SAFETY DATA SHEET



Revision Date 01-Jan-2023

Version 1

1. IDENTIFICATION OF THE	SUBSTANCE/P	REPARA	TION AND OF	THE COMPA	ANY/UNDERTAP	KING
Product identifier Product Name	160 100					
	KC-406					
Other means of identification	00577					
Product Code	20577					
Recommended use of the chemica		<u>n use</u>				
Recommended Use	Acid cleaner			an huinan thain muca	1	
Uses advised against Details of the supplier of the safet		ns for use c	n the label when ap	pplying this proc	luct	
Manufacturer Address	y uala sheel					
Safe Foods Chemical Innovations						
1501 F. 8 th Street						
North Little Rock, AR 72114						
Emergency telephone number						
Company Phone Number	501-758-8500					
Emergency Telephone	Chemtrec 1-800-4	24-9300				
			ITIFICATION			
Classification_	Δ. ΠΑΖΑΙ		THEIGATION			
OSHA Regulatory Status						
This chemical is considered hazardo	us by the 2012 OSH		mmunication Stan	dard (20 CEP 1	010 1200)	
Acute toxicity - Inhalation (Vapors)	us by the 2012 0311			Category 4	910.1200)	
Acute toxicity - Inhalation (Vapors)	te)			Category 4		
Skin corrosion/irritation	15)				Sub-category A	
Serious eye damage/eye irritation					Sub-calegory A	
				Category 1	\ \	
Carcinogenicity				Category 1/	4	
Oxidizing liquids				Category 3		
Label elements	Em	ergency O	onviow			
DANGER	LIII	ergency O				
Hazard statements						
Harmful if inhaled						
Causes severe skin burns and eye d	amade					
May cause cancer upon inhalation of		d mists				
May intensify fire; oxidizer	Strong morganio dol	1111010				
	A					
	22					
		VU				
Physical state Liquid	Colo	r Clear, C	olorless		Odor	Sour
Precautionary Statements - Preven	ntion					
Obtain special instructions before us	e					
Do not handle until all safety precaut	ions have been read	and unders	tood			
Use personal protective equipment a						
Use only outdoors or in a well-ventila	ted area					
Do not breathe dusts or mists						
Wash face, hands and any exposed						
Keep away from heat/sparks/open fla		o smoking				
Keep/Store away from clothing/comb						
Take any precaution to avoid mixing						
Precautionary Statements - Respo						
Immediately call a POISON CENTER						
Specific treatment (see Section 4 on	SDS)					

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor

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

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store locked up

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 long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS						
Chemical Name CAS No. Weight-%						
Water	7732-18-5	50-60				
Phosphoric acid	7664-38-2	20-25				
Nitric acid 7697-37-2 20-25						
*The exact percentage (concentration) of composition has been withheld as a trade secret.						

4. FIRST AID MEASURES						
First aid measures						
Eye contact	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact					
	lenses, if present, after first 5 minutes, then continue rinsing eye. Seek immediate medical					
	attention/advice.					
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated					
	clothes and shoes. Wash contaminated clothing and shoes before reuse. For severe burns,					
	immediate medical attention is required.					
Inhalation	Remove to fresh air. Administer oxygen if breathing is difficult. Call a physician immediately.					
Ingestion	Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an					
	unconscious person. Call a physician immediately.					
Most important symptoms and effe	ects, both acute and delayed					
Symptoms	See Section 11 for symptom information.					
Indication of any immediate medic	al attention and special treatment needed					
Note to physicians	Treat symptomatically.					
5. FIRE-FIGHTING MEASURES						
Suitable extinguishing media						
Use extinguishing agents appropriate	e for surrounding fire.					
Unsuitable extinguishing media	Do not use straight streams.					
Specific hazards arising from the	chemical					
NFPA Class 1 oxidizer. Exothermic r	eaction will occur upon dilution with water. Pressure burst may occur due to decomposition in					
confined spaces.						

