SAFETY DATA SHEET



Revision Date 19-Jan-2023

Version 1

1. IDENTIFICATION OF THE	SUBSTANCE/PREPARA	TION AND OF THE COMPANY/UNDERTAK	ING
Product identifier			
Product Name	KC-499		
Other means of identification	110-400		
Product Code	20619		
Recommended use of the chemica			
Recommended Use	Acid cleaner		
Uses advised against		n the label when applying this product	
Details of the supplier of the safety			
Manufacturer Address			
Safe Foods Chemical Innovations 1501 E. 8 th Street			
North Little Rock, AR 72114			
Emergency telephone number			
Company Phone Number	501-758-8500		
Emergency Telephone	Chemtrec 1-800-424-9300		
	2. HAZARDS IDEN	THEICATION	
<u>Classification</u>			
OSHA Regulatory Status			
	us by the 2012 OSHA Hazard Co	ommunication Standard (29 CFR 1910.1200)	
Acute toxicity - Oral		Category 3	
Acute toxicity - Dermal		Category 2	
Acute toxicity - Inhalation (Gases)		Category 4	
Acute toxicity - Inhalation (Dusts/Mis	ts)	Category 3	
Skin corrosion/irritation		Category 1	
Serious eye damage/eye irritation		Category 1	
Label elements			
	Emergency Ov	verview	
Danger			
Hazard statements			
Toxic if swallowed			
Estal in contract with slive			
Fatal in contact with skin			
Toxic if inhaled			
	amage		
Toxic if inhaled	amage		
Toxic if inhaled Causes severe skin burns and eye d		Liquid Odor	Sou
Toxic if inhaled Causes severe skin burns and eye d	Physical state	Liquid Odor	Sou
Toxic if inhaled Causes severe skin burns and eye d Causes severe	Physical state ntion	Liquid Odor	Sou
Toxic if inhaled Causes severe skin burns and eye d Appearance Aqueous solution Precautionary Statements - Prever Wash face, hands and any exposed	Physical state ntion skin thoroughly after handling	Liquid Odor	Sou
Toxic if inhaled Causes severe skin burns and eye d Appearance Aqueous solution Precautionary Statements - Prever Wash face, hands and any exposed Do not eat, drink or smoke when usir	Physical state ntion skin thoroughly after handling ng this product	Liquid Odor	Sou
Toxic if inhaled Causes severe skin burns and eye d Appearance Aqueous solution Precautionary Statements - Prever Wash face, hands and any exposed Do not eat, drink or smoke when usir Do not get in eyes, on skin, or on clo	Physical state ntion skin thoroughly after handling ng this product thing	Liquid Odor	Sou
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Toxic if inhaled Causes severe skin burns and eye d Appearance Aqueous solution Precautionary Statements - Prever Wash face, hands and any exposed Do not eat, drink or smoke when usir Do not get in eyes, on skin, or on clo Use only outdoors or in a well-ventila Do not breathe dusts or mists	Physical state ntion skin thoroughly after handling ng this product thing ted area		Sou
Toxic if inhaled Causes severe skin burns and eye d Appearance Aqueous solution Precautionary Statements - Prever Wash face, hands and any exposed Do not eat, drink or smoke when usir Do not get in eyes, on skin, or on clo Use only outdoors or in a well-ventila Do not breathe dusts or mists Wear protective gloves/protective clo	Physical state ntion skin thoroughly after handling ng this product thing ted area thing/eye protection/face protecti		Sou
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Toxic if inhaled Causes severe skin burns and eye d Appearance Aqueous solution Precautionary Statements - Prever Wash face, hands and any exposed Do not eat, drink or smoke when usir Do not get in eyes, on skin, or on clo Use only outdoors or in a well-ventila Do not breathe dusts or mists Wear protective gloves/protective clo Precautionary Statements - Respo Specific treatment (see Section 4 on Immediately call a poison center or d	Physical state ntion skin thoroughly after handling ng this product thing ted area thing/eye protection/face protecti nse SDS) octor	ion	
Toxic if inhaled Causes severe skin burns and eye d Appearance Aqueous solution Precautionary Statements - Prever Wash face, hands and any exposed Do not eat, drink or smoke when usir Do not get in eyes, on skin, or on clo Use only outdoors or in a well-ventila Do not breathe dusts or mists Wear protective gloves/protective clo Precautionary Statements - Respo Specific treatment (see Section 4 on Immediately call a poison center or d IF IN EYES: Rinse cautiously with wa	Physical state ntion skin thoroughly after handling ng this product thing ted area thing/eye protection/face protecti nse SDS) octor ater for several minutes. Remove		
Toxic if inhaled Causes severe skin burns and eye d Appearance Aqueous solution Precautionary Statements - Prever Wash face, hands and any exposed Do not eat, drink or smoke when usir Do not get in eyes, on skin, or on clo Use only outdoors or in a well-ventila Do not breathe dusts or mists Wear protective gloves/protective clo Precautionary Statements - Respo Specific treatment (see Section 4 on Immediately call a poison center or d	Physical state ntion skin thoroughly after handling ng this product thing ted area thing/eye protection/face protecti nse SDS) octor ater for several minutes. Remove	ion	

