



## Safety Data Sheet

Section 1. Identification		
<b>Product Identifier</b>	<b>5% Acetic Acid</b>	<b>Version: 2</b> <b>Effective Date: 25 January 2021</b>
<b>Other Means Of Identification</b>	None	
<b>Initial Supplier Identifier</b>	Envent Engineering Ltd. 2721 Hopewell Place NE Calgary, AB T1Y 7J7 Tel: 403-235-4012	
<b>Recommended Use and Restrictions On Use</b>	Industrial acid, reactant, chemical intermediate. No restrictions.	
<b>Product Family</b>	Blend	
<b>Emergency Phone</b>	1-855-887-2055 Monday - Friday 8:00am - 4:30pm MST	

Section 2. Hazard Identification	
<b>Hazard Classification</b>	Not a regulated product
<b>Signal Word</b>	None
<b>Hazard Statement</b>	None
<b>Precautionary Prevention Statement</b>	Non Hazardous
<b>Precautionary Response Statement</b>	Non Hazardous
<b>Precautionary Disposal Statement</b>	Non Hazardous
<b>Precautionary Storage Statement</b>	Non Hazardous
<b>Other Hazards</b>	None

Section 3. Composition / Information on Ingredients			
Chemical Name	Common Name or Synonyms	CAS No. and Other Unique Identifiers	% by weight
Acetic Acid		64-19-7	4 - 6

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Section 4. First-Aid Measures	
<b>Eye Contact</b>	Flush eyes with water for 15 minutes. Seek medical attention.
<b>Skin Contact</b>	Wash skin with water.
<b>Inhalation</b>	Remove victim to fresh air. If there is difficulty breathing, seek immediate medical attention.
<b>Ingestion</b>	Rinse mouth with water if conscious. Do not induce vomiting. Lay victim on left side to prevent aspiration of any vomit. Seek immediate medical attention.
<b>Most Important Symptoms and Effects Both Acute and Delayed</b>	May cause slight eye irritation.
<b>Immediate Medical Attention and Special Treatment</b>	Rinse with plenty of water.

Section 5. Fire-Fighting Measures	
<b>Suitable and Unsuitable Extinguishing Media</b>	Use dry chemical, CO <sub>2</sub> , water spray (fog), or foam.
<b>Hazardous Combustion Products</b>	Oxides of carbon.
<b>Specific Hazards Arising From the Product</b>	None known
<b>Special Protective Equipment and Precautions For Fire-Fighters</b>	Firefighters should wear self-contained breathing apparatus and full protective clothing. Use water spray to cool containers and structures exposed to fire.

Section 6. Accidental Release Measures	
<b>Personal Precautions, Protective Equipment and Emergency Procedures</b>	Protective equipment is not required under normal conditions of use. Good housekeeping practices should be employed. Ensure adequate ventilation. Secure area. Surface might become slippery.
<b>Environmental Precautions</b>	Not environmentally hazardous.
<b>Methods and Materials For Containment and Clean-Up</b>	Neutralize with sodium carbonate or crushed limestone. Absorb with an inert dry material and place in an appropriate container for waste disposal. Flush area with water to remove trace residues.

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Section 7. Handling and Storage	
<b>Precautions For Safe Handling</b>	Handle with care. Good housekeeping practices should be employed.
<b>Conditions For Safe Storage</b>	Store in a cool, dry, well ventilated area. Keep containers closed when not in use. Store out of direct sunlight and on an impermeable floor.

Section 8. Exposure Controls / Personal Protection				
<b>Control Parameters</b>	<b>TWA: 8 Hr</b>	<b>STEL: 15 min</b>	<b>Ceiling</b>	<b>IDLH *</b>
Acetic Acid	10 ppm	15 ppm		50 ppm
	OSHA * Immediately Dangerous to Life and Health			
<b>Exposure Controls</b>	Local exhaust ventilation			
<b>Appropriate Engineering Controls</b>	Ensure eye wash station is available			
<b>Individual Protective Measures</b>				
<b>Eye / Face Protection</b>	Wear chemical safety goggles			
<b>Skin Protection</b>	Gloves			
<b>Respiratory Protection</b>	Not required under normal conditions of use			

