

SAFET	Y DATA SHEET
Section 1, Identification	
Product:	Karlin Foods Baking Soda, KF ID# S24BS
Manufacturer:	Karlin Foods Corp
	1845 Oak St. Suite 19
	Northfield, IL 60093
Emergency Phone Number:	Karlin Foods: 847-441-8330
	Chemtrec: 800-424-9300
Recommended Use:	Leavening agent, cleaner ingredient, bath salt
	ingredient, water softener, diaper rinse ingredient,
	direct food additive
Restrictions on Use:	None
Section 2, Hazard(s) Identification	
Classification:	OSHA Regulatory Status. This chemical is not
	considered hazardous by the 2012 OSHA Hazard
	Communication Standard (29 CFR 1910.1200)
Required Label:	The product contains no substances which at their
	given concentration, are considered to be hazardous to
	health
Other Information:	Product dust may cause mechanical eye irritation.
Section 3, Composition/Information on Ingre	
Formula:	NaHCO3
Chemical Name:	Sodium Bicarbonate
Section 4, First Aid Measures	
Eye Contact:	Flush eyes with water as a precaution. Get Medical
	attention if irritation develops and persists.
Skin Contact:	Wash skin with soap and water. Get medical attention
	if irritation develops and persists.
Inhalation:	Remove person to fresh air. If signs/symptoms
	continue, get medical attention.
Ingestions:	Never give anything by mouth to an unconscious
5	person. Get medical attention if symptoms occur
Most important symptoms and effects, both	None known.
acute and delayed:	
Indication of immediate medial attention	Treat symptomatically.
and special treatment needed, if necessary	
Section 5, Fire-Fighting Measures	1
Suitable Extinguishing Media:	Use extinguishing measures that are appropriate to
	local circumstances and the surrounding environment
Specific Hazards Arising from the Chemical:	None in particular. Not flammable
Hazardous Combustion Products:	None
Explosion data	

Sensitivity to Mechanical Impact:	Not sensitive		
Sensitivity to Static Discharge:	Not sensitive		
Protective equipment and precautions for	As in any fire, wear self-contained breathing apparatus		
firefighters	pressure-demand, MSHA/NIOSH (approved or		
	equivalent) and full protective gear		
Section 6, Accidental Release Measures			
Personal Precautions:	Avoid dust formation.		
Other:	For further clean-up instructions, call Emergency		
	Hotline number listed in Section 1 "Product and		
	Company Identification" above.		
Environmental Precautions:	Prevent material from entering into soil, ditches,		
	sewers, waterways, and/or groundwater. See Section		
	12, Ecological Information for more detailed		
	information.		
Methods for Containment:	Vacuum or shovel waste into a drum and label		
	contents for disposal.		
Methods for cleaning up:	Pick up and transfer to properly labeled containers.		
	Keep in suitable and closed containers for disposal.		
-	Dispose of waste as indications in Section 13.		
Section 7, Handling and Storage			
Handling:	Use air conveying/mechanical systems for bulk transfer		
	to storage. Provide appropriate exhaust ventilation at		
	places where dust is formed. In case of insufficient		
	ventilation, wear suitable respiratory equipment if		
	release of airborne dust is expected.		
Storage:	Keep in a dry place. Keep away from incompatible		
	products (acids). Do not store with strong smelling		
	materials.		
Incompatible Products:	Except under controlled conditions: Acids		
Sections 8, Exposure Controls/Personal Pro			
Control Parameters:	This product, as supplied, does not contain any		
	hazardous materials with occupational exposure limits		
	established by the region specific regulatory bodies		
	Local nuisance dust standards apply.		
Appropriate Engineering Controls:	Where reasonably practicable this should be achieved		
	by the use of local exhaust ventilation and good		
	general extraction.		
Individual protection measures, such as per			
Eye/Face Protection:	Safety glasses with side shields		
Skin and Body Protection:	Wear suitable protective clothing. Protective shoes or		
	boots.		
Hand Protection:	Protective gloves.		
Respiratory Protection:	In case of inadequate ventilation, wear respiratory		
	protection.		
Hygiene Measures:	Handle in accordance with good industrial hygiene and		
	safety practice.		