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. Wash contaminated clothing before reuse. Immediately call a poison center or doctor

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor

IF SWALLOWED: Immediately call a poison center or doctor. Rinse mouth. Do NOT induce vomiting

Precautionary Statements - Storage

Store locked up. Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not Applicable

Other Information

• Harmful to aquatic life with lo	ng lasting effects					
		N/INFORMATION ON INGRED	DIENTS			
Chemical N		CAS No.	weight-%			
Water		7732-18-5	76.5-86.5			
Phosphoric	acid	7664-38-2	4-11			
	Hydrofluoric Acid 7664-39-3 5-9					
		tration) of composition has been withhe				
	4.	FIRST AID MEASURES				
First aid measures						
Eye contact			5-20 minutes. Remove contact lenses, if			
Skin contact		y with soap and plenty of water while r	ek immediate medical attention/advice.			
Skill contact			entoving all contaminated clothes and e. For severe burns, immediate medical			
	attention is required.		c. Tor severe burns, immediate medical			
Inhalation		Administer oxygen if breathing is diffic	ult. Call a physician immediately			
Ingestion		iting. Drink plenty of water. Never give				
	person. Call a physic					
Most important symptoms a						
Symptoms	See Section 11 for s	ymptom information.				
Indication of any immediate	medical attention an	d special treatment needed				
Note to physicians	Treat symptomatical	ly.				
	5. FIF	RE-FIGHTING MEASURES				
Suitable extinguishing medi	a					
Dry chemical. Water spray (for	g). Carbon dioxide (CC	02). Foam.				
Unsuitable extinguishing	j media No info	ormation available.				
Specific hazards arising from	n the chemical					
Attacks many metals producin	g extremely flammable	e hydrogen gas which can form explosi	ive mixtures with air.			
Explosion data						
Sensitivity to Mechanica	I Impact None.					
Sensitivity to Static Disc	harge None.					
Protective equipment and p	recautions for firefigl	nters				
As in any fire, wear self-contai	ned breathing apparat	tus pressure-demand, MSHA/NIOSH (a	approved or equivalent) and full			
protective gear. Cool containe	rs with flooding quantit	ties of water until well after fire is out. N	Non-combustible, substance itself does			
not burn but may decompose	upon heating to produc	ce corrosive and/or toxic fumes.				
	6. ACCID	ENTAL RELEASE MEASURES	3			
Personal precautions, prote	ctive equipment and	emergency procedures				
Personal precautions		otection recommended in Section 8. E	nsure adequate ventilation, especially in			
	confined areas.					
For emergency responders	Isolate area. Ke	ep unnecessary personnel away.				
Environmental precautions	_					
Environmental precautions		to waterways, sewers, basements or c	onfined areas. See Section 12 for			
		gical information.				
Methods and material for co						
Methods for containment		leakage or spillage if safe to do so. Cor				
		e absorbent material, (e.g. sand, earth,				
		er for disposal according to local / nation				
Methods for cleaning up			Pick up neutralized solution with a plastic			
			on in a leak-proof polyethylene container			
		n be disposed of in a hazardous waste f				
	remove any rem	naining residues. Store wash solution in	polyelnylene containers for disposal.			

