

Product: Vinegar

SECTION 01: IDENTIFICATION

Supplier identifier..... Mr. Janitorial Supplies
 1125 Kerrisdale Blvd.
 Newmarket , ON L3Y 8W1
 CA
 905-836-4250
 Product identifier..... VINEGAR
 Product code..... MRJS100046
 Emergency telephone number..... CANUTEC 24-hour number (613-996-6666).
 Product use..... Acid cleaner.

SECTION 02: HAZARD IDENTIFICATION



Hazard classification..... Skin Irritation — Category 2. Serious Eye Damage — Category 1.
 Signal word..... DANGER.
 Hazard statement..... H315 Causes skin irritation. H318 Causes serious eye damage.
 Precautionary statements..... P264 Wash thoroughly after handling. P280 Wear protective gloves/eye protection/face protection. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P332+P313 If skin irritation occurs: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash before reuse. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor/physician.

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS #	WT. %
Acetic acid	64-19-7	5.7-6.5

SECTION 04: FIRST-AID MEASURES

Routes of exposure
 Inhalation..... Remove to fresh air. If irritation persists, consult a physician.
 Ingestion..... Never give anything by mouth to an unconscious person. Rinse mouth and then drink plenty of water. Do not induce vomiting. Get medical aid.
 Skin contact..... Promptly wash skin thoroughly with soap and water and rinse for 15 minutes. Remove contaminated clothing and launder before reuse. If irritation develops, get medical aid.
 Eye contact..... Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical aid.
 Most important symptoms and effects, both acute and delayed . The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

SECTION 05: FIRE-FIGHTING MEASURES

Extinguishing media..... Use an extinguishing agent suitable for the surrounding fire.
 Hazardous combustion products..... Carbon oxides. Harmful vapours. The substances/groups of substances mentioned can be released in case of fire.
 Special protective equipment and precautions for firefighters..... Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.
 Sensitivity to static discharge..... Product is not sensitive to static discharge.
 Sensitivity to mechanical impact..... Product is not sensitive to mechanical impact.
 Further information..... Contact with some reactive metals may produce flammable hydrogen gas.

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SECTION 06: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
 Environmental precautions.....
 Methods and materials for containment and cleaning up

Wear protective equipment: goggles, chemically resistant clothing and gloves, and appropriate respirator if in a confined area. Ventilate area if indoor.
 Prevent spilled material from entering the ground, water and/or air by using appropriate containment methods. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply. Ventilate the area. Prevent further leakage or spillage if safe to do so.
 Ensure adequate ventilation. Cover spill area with suitable absorbent material (e.g., sand, earth, sawdust, vermiculite, Oil-Dri, Kitty Litter, etc.). Sweep up material being careful not to raise dust. Place in an appropriate disposal container and seal tightly. Contaminated absorbent material may pose the same hazards as the spilled product. Large Spill: Contain the spilled material. Large spills may be neutralized with dilute alkaline solutions of soda ash or lime.

SECTION 07: HANDLING AND STORAGE

Handling precautions.....
 Storage needs.....
 Materials to avoid.....

Handle as an industrial chemical. Avoid contact with skin and eyes.
 Keep in a dry, cool and well-ventilated place. Keep containers tightly closed when not in use.
 Keep away from strong bases. Keep away from oxidizing agents. Do not mix with other chemicals or cleaners.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL NIOSH
Acetic acid	10 ppm	15 ppm	10 ppm	15 ppm	10 ppm TWA
Engineering controls.....	No special ventilation requirements. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.				
Individual protection measures					
Eye/type.....	Safety glasses with side-shields.				
Gloves/ type.....	Wear chemical resistant protective gloves.				
Respiratory/type.....	Generally not required. Wear respiratory protection if ventilation is inadequate.				
Hygiene measures.....	Handle in accordance with good industrial hygiene and safety practice. Wear clean long legged, long sleeved work clothes.				