General Information:	If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers.	
Section 9, Physical and Chemical Propertie	ls	
Appearance:	Crystalline, Powder	
Physical State:	Solid	
Color:	White	
Odor:	Odorless	
Odor Threshold:	Not applicable	
рН:	8.3 (1% solution) @ 25 degrees Celsius	
Melting Point/freezing point:	Not applicable	
Boiling Point/Range:	No information available	
Flash point:	Not applicable	
Evaporation Rate:	No information available	
Flammability (solid, gas):	No information available	
Flammability Limit in Air:	No information available	
Vapor pressure:	Negligible	
Vapor density:	No information available	
Density:	No information available	
Specific gravity:	2.22	
Water solubility:	96g/L @ 20 degrees Celsius	
Solubility in other solvents:	No information available	
Partition coefficient:	Not applicable	
Autoignition temperature:	No information available	
Decomposition temperature:	No information available	
Viscosity, kinematic:	No information available	
Viscosity, dynamic:	No information available	
Explosive properties:	No information available	
Oxidizing properties:	Non-oxidizing	
Molecular weight:	84.01	
Bulk Density:	66 lb/cu ft	
Section 10, Stability and Reactivity		
Reactivity:	None under normal use conditions	
Chemical Stability:	Stable	
Possibility of Hazardous Reactions:	None under normal processing/	
Hazardous polymerization:	Hazardous polymerization does not occur	
Conditions to avoid:	Heat. Humid air. Avoid contact with acids except under	
	controlled conditions. Keep away from strong odor.	
Incompatible materials:	Except under controlled conditions: Acids.	
Hazardous Decomposition Products:	Reacts with acids to release carbon dioxide gas and heat.	
Section 11, Toxicological Information		
LD50 Oral:	>5,000 mg/kg (rat)	
LD50 Dermal:	No information available	
LC50 Inhalation:	>4.74 mg/L (rat) 4.5 hr	
Eye Contact:	Non-irritating	

Skin Contact:		Non-irritating					
Sensitization:		Non-sensitizing					
Info on toxicological effects: Symptoms		No information available.					
Chronic Toxicity:		No known effect					
Mutagenicity:		Not mutagenic					
Carcinogenicity:			carcinogenic by	Research Agencies			
C <i>i</i>		(IARC, NTP, OSHA		C C			
Reproductive toxicity:		No information av					
STOT – single exposure	2:	No information av	/ailable				
STOT – repeated expo		No information av	/ailable				
Aspiration hazard:		No information av	vailable				
Section 12, Ecological Ecotoxicity							
Sodium Bicarbonate (144 Active Ingredient(s)	Duration	Species	Value	Units			
Sodium bicarbonate	96 hr.	Lepomis macrochirus (Bluefill sunfish)	NOEC: 5,200 LC50: 7,100	mg/L			
Sodium bicarbonate	48 hr. immobilization test	Daphnia magna	NOEC: 3,100 EC50: 4,100	mg/L			
Sodium bicarbonate	96 hr.	Oncorhynchus mykiss (rainbow trout)	Oncorhynchus mykiss NOEC: 2,300				
Persistence and degra	dability:	Biodegradability does not pertain to inorganic					
		substances.					
Bioaccumulation:		Does not bio-accumulate					
Mobility:		Dissociates into ic	ons.				
Other Adverse Effects:		None known.					
Section 13, Disposal C		-					
Waste disposal metho	ds:	This material, as supplied, in not a hazardous waste					
		according to Federal regulations (40 CFR 261). Dispose					
		of in accordance with local regulations. Dispose of in accordance with local regulations					
Contaminated Packag	-	Dispose of in acco	ordance with loca	al regulations			
Section 14, Transport	Information						
DOT		Not Regulated					
Section 15, Regulator							
U.S. Federal Regulatio	ns			<u> </u>			
SARA313		Section 313 of Title III of the Superfund Amendments					
		and Reauthorization Act of 1986 (SARA). This product					
			does not contain any chemicals which are subject to				
		the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372					
SARA 311/312 Hazard Categories				art J/Z			
Acute health hazard	categories	No					
Chronic health hazard		No					
Fire hazard		No					
Sudden release of pres	sure hazard	No					
Reactive Hazard		No					
neuclive Huzulu							