	7. HANDLING A	AND STORAGE					
Precautions for safe handling							
Advice on safe handling	Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing.						
		eas. Avoid breathing vapors or mis					
. .	handling. Handle in accordance with good industrial hygiene and safety practice.						
Conditions for safe storage, including any incompatibilities							
Storage ConditionsKeep containers tightly closed in a dry, cool and well-ventilated place. Keep from freezing.ncompatible materialsChlorine compounds. Alkali. Metals. Glass.							
8. EXPOSURE CONTROLS/PERSONAL PROTECTION							
Control parameters Exposure Guidelines							
Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH				
Phosphoric acid	STEL: 3 mg/m ³	TWA: 1 mg/m ³	IDLH: 1000 mg/m ³				
7664-38-2	TWA: 1 mg/m ³	(vacated) STEL: 3 mg/m ³	TWA: 1 mg/m ³ STEL: 3 mg/m ³				
Hydrofluoric Acid 7664-39-3	TWA: 0.5 ppm F TWA: 2.5 mg/m ³ F Ceiling: 2 ppm F	TWA: 3 ppm F TWA: 2.5 mg/m ³ F TWA: 2.5 mg/m ³ dust	IDLH: 30 ppm Ceiling: 6 ppm 15 min				
7004-39-3	Cenng. z ppm P	(vacated) STEL: 6 ppm F	Ceiling: 6 ppm 15 min Ceiling: 5 mg/m ³ 15 min				
		(valued) of EE. o ppint	TWA: 3 ppm				
			TWA: 2.5 mg/m ³				
Appropriate engineering contr							
Engineering Controls	Showers, eyewash stations, v						
	s, such as personal protective						
Eye/face protection Skin and body protection	Splash proof chemical goggle	gloves or rubber gloves. Wear sui	table protective elething				
Skill and body protection	Rubber boots recommended.		table protective clothing.				
Respiratory protection		ed or irritation is experienced, NIO	SH/MSHA approved respiratory				
		ositive-pressure supplied air respir					
		trations. Respiratory protection mu					
	with current local regulations.						
General Hygiene Consideratio		<pre>cposed skin thoroughly after handl</pre>					
	clothing and shoes before reu	use. Do not eat, drink or smoke wh	nen using this product.				
9. PHYSICAL AND CHEMICAL PROPERTIES							
		EMICAL PROPERTIES					
Information on basic physical	and chemical properties	EMICAL PROPERTIES					
Physical state	and chemical properties Liquid		Sour				
Physical state Appearance	and chemical properties Liquid Aqueous solution	Odor	Sour No information available				
Physical state Appearance Color	and chemical properties Liquid Aqueous solution Clear light yellow	Odor Odor threshold	No information available				
Physical state Appearance	and chemical properties Liquid Aqueous solution	Odor Odor threshold <u>Remarks</u> ● Method	No information available				
Physical state Appearance Color Property	and chemical properties Liquid Aqueous solution Clear light yellow Values	Odor Odor threshold	No information available				
Physical state Appearance Color <u>Property</u> pH Melting point/freezing point Boiling point / boiling range	and chemical properties Liquid Aqueous solution Clear light yellow <u>Values</u> 0.5 < -13 °C / < 8 °F No information available	Odor Odor threshold <u>Remarks</u> ● Method	No information available				