Hazardous combustion products Carbon monoxide. Carbon dioxide (CO2). Phosphorus oxides. Nitrogen oxides (NOx). Explosion data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Cool containers with flooding quantities of water until well after fire is out. Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes. Prevent entry into waterways, sewers, basements or confined areas.

6. ACCIDENTAL RELEASE MEASURES							
Personal precautions, protective	Personal precautions, protective equipment and emergency procedures						
Personal precautions	Use personal protection recommended in Section 8. Ensure adequate ventilation, especially in confined areas.						
For emergency responders Environmental precautions	Isolate area. Keep unnecessary personnel away.						
Environmental precautions	Prevent entry into waterways, sewers, basements or confined areas. See section 12 for additional ecological information.						
Mothode and material for contai	inmont and cleaning up						

Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage o	or spillage if safe to do so. Contain	and collect spillage with					
		nt material, (e.g. sand, earth, diate						
	and place in container for	and place in container for disposal according to local / national regulations (see Section 13).						
Methods for cleaning up		Collect spillage. Soak up with inert absorbent material. Sweep up and shovel into suitable						
containers for disposal. After cleaning, flush away traces with water. Ventilate affecte								
	7. HANDLING	AND STORAGE						
Precautions for safe handling								
Advice on safe handling		ecommended in Section 8. Avoid						
		ventilated areas. Avoid breathing v						
Conditions for safe storage in		accordance with good industrial h	ygiene and safety practice.					
<u>Conditions for safe storage, in</u> Storage Conditions		osed in a dry, cool and well-ventila	ated place. Containers must be					
Storage conditions		n original container. Keep from fre						
		arated by at least 25 feet from flar						
		all be maintained by dikes, drains						
		from encroaching on the separation						
		e of oxidizers shall be on an aisle						
		kidizers must be separated by al le						
Incompatible materials		e commodities (NFPA 400 Table ´ Alkali. Ammonia. Turpentine. Cya						
incompatible materials		de. Certain soft metals. Organic m						
	Reducing agent.							
8		S/PERSONAL PROTECTIO	N					
Control parameters								
Exposure Guidelines								
Chemical Name		OSHA PEL	NIOSH IDLH					
Phosphoric acid 7664-38-2	STEL: 3 mg/m ³ TWA: 1 mg/m ³	TWA: 1 mg/m ³ (vacated) STEL: 3 mg/m ³	IDLH: 1000 mg/m ³ TWA: 1 mg/m ³					
1004 00 2		(vacated) or EE. or hig/hi	STEL: 3 mg/m ³					
Nitric acid	STEL: 4 ppm	TWA: 2 ppm, 5 mg/m ³	IDLH: 25 ppm					
7697-37-2	TWA: 2 ppm	(vacated) STEL: 4 ppm, 10 mg/m ³	TWA: 2 ppm, 5 mg/m ³					
Appropriate engineering contr			STEL: 4 ppm, 10 mg/m ³					
Engineering Controls	Showers, eyewash station	ns, ventilation system						
Individual protection measures								
Eye/face protection	Splash proof chemical go	ggles and face shield.						
Skin and body protection	Wear protective Neopren	e™ gloves or rubber gloves. Wea	r suitable protective clothing.					
	Rubber boots recommend							
Respiratory protection		If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved						
	respiratory protection sho	respiratory protection should be worn. Positive-pressure supplied air respirators may be						
		required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.						
General Hygiene Consideratio		ny exposed skin thoroughly after h	andling. Wash contaminated					
		e reuse. Do not eat, drink or smok						
	9. PHYSICAL AND CH	IEMICAL PROPERTIES	- ·					
Information on basic physical								
Physical state	Liquid							
Appearance	Aqueous solution	Odor	Sour					
Color	Clear, Colorless	Odor threshold	No information available					
Property	Values	Remarks • Metho	<u>id</u>					
pH Molting point / freezing point	1 -18.9 °C / -2 °F	±1 @ 21°C						
Melting point / freezing point Boiling point / boiling range	No information available							
Flash point Not flammable								
Evaporation rate No information available								
Flammability (solid, gas)	No information available							
Flammability Limit in Air								
Upper flammability limit:	No information available							
Lower flammability limit:	No information available							
Vapor pressure	No information available							
Vapor density								
Specific Gravity	1.264 g/cc							