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance..... liquid.
 Color..... colourless.
 Odour..... acidic.
 Odour threshold..... no data available.
 pH..... 2-2.4.
 Melting point (°C)..... not applicable.
 Freezing point (°C)..... 0.
 Initial boiling point (°C)..... 100.
 Flash point (°C), Method..... >100°C, closed cup.
 Evaporation rate..... no data available.
 Upper flammability limit (% vol)..... no data available.
 Lower flammability limit (% vol)..... no data available.
 Vapour pressure (mm Hg)..... 17.5.
 Vapour density (air=1)..... > 1.
 Relative density/Specific Gravity..... 1.0.
 Water solubility..... soluble.
 Solubility in other solvents..... no data available.
 Partition coefficient — n-octanol/water..... no data available.
 Auto ignition temperature (°C)..... > 200 °C.
 Thermal decomposition temperature..... no data available.
 Viscosity..... thin liquid.

SECTION 10: STABILITY AND REACTIVITY

Reactivity..... No hazardous reactions if stored and handled as prescribed/indicated.
 Chemical stability..... The product is stable if stored and handled as prescribed/indicated.
 Possibility of hazardous reactions..... Contact with some reactive metals may produce flammable hydrogen gas.
 Conditions to avoid..... Do not mix with anything but water. Reacts vigorously with alkaline material or metals. Hazardous vapours may be produced when mixed with chlorinated detergents.
 Incompatible materials..... Reducers, alkaline material, metals.

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SECTION 10: STABILITY AND REACTIVITY

Hazardous decomposition products..... Decomposition will not occur if handled and stored properly. In case of fire, oxides of carbon (CO and CO₂), fumes and smoke may be produced.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
Acetic acid	11.4 mg/l (inhalation-rat, 4h)	3,310 mg/kg (oral-rat); 1,100 mg/kg (dermal-rabbit)
Routes of exposure		
Inhalation.....	Inhalation of vapours may cause irritation to the nose, throat and respiratory tract.	
Ingestion.....	Ingestion may cause pain, irritation and burns in the mouth, throat and stomach.	
Skin contact.....	Contact may cause irritation.	
Eye contact.....	Eye contact may cause severe burns and permanent corneal injury. May be followed by blindness.	
Acute effects		
Acute oral toxicity.....	Acute toxicity estimate > 2,000 mg/kg. Method: calculation method. Virtually nontoxic after a single ingestion.	
Acute dermal toxicity.....	LD50 (Rabbit) : > 2,000 mg/kg. Method: calculation method. Virtually nontoxic after a single skin contact.	
Acute inhalation toxicity.....	Acute toxicity estimate : > 20 mg/l. Virtually nontoxic by inhalation. Method: calculation method.	
Skin corrosion/irritation.....	Result: Moderate skin irritation.	
Serious eye damage/eye irritation.....	Result: Corrosive to eyes.	
Respiratory or skin sensitisation.....	Non-sensitizing.	
Specific target organ toxicity (STOT) single exposure	Based on the available information there is no specific target organ toxicity to be expected after a single exposure.	
Aspiration hazard.....	No aspiration hazard expected.	
Chronic toxicity/effects		
Specific target organ toxicity (STOT) repeated exposure	No known significant effects or critical hazards.	
Carcinogenicity.....	No carcinogenic substances as defined by IARC, NTP, OSHA and/or ACGIH.	
Reproductive toxicity.....	No known significant effects or critical hazards.	
Germ Cell Mutagenicity.....	No known significant effects or critical hazards.	
Remarks.....	The product has not been tested. The statement has been derived from the properties of the individual components.	
Symptoms of Exposure.....	The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11. Further important symptoms and effects are so far not known.	

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity..... May be dangerous for the environment. No data is available on the product itself. Should not be released into the environment.

Persistence and degradability..... The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Bioaccumulative potential..... Biodegrades readily under aerobic and anaerobic conditions. No tendency to bioaccumulate.

Mobility in soil..... No data available.

Other adverse effects..... No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal methods

Waste disposal of substance..... Dispose of in accordance with national, state and local regulations.

Container disposal Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

SECTION 14: TRANSPORT INFORMATION

TDG classification..... Not regulated as a dangerous good.

SECTION 15: REGULATORY INFORMATION

WHMIS regulatory status..... This product has been classified in accordance with the hazard criteria of the Canadian Hazardous Products Regulations and the Safety Data Sheet contains all the information required by the Hazardous Products Regulations (WHMIS 2015). This product is WHMIS 2015 controlled.

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SECTION 16: OTHER INFORMATION

Disclaimer..... The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.

Prepared by: CanChem Consultant

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