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Physical state Appearance Color Property pH Melting point/freezing point Boiling point / boiling range Flash point Evaporation rate Flammability (solid, gas) Flammability (solid, gas) Flammability Limit in Air Upper flammability limit: Lower flammability limit: Lower flammability limit: Vapor pressure Vapor density Specific Gravity Water solubility Solubility in other solvents Partition coefficient Autoignition temperature Decomposition temperature Kinematic viscosity Dynamic viscosity Explosive properties Oxidizing properties VOC Content (%)	and chemical properties Liquid Aqueous solution Clear light yellow <u>Values</u> 0.5 <-13 °C / < 8 °F No information available No information available	Odor Odor threshold <u>Remarks</u> ● Method	No information available				
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Chemical stability		· · · · · · · · · · · · · · · · · · ·			
Stable under recommended stor	age conditions.				
Possibility of Hazardous Reac					
None under normal processing.					
Conditions to avoid					
None known.					
Incompatible materials					
Chlorine compounds. Alkali. Met	als. Glass.				
Hazardous Decomposition Pro					
Hydrofluoric acid. Hydrogen gas					
	11. TOXICOLOGIC	AL INFORMATION			
Information on likely routes of	exposure				
Product Information					
Inhalation		h concentration may cause irritation			
Eye contact		nose, throat, and lungs. May cause eyes. Corrosive to the eyes and			
Skin Contact	Corrosive. Contact causes	severe skin irritation and possibl	e burns.		
Ingestion		burn mouth, throat, and stomach			
Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50		
Phosphoric acid 7664-38-2	= 1530 mg/kg (Rat)	= 2740 mg/kg (Rabbit)	> 850 mg/m³ (Rat)1 h		
Hydrofluoric Acid 7664-39-3	-	-	= 0.79 mg/L (Rat)1 h		
Information on toxicological e	ffects				
Symptoms Delayed and immediate effects	No information available.	n short and long-term exposure	2		
Skin corrosion/irritation		gh skin. Prolonged exposure can			
		ased bone density and mottling o			
Sensitization	No information available.				
Germ cell mutagenicity	No information available.				
Carcinogenicity		tain any carcinogens or potential	carcinogens as listed by OSHA		
	IARC or NTP.	, , ,	5 5 -		
Reproductive toxicity	No information available.				
STOT - single exposure	No information available.				
STOT - repeated exposure	No information available.				
Aspiration hazard	No information available.				
Numerical measures of toxicit	y - Product Information				
Unknown Acute Toxicity	4% of the mixture consists	of ingredient(s) of unknown toxic	ity		
	lated based on chapter 3.1 of t		-		
Oral LD50	71.00 mg/kg				
Dermal LD50	71.00 mg/kg				
Gas	6,888.55 mg/l				
Mist	0.57 mg/l				
Ecotoxicity_	12. LOOLOGICA				
Harmful to aquatic life with long l	asting effects				
	mponents(s) of unknown hazards	to the aquatic environment			

4% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Fish	Crustacea
Phosphoric acid 7664-38-2	3 - 3.5: 96 h Gambusia affinis mg/L LC50	4.6: 12 h Daphnia magna mg/L EC50
Hydrofluoric Acid 7664-39-3	660: 48 h Leuciscus idus mg/L LC50	270: 48 h Daphnia species mg/L EC50
Persistence and degradability		•

No information available. Bioaccumulation

bloaccumulation					
Chemical Name	Partition coefficient				
Hydrofluoric Acid	-1.4				
7664-39-3					

Mobility Soluble in water.

Other adverse effects

No information available

	13. DIS	POSAL CONSIDER	ATIONS			
Vaste treatment methods						
Disposal of wastes	Disposal should be in	n accordance with applical	ble regional, national and lo	ocal laws and regulations		
Contaminated packaging	Dispose of in accord	ance with federal, state an	d local regulations.	-		
Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	astes RCRA - U Series Wast		
Hydrofluoric Acid	U134	-	-	U134		
7664-39-3						
	emical Name		California Hazardous Wa	aste Status		
Ph	osphoric acid		Corrosive			
	7664-38-2					
	14. TF	RANSPORT INFORM	ATION			
<u>DOT</u> UN/ID No.	1760	,				
•••••	1760					
Proper shipping name		osive liquid, acidic, n.o.s. (contains hydrofluoric and p	phosphoric acids)		
Hazard Class	8					
Packing Group	II					
Emergency Response	Guide Number 154					
	15. RE	GULATORY INFORM	ATION			
nternational Inventories	<u>S</u>					
SCA	Complies					
SL/NDSL	Complies					
INECS/ELINCS	Complies					
.egend:	-					
SCA - United States Toxic Sub	ostances Control Act Sectio	on 8(b) Inventory				
SL/NDSL - Canadian Domesti						
INECS/ELINCS - European In	ventory of Existing Chemic	al Substances/European List	of Notified Chemical Substand	es		
JS Federal Regulations	_					
ARA 313						
Section 313 of Title III of the	Superfund Amendment	s and Reauthorization Act	of 1986 (SARA). This pro	duct contains a chemica		
r chemicals which are subje	ect to the reporting requi	rements of the Act and Tit	le 40 of the Code of Federa	al Regulations, Part 372		
hemical Name	· · · · ·		SARA 313 - Threshold	Values %		
lydrofluoric Acid - 7664-39-3			1.0			
ARA 311/312 Hazard Cate	egories_					
Acute health hazard		Yes				
Chronic Health Hazard		Yes				
Fire hazard		No				
Sudden release of pres		No				
Reactive Hazard						
		No				
WA (Clean Water Act)						
his product contains the fol	lowing substances which	n are regulated pollutants	pursuant to the Clean Wate	er Act (40 CFR 122.21		
nd 40 CFR 122.42) Chemical Name	CWA - Reportable	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous		
Chemical Name	Quantities	GWA - TOXIC POllularits	GWA - Phoney Pollulants	Substances		
Phosphoric acid	5000 lb	-	-	Х		
7664-38-2	400 IL			~		
Hydrofluoric Acid 7664-39-3	100 lb	-	-	Х		
ERCLA		I		I		
This material, as supplied, c	ontains one or more sub	stances regulated as a ba	zardous substance under t	he Comprehensive		
invironmental Response Co				the Comprehensive		
Chemical Name	Hazardous Subst			portable Quantity (PQ)		
Phosphoric acid	5000 lb			Reportable Quantity (RQ) RQ 5000 lb final RQ		
7664-38-2	5000 IL	, l	-	RQ 2270 kg final RQ		
Hydrofluoric Acid	100 lb		100 lb	RQ 100 lb final RQ		
7664-39-3				RQ 45.4 kg final RQ		
JS State Regulations			I	Ŭ l		
California Proposition 65						
	n any Proposition 65 ch	emicals				
This product does not contai U.S. State Right-to-Know F		emicals				

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Phosphoric acid	X	X	Х
7664-38-2			

Нус	drofluoric Acid 7664-39-3		Х		X		Х
U.S. EPA L	J.S. EPA Label Information						
EPA Pesticide Registration Number Not Applicable							
			16. OT	HER	INFORMATION		
NFPA	Health hazards	3	Flammability	0	Instability 0		Physical and Chemical Properties Corrosive, Acid
<u>HMIS</u>	Health hazards	3*	Flammability	0	Physical hazards	0	Personal protection F (safety glasses, gloves, synthetic apron, dust respirator)
Chronic Hazard Star Legend * = Chronic Health Hazard					. ,		
Prepared B Issue Date Revision D Version Revision N Company n	ate		Technical Dep 14-Jan-2015 19-Jan-2023 1	artmer	ıt		
Disclaimer							
		his Safe	tv Data Sheet is	corre	ct to the best of our	know	ledge, information and belief at the

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. The health hazards given on this SDS apply to this product in its concentrated form (as supplied) and may differ significantly at use dilution. The signs and symptoms of exposure apply only to negligence in handling or misuse of the concentrated product and not to the routine exposure of the diluted product under conditions of ordinary use.

End of Safety Data Sheet