Water solubility	Completely s	oluble						
Solubility in other solvents		No information available						
Partition coefficient	No informatio							
Autoignition temperature	No informatio							
Decomposition temperature		No information available						
Kinematic viscosity		No information available						
Dynamic viscosity		No information available						
Explosive properties	No informatio							
Oxidizing properties	No informatio							
VOC Content (%)	0.00%							
	10. ST	ABILITY AND R	EACTIVITY					
Reactivity								
May intensify fire; oxidizer								
Chemical stability				- h - t 00				
This product will maintain its physical structure in the second structure in the second structure is the second structure in the second structure is the second structure is second structure in the second structure is second structure is second structure in the second structure is second structure is second structure in the second structure in the second structure is second structure in the second structure in the second structure is second structure in the second structure in the second structure is second structure in the second structure in the second structure is second structure in the s		n stored closed at mo	derate temperature	s, between 28	F and 105 F.			
Possibility of Hazardous React								
Pressure burst may occur due to	decomposition in co	onfined spaces.						
Conditions to avoid								
Moisture. Add product to water, r	never add water to tr	his product. Exothern	hic reaction will occu	ir upon dilutio	n with water.			
Incompatible materials	mmonia Turnontin	- Cuanidaa Sulfidaa	Carbidos Alashali	Ludrogon S	ulfida. Cartain aaft			
Chlorinated compounds. Alkali. A metals. Organic material. Combu				s. nyurogen S	unde. Centain solt			
Hazardous Decomposition Pro		uoniy ay c iii.						
Carbon monoxide. Carbon dioxid		is ovides Nitrogen e	vides (NOv)					
Carbon monoxide. Carbon dioxid	. ,		. ,					
	11. TOXI	COLOGICAL IN	FORMATION					
Information on likely routes of	exposure							
Product Information								
Inhalation				irritation of res	spiratory system. Vapors			
		ing to eyes, nose, thi						
Eye contact	Rick of soriou	a damaana ta ayyaa (
_jo oomaat			Corrosive to the eyes	s and may cau	ise severe damage			
_j0 00ma0t	including blin	dness.		-	· ·			
Skin Contact	including blin Corrosive. Co	dness. ontact causes severe	skin irritation and p	ossible burns.				
-	including blin Corrosive. Co	dness. ontact causes severe	skin irritation and p	ossible burns.	· ·			
Skin Contact	including blin Corrosive. Co Harmful if sw	dness. ontact causes severe	skin irritation and p outh, throat, and sto	ossible burns.				
Skin Contact Ingestion Chemical Name	including blin Corrosive. Co Harmful if sw upper digesti Oral LD5	dness. ontact causes severe allowed. Can burn m ve and respiratory tra 0	skin irritation and p outh, throat, and sto icts. Dermal LD50	ossible burns. omach. Ingesti	on causes burns of the Inhalation LC50			
Skin Contact Ingestion Chemical Name Phosphoric acid	including blin Corrosive. Co Harmful if sw upper digesti	dness. ontact causes severe allowed. Can burn m ve and respiratory tra 0	skin irritation and p outh, throat, and sto lots.	ossible burns. omach. Ingesti	on causes burns of the			
Skin Contact Ingestion Chemical Name Phosphoric acid 7664-38-2	including blin Corrosive. Co Harmful if sw upper digesti Oral LD5 = 1530 mg/kg	dness. ontact causes severe allowed. Can burn m ve and respiratory tra 0	skin irritation and p outh, throat, and sto icts. Dermal LD50	ossible burns. omach. Ingesti	on causes burns of the Inhalation LC50 50 mg/m³ (Rat)1 h			