Clean Water Act			This product does not contain any substances						
			regulated as pollutants pursuant to the Clean Water						
			Act	(40 CFR 1	22.21 and 4	0 CFR 122	.42)		
CERCLA			This	s material,	as supplied	d, does not	t contain an	у	
				sub	stances re	gulated as	hazardous	substances	under
				the	Compreh	ensive Envi	ronmental	Response	
				Cor	npensatio	n and Liabil	ity Act (CE	RCLA) (40 C	FR 302)
				or t	he Superf	und Amend	ments and	d Reauthori	zation
				Act	(SARA) (4	0 CFR 355).	There may	y be specific	2
				rep	orting req	uirements a	at the loca	l, regional, o	or state
				leve	el pertainii	ng to releas	es of this ı	material.	
California Proposi	ition 65			This	s product o	does not co	ntain any	Proposition	65
				Che	emicals				
U.S. State Right-to-Know Regulations		This product does not contain any substances							
				regulated by state right-to-know regulations.					
International Inve	entories								
Component	TSCA	DSL	EINECS		ENCS	China	KECL	PICCS	AICS
	(United States)	(Canada)	NCS (Euro		(Japan)	(IECSC)	(Korea)	(Philippines)	(Australia
Sodium Bicarbonate 144-55-8(100)	X	Х	X	,	Х	Х	Х	Х	Х
Section 16, Other	[.] Informati	on							
Section 16, Other		lazards 0	Flamr	nabilit	tv 0	Instability 0	Si	oecial Hazards	-
NFPA HMIS	Health H Health H	lazards 0 lazards 0	Flamr Flamr	nabilit	ty 0	Instability 0 Physical haza	rd 0 Pe	oecial Hazards ersonal Protec	
NFPA	Health H Health H	lazards 0 lazards 0	Flamr	nabilit	ty 0		rd 0 Pe		
NFPA HMIS	Health He	lazards 0 lazards 0 Severe =	Flamr 4; Serious	nabilit s = 3; [ty 0 Moderate = 2;	Physical haza Slight = 1; Min	rd 0 Pe imal = 0	ersonal Protec	tion X
NFPA HMIS NFPA/HMIS Ratings Product Certificatio	Health He	lazards 0 lazards 0 Severe =	Flamr 4; Serious tions defi	nabilit s = 3; f ned in	ty 0 Moderate = 2; the USP and	Physical haza Slight = 1; Min Food Chemica	rd 0 Pe	ersonal Protect	tion X

SAFETY DATA SHEET

Section 1 Chemical Product and Company Identification

HOME SCIENCE TOOLS

AMMONIUM CHLORIDE

Ammonium Muriate ; Sal Ammoniac

Hazards Identification

665 Carbon Street Billings, MT 59102 800-860-6272 www.homesciencetools.com

Signal word: WARNING

Pictograms: GHS07

Product Synonyms

Section 2

Page E1 of E2 CHEMTREC 24 Hour Emergency USA

Phone Number (800) 424-9300 1 703-741-5500 (from anywhere in the world).

For laboratory and industrial use only. Not for drug, food or household use.

Target organs: None known GHS Classification: Acute toxicity, oral (Category 4)

GHS Label information: Hazard statement:

H302: Harmful if swallowed. H319: Causes serious eye irritation.

Eye irritation (Category 2A)

Precautionary statement: P264: Wash hands thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P312: IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor if you feel unwell.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313: If eye irritation persists: Get medical attention.
P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.