Section 9. Physical and Chemical Properties	
<b>Appearance</b>	Clear, colourless, liquid
<b>Odour</b>	Vinegar odour
<b>Odour Threshold</b>	Not applicable
<b>pH</b>	2.4
<b>Flash Point</b>	>100 °C
<b>Boiling Point and Boiling Range</b>	100 °C
<b>Melting Point and Freezing Point</b>	-2.2 °C
<b>Evaporation Rate</b>	Not determined
<b>Flammability (solid, gas)</b>	N/A
<b>Upper and Lower Flammability or Explosive Limits</b>	No data
<b>Vapour Pressure</b>	No data
<b>Vapour Density</b>	2.1
<b>Relative Density</b>	1.01
<b>Solubility</b>	Soluble
<b>Partition co-efficient, n-Octanol/Water</b>	No data
<b>Auto-ignition Temperature</b>	No data

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<b>Decomposition Temperature</b>	No data
<b>Viscosity</b>	No data

Section 10. Stability and Reactivity	
<b>Reactivity</b>	Reacts with carbonates
<b>Chemical Stability</b>	The product is stable
<b>Possibility of Hazardous Reactions</b>	None
<b>Conditions to Avoid</b>	Contact with common metals will produce flammable hydrogen gas.
<b>Incompatible Materials</b>	Oxidizing agents, common metals (not aluminium), chromic acid, sulphuric acid, hydrogen peroxide, alkalis, carbonates, strong bases, amines, phosphorus trichloride
<b>Hazardous Decomposition Products</b>	Under normal storage condition decomposition will not occur.

Section 11. Toxicological Information			
Component Toxicity	LD50 Oral	LD50 Dermal	LC50 Inhalation
Acetic Acid	47.286 g/kg (Rat)	15.143 g/kg (Rabbit)	
<b>Likely Routes of Exposure</b>			
<b>Skin:</b>	None expected.		
<b>Eyes:</b>	None expected.		
<b>Inhalation:</b>	None expected.		
<b>Ingestion:</b>	None expected.		
<b>Acute Toxicity Estimates (ATE)</b>	Not toxic		
<b>STOT (Specific Target Organ Toxicity) – Single Exposure</b>	Not classified		
<b>Aspiration Toxicity</b>	Not classified		
<b>STOT (Specific Target Organ Toxicity) – Repeated Exposure</b>	Not classified		
<b>Skin Corrosion / Irritation</b>	Not classified		
<b>Serious Eye Damage / Irritation</b>	May cause mild irritation		
<b>Respiratory or Skin Sensitization</b>	Not classified		
<b>Carcinogenicity</b>	Not listed.		
<b>Reproductive Toxicity</b>			

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- <b>Sexual Function and Fertility</b>	Not classified
- <b>Development of Offspring</b>	Not classified
- <b>Effects on or via Lactation</b>	Not classified
<b>Germ Cell Mutagenicity</b>	Not classified
<b>Interactive Effects</b>	None known
<b>Other Adverse Effects</b>	Nine known

Section 12. Ecological Information	
<b>Ecotoxicity</b>	Acetic acid: LC50: 423 mg/l (Goldfish) LC50: 75 mg/l (Bluegill sunfish) LC50: 88 mg/l (Fathead minnow).
<b>Persistence and Degradability</b>	Will not persist
<b>Bioaccumulative Potential</b>	Will not accumulate
<b>Biodegradability</b>	This product is biodegradable
<b>Mobility in Soil</b>	No data,
<b>Special Remarks</b>	BOD: 5 day = 63 – 81 %
<b>Other Adverse Effects</b>	None known

Section 13. Disposal Considerations	
<b>Disposal Considerations</b>	Dispose of contents/containers in accordance with local regulations.

Section 14. Transport Information	
<b>UN Number</b>	None
<b>UN Proper Shipping Name</b>	None
<b>Transport Hazard Class(es)</b>	None
<b>Packaging Group</b>	None
<b>Environmental Hazards</b>	Not applicable
<b>Bulk Transport</b>	Not applicable
<b>Special Precaution</b>	Not applicable
<b>DOT Erg#</b>	Not applicable



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Section 15. Regulatory Information	
<b>Canada – DSL Inventory</b>	All components of this product are either on the Domestic Substances List (DSL), Non-Domestic Substances List (NDSL), or exempt
<b>TSCA</b>	All components of this product are either on the Toxic Substances Control Act (TSCA) Inventory List or exempt
<b>Additional Information</b>	None

Section 16. Other Information	
<b>NFPA Rating</b>	Health-0/ Flammability-0/Reactivity-0/Special Hazard-Not applicable
<b>HMIS Rating</b>	Health-0/Flammability-0/Reactivity-0/Personal Protection-See Section 8.
<b>Prepared by:</b>	Envent Engineering Ltd., Technical Department
<b>Date Prepared:</b>	25 January, 2019
<b>Date of Latest Revision:</b>	25 January 2021
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