Skin Contact Ingestion Chemical Name Phosphoric acid 7664-38-2 Nitric acid	including blin Corrosive. Co Harmful if sw upper digesti Oral LD5	dness. ontact causes severe allowed. Can burn m ve and respiratory tra 0	skin irritation and p outh, throat, and sto icts. Dermal LD50	ossible burns. omach. Ingesti	on causes burns of the Inhalation LC50			
Skin Contact Ingestion Chemical Name Phosphoric acid 7664-38-2 Nitric acid 7697-37-2	including blin Corrosive. Co Harmful if sw upper digesti Oral LD5 = 1530 mg/kg	dness. ontact causes severe allowed. Can burn m ve and respiratory tra 0	skin irritation and p outh, throat, and sto icts. Dermal LD50	ossible burns. omach. Ingesti	on causes burns of the Inhalation LC50 50 mg/m³ (Rat)1 h			
Skin Contact Ingestion Chemical Name Phosphoric acid 7664-38-2 Nitric acid 7697-37-2 Information on toxicological ef	including blin Corrosive. Co Harmful if sw upper digesti Oral LD5 = 1530 mg/kg - fects	dness. ontact causes severe allowed. Can burn m ve and respiratory tra 0 (Rat) = 2	skin irritation and p outh, throat, and sto icts. Dermal LD50	ossible burns. omach. Ingesti	on causes burns of the Inhalation LC50 50 mg/m³ (Rat)1 h			
Skin Contact Ingestion Chemical Name Phosphoric acid 7664-38-2 Nitric acid 7697-37-2 Information on toxicological ef Symptoms	including blin Corrosive. Co Harmful if sw upper digesti Oral LD5 = 1530 mg/kg - : fects No informatio	dness. ontact causes severe allowed. Can burn m ve and respiratory tra 0 (Rat) = 2 n available.	skin irritation and p outh, throat, and sto icts. Dermal LD50 2740 mg/kg (Rabbit)	ossible burns. omach. Ingesti	on causes burns of the Inhalation LC50 50 mg/m³ (Rat)1 h			
Skin Contact Ingestion Chemical Name Phosphoric acid 7664-38-2 Nitric acid 7697-37-2 Information on toxicological ef Symptoms Delayed and immediate effects	including blin Corrosive. Co Harmful if sw upper digesti Oral LD5 = 1530 mg/kg - ffects No informatio	dness. ontact causes severe allowed. Can burn m ve and respiratory tra 0 (Rat) = 2 n available. effects from short	skin irritation and p outh, throat, and sto icts. Dermal LD50 2740 mg/kg (Rabbit)	ossible burns. omach. Ingesti	on causes burns of the Inhalation LC50 50 mg/m³ (Rat)1 h			
Skin Contact Ingestion Chemical Name Phosphoric acid 7664-38-2 Nitric acid 7697-37-2 Information on toxicological ef Symptoms Delayed and immediate effects Sensitization	including blin Corrosive. Co Harmful if sw upper digesti Oral LD5 = 1530 mg/kg - : fects No informatio	dness. ontact causes severe allowed. Can burn m ve and respiratory tra 0 (Rat) = 2 n available. <u>effects from short</u> n available.	skin irritation and p outh, throat, and sto icts. Dermal LD50 2740 mg/kg (Rabbit)	ossible burns. omach. Ingesti	on causes burns of the Inhalation LC50 50 mg/m³ (Rat)1 h			
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Mist	1.0129 mg/l						
	16.0269 mg/l						
		L INFORMATION					
Ecotoxicity	12. LOOLOGICA						
Harmful to aquatic life with long lasting	effects						
0 % of the mixture consists of compone		to the aquatic environment					
	Algae/aquatic plants	Fish	Crustacea				
Phosphoric acid 7664-38-2	- 3 - 3.5: 96 h Gambusia affinis mg/L 4.6: 12 h Daphnia magr LC50 EC50						
Nitric acid 7697-37-2	-	72: 96 h Gambusia affinis mg/L LC50	-				
Persistence and degradability							
No information available.							
<u>Bioaccumulation</u>							
No information available.							
Chemical Nam		Partition c					
Nitric acid - 7697-3	57-2	-2.	.3				
<u>Mobility</u> Soluble in water