Hazards not otherwise classified:

Health hazards not otherwise classified (HHNOC) - Not Known Physical hazards not otherwise classified (PHNOC) - Not Known

Section 3 C	Composition / Information on Ingredients				
Chemical Name		CAS #	%	EINECS	
Ammonium chloride		12125-02-9	100%	235-186-4	
Section 4 F	irst Aid Measures				

INGESTION: HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: MAY BE HARMFUL IF INHALED. CAUSES RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: CAUSES EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: MAY CAUSE SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire Fighting Measures

Suitable Extinguishing Media: Carbon dioxide, dry chemical, dry sand, alcohol foam.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Reacts violently with ammonium nitrate and potassium chlorate. This generates fire and explosion hazard. Vaporizes at temperatures of about 335°C (653°F) evolving fumes of nitrogen oxides, chloride ions and ammonia gas.

Section 6 Accidental Release Measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Recover for reuse if not contaminated. Remove all sources of ignition. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Section 7 Handling & Storage

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale dusts. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse

Conditions for Safe Storage: Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from ignition sources.

Section 8	Exposure Controls / Personal Protection					
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)		
Exposure Limits.	Ammonium chloride fume	TWA: 10 ma/m ³ STEL: 20 ma/m ³	None established	TWA: 10 mg/m ³ STEL: 20 mg/m ³		

Engineering controls: Facilities storing or utilizing this material should be equipped with an evewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

Section 9 Physical & Chemical Pro	perties	
 Appearance: Solid, white, crystalline powder Odor: No odor. Odor threshold: Data not available. pH: Data not available. Melting / Freezing point: 520°C (968°F) Boiling point: Sublimes @ 340°C (644°F) Flash point: Data not available 	Evaporation rate (=1): Data not available Flammability (solid/gas): Data not available. Explosion limits: as NH ₃ Lower: 15% Upper: 28% Vapor pressure (mm Hg): Data not available Vapor density (Air = 1): Data not available Relative density (Specific gravity): 1.527 Solubility(ies): Soluble in water.	Partition coefficient: Data not available Auto-ignition temperature: Data not available Decomposition temperature: Data not available. Viscosity: Data not available. Molecular formula: NH ₄ Cl Molecular weight: 53.49
On stilling 40 Ot shilling 0 Designing		

Section 10 Stability & Reactivity

Chemical stability: Stable

Hazardous polymerization: Will not occur.

Conditions to avoid: Somewhat hygroscopic. Has an acid reaction in aqueous solution, solid tends to lose ammonia and become more acid on exposure and in storage Incompatible materials: Oxidizing agents, acids, bases, lead and silver salts.

Hazardous decomposition products: Ammonia and hydrogen chloride.

Section 11 **Toxicological Information**

Acute toxicity: Oral-rat LD50: 1,650 mg/kg

Skin corrosion/irritation: Skin-rabbit - Slight irritant.

Serious eye damage/irritation: Eyes-rabbit - irritant. Respiratory or skin sensitization: Data not available

Germ cell mutagenicity: Data not available

Carcinogenity: Data not available

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: Data not available

STOT-single exposure: Data not available

STOT-repeated exposure: Data not available

Aspiration hazard: Data not available

Potential health effects:

Inhalation: Inhalation of dust or fume from heating may cause upper respiratory tract irritation, coughing, and choking sensation.

Ingestion: Ingestion of large doses cause nausea, vomiting, acidosis, irritation of the mouth, esophagus and gastric system. Ingestion may result in low grade toxicity. Skin: Contact with skin causes irritation and/or dermatitis.

Eves: Contact with eves causes irritation and/or visual impairment.

Signs and symptoms of exposure: See Potential health effects above. Exercise appropriate procedures to minimize potential hazards.

