vapor respirator when airborne concentration exceed exposure limits. Exposure limits for Canadian provinces (Acetic Acid): 8 hrs OEL: 10 ppm (25 mg/m ³), 15 min OEL: 15 ppm (37 mg/m ³). US health exposure limits (NIOSH): PEL (Permissible): TWA 10 ppm (25 mg/m ³). ACGIH TLV: 25 mg/m ³ . OSHA PEL: 25 mg/m ³ . IDLH: 50 ppm
GLOVE/TYPE	Nitrile, Vinyl, Butyl impervious gloves
FOOTWEAR/TYPE	Boots. Chemical resistant and as specified by the workplace
BODY/TYPE	Protective clothing is required. Use impervious clothing (apron, coveralls). The selection of personal protective equipment will vary depending on the conditions of use.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES	
APPEARANCE – PHYSICAL STATE	Thin clear liquid
ODOUR	Vinegar
ODOUR THRESHOLD (PPM)	Not determined
PH	2.3 ± 0.5 concentrate
MELTING POINT (°C)	See freezing point
BOILING POINT (°C)	>100°C (212° F) INITIAL
FREEZING POINT (°C)	0°C (32° F)
EVAPORATION RATE	<0.8 (n-Butyl Acetate = 1)
FLAMMABILITY	Not combustible
FLASH POINT (°C)	40°C (104° F) For Acetic acid
AUTO IGNITION TEMPERATURE	427°C (801° F) For acetic Acid
DECOMPOSITION TEMPERATURE	Not available
VAPOUR DENSITY	Same as water
VAPOUR PRESSURE	Same as water
SOLUBILITY	Completely soluble in water
VISCOSITY	Thin liquid
% VOLATILE BY VOLUME	95± 0.5 %
SPECIFIC GRAVITY	1.01± 0.02 gm / cm ³ @ 20°C

SECTION 10 – STABILITY AND REACTIVITY	
REACTIVITY	Strong bases, Oxidizers
CHEMICAL STABILITY	Stable under normal conditions
POSSIBILITY OF HAZARDOUS REACTIONS	Non known
CONDITIONS TO AVOID	Store away from oxidizing agents, strong bases
INCOMPATIBLE MATERIALS	Avoid contact with strong oxidizers, strong bases, Permanganates.
HAZARDOUS DECOMPOSITION PRODUCTS	Carbon oxides

SECTION 11 – TOXICOLOGICAL INFORMATION	
TOXICITY EFFECTS ON ANIMALS	Figures for Acetic Acid (64-19-7): Acute oral toxicity (LD50): 3,200 mg/kg (Rat), LD50 dermal (Rabbit): 1,112 mg/kg. LC50 Inhalation Vapor (Rat): 11,000 mg/ m ³ .
TOXIC EFFECTS ON HUMANS	Inhalation: Vapors are primarily water; exposure is not likely to be hazardous. Ingestion: May cause digestive tract irritation or ulceration, burns of the mouth and throat with abdominal pain, vomiting. Skin contact: Prolonged contact may cause skin irritation with local redness. Repeated contact may cause skin burns. Eye contact: May cause severe irritation.
CHRONIC EFFECTS ON HUMANS	Prolonged contact with skin may defat tissue causing dermatitis or skin problems.
CARCINOGENICITY	No evidence
TERATOGENICITY	No data available
MUTAGENICITY	No evidence
REPRODUCTIVE EFFECTS	No evidence

SECTION 12 – ECOLOGICAL INFORMATION	
ECOTOXICITY DATA	Figures for Acetic Acid (64-19-7): Toxicity to fish (LC50), Oncorhynchus mykiss (Rainbow trout): >1,000 mg /L /96 h, static test. Acute toxicity to aquatic invertebrates: EC50, Daphnia magna (Water flea): >300 mg / L /48 h.. Material is practically non-toxic to fish. Acetic Acid has high biochemical oxygen demand, and a potential to cause oxygen depletion in aquatic systems
BIODEGRADABILITY	Readily biodegradable
PRODUCTS OF DEGRADATION	No relevant data found

SECTION 13 – DISPOSAL CONSIDERATIONS	
WASTE DISPOSAL	Disposal of all wastes must be done in accordance with municipal, provincial and federal regulations. Keep out of waterways.
INFORMATION ON SAFE HANDLING FOR DISPOSAL INCLUDING ANY CONTAMINATED PACKAGING	Suitable waste facility.

SECTION 14 – TRANSPORT INFORMATION	
UN NUMBER	Not regulated
UN PROPER SHIPPING NAME	
TRANSPORT HAZARD CLASS	Not regulated
PACKAGING GROUP	
ENVIRONMENTAL HAZARDS	NO
TRANSPORT IN BULK, if applicable	NOT AVAILABLE
SPECIAL PRECAUTIONS	Guide to Canadian Transportation/ Emergency Response Guidebook (ERG): # 153

SECTION 15 – REGULATORY INFORMATION	
SAFETY HEALTH & ENVIRONMENTAL REGULATIONS SPECIFIC TO THE PRODUCT	<p>U.S. TSCA inventory Status: All components of this product are either on the Toxic Substances Control Act (TSCA) INVENTORY List or exempt.</p> <p>Canadian DSL Inventory Status: All components of this product are either on the Domestic Substances List (DSL) or the Non-Domestic Substances List (NDSL) or exempt.</p>

SECTION 16 – OTHER INFORMATION	
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DATE OF THE LATEST REVISION OF SDS:	April 13, 2018