Additional information: RTECS #: BP4550000

Section 12 Ecological Information

Toxicity to fish: Salmo clarki (fish, fresh water, marine), LC50 = 123.8 - 166.6 mg/L/96 hours Toxicity to daphnia and other aquatic invertebrates: Artemia salina (Crustacea), EC50 = 28 mg/L/24 hours Toxicity to algae: Dunaliella tertiolecta (Algae) EC40 = 21.3 mg/L/90 minutes Persistence and degradability: No data available Bioaccumulative potential: No data available Mobility in soil: No data available PBT and vPvB assessment: No data available Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Section 13 **Disposal Considerations** These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency. Transport Information (US DOT / CANADA TDG) Section 14 UN/NA number: Not applicable Shipping name: Not Regulated Hazard class: Not applicable Packing group: Not applicable Reportable Quantity: No Marine pollutant: No 2016 ERG Guide # Not applicable **Exceptions:** Not applicable Section 15 **Regulatory Information** A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list. DSL NDSL Component TSCA CERLCA (RQ) RCRA code CA Prop 65 This product does not contain Ammonium chloride Listed 5000 lbs (2270 kg) Not listed Listed Not listed any chemicals known to the State of California to cause cancer or reproductive toxicity. Section 16 **Other Information**

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook Form 06/2015



Woeber MISTARD Manufacturing Company

P.O. Box 388 • 1966 Commerce Circle • Springfield, Ohio 45501 Phone 937/323-6281 • 1-800/548-2929 • FAX 937/323-1679

Section 1: Identification

Product Identifier:	Vinegar (5% acidity)	
Chemical Name:	Acetic Acid (CH3COOH)	
CAS #:	64-19-7	
Recommended Use:	Food	
Manufacturer Name:	Woeber Mustard Mfg. Company	
Address:	1966 Commerce Circle	
	Springfield, OH 45501	
Telephone:	1-800-548-2929	
Emergency Number:	CHEMTREC: 1-800-424-9300	

Section 2: Hazard(s) Identification

GHS	Classification:	

Skin Corrosive 2, Eye Irritant 2A, Hazardous to aquatic environment



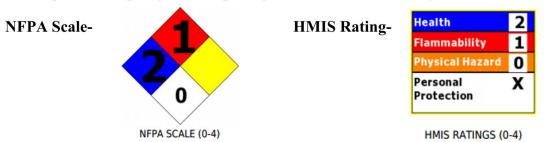
Signal	Word	:	WARNING
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Hazard Statements

Precautionary Statements

H320: Causes eye irritation
H315: Causes skin irritation
H332: Harmful if inhaled
H402: Harmful to aquatic life
ments
P261: Avoid breathing fumes/mist/vapors/spray
P264: Wash exposed skin thoroughly after handling.
P280: Wear protective gloves to avoid prolonged exposure.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P273: Avoid release into the environment

Concentrated vapors irritating to eyes and respiratory tract, avoid inhalation. May cause minor skin irritation.



Section 3: Composition/Information on Ingredients

<u>Chemical Name</u>	<u>Amount</u>	CAS Number
Acetic Acid	5%	64-19-7
Water	95%	7732-18-5

Section 4: First Aid Measures

Inhalation:	If exposed to excessive levels of fumes, remove to fresh air.
Eye Contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER.
Skin Contact:	If on skin; wash with plenty of soap and water. If skin irritation occurs, seek medical advice/attention. If on clothes; remove/take off all contaminated clothing. Rinse skin with soap and water.
Ingestion:	Intended for ingestion, however if swallowed in large quantities, water may be consumed to dilute. Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

Section 5: Fire Fighting Measures

Flash Point:	40° C (104° F) closed cup	
	(Acetic Acid)	
Auto Ignition Temp.:	427° C (800° F)	
	(Acetic Acid)	
Flammable Limits in Air:	4.0% - 16%	
	(Acetic Acid)	

Extinguishing Media:

Water spray, foam CO2 or dry chemical. Water may be used to dilute spills and reduce flammability.

Hazards from Fire:

Toxic gasses and vapors may be released in a fire involving concentrated vinegars.

Section 6: Accidental Release Measures

Small Spill Procedure:

Treat or dispose of waste material as a weak acid in accordance with all local, state/provincial, and national requirements. Water may be used to dilute.

Large Spill Procedure:

Contain spilled material. Large spills may be neutralized with dilute alkaline solutions of soda ash, or lime. Avoid runoff into storm sewers and ditches that lead to waterways. Treat or dispose of waste material as a weak acid in accordance with all local, state/provincial, and national requirements.

Personal Protection:

Protect skin and eyes from exposure. Avoid breathing vapor.

Environmental Precautions:

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

Section 7: Handling and Storage

Precautions for Handling:

Avoid breathing vapor. Avoid contact with eyes, skin, and clothing. Wash contaminated clothing before reusing.

Conditions for safe Storage:

Store in a cool, well ventilated place.

Section 8: Exposure Controls/Personal Protection

Permissible Exposure Limit (PEL):	10 ppm acetic acid
Threshold Limit Value (TLV):	10 ppm acetic acid
Short Term Exposure Limit (STEL):	15 ppm acetic acid
Recommended Exposure Limit (REL):	10 ppm acetic acid

Engineering Controls:

Local exhaust ventilation may be necessary to control any air contaminants to within their TLV during the use of the product. Emergency shower and eye wash stations should be readily available.

Eye/Face Protection;

Wear safety glasses and/or face shield.

Skin Protection:

Rubber/neoprene gloves recommended. Rubber apron or other protective equipment as needed to reduce direct contact. (Concentrated vinegars only)

Respiratory Protection:

As required to prevent exposure to concentrations which exceed the PEL.

Thermal Hazards:

None known

General Hygiene considerations:

Section 9: Physical and Chemical Properties

Physical State and Appearance:	Liquid
Odor:	Pungent, Vinegar-like
Color:	Colorless, Clear
Boiling Point:	100°C (212°F)
Freezing Point:	-2.22°C (28 °F)
PH:	2.6
Specific Gravity:	1.049 (Water = 1)
Vapor Pressure:	1.5 kPa @ 20°C
Solubility in Water:	Complete

Section 10: Stability and Reactivity

Reactivity/Stability:	The product is stable and non-reactive under normal conditions of use, storage and transport.
Incompatibilities:	Avoid strong oxidizing agents / bases
Polymerization:	Will not occur

Section 11: Toxicological Information

Routes of entry	Inhalation, ingestion and skin contact	
Symptoms (acute)	Respiratory irritation	
Delayed effects	No data available	
Carcinogenicity	No evidence of a carcinogenic effect	
Mutagenicity	No evidence of a mutagenicity effect	
Teratogenicity	No evidence of a teratogenicity effect	
Sensitization	No evidence of a sensitization effect	
Reproductive	No evidence of a Reproductive effect	

Section 12: Ecological Information

Ecotoxicity: Will biodegrade readily under aerobic and anaerobic conditions.

Section 13: Disposal Considerations

Treat or dispose of waste material as a weak acid in accordance with all local, state/provincial, and national requirements.

Section 14: Transportation Information

Product Label:	Vinegar.
DOT Shipping Name:	Not applicable
Technical Shipping Name:	Not applicable
DOT Hazard Class:	Not applicable
UN Number:	Not applicable for vinegar containing less than 25% acetic acid, provided packaging complies with ADR Special Provision 647; UN2790 for vinegar containing more than 25% acetic acid
Product RQ (lbs):	Quantity containing the equivalent of 5000 lb of 100% acetic acid, (16,667 lb of vinegar containing 30% acetic acid)
DOT Label:	Not applicable

Section 15: Regulatory Information

Canadian Disclosure List: Acetic Acid (64-19-7)

Comprehensive Environmental Response, Compensation, & Liability Act (CERCLA): Acetic Acid (64-19-7)

Food & Drug Administration (FDA) Product is a GRAS (Generally Recognized as Safe) food ingredient.

Section 16: Other Information

Not Available

Woeber Mustard Co.	Revision Date 6/19/17	Revision Number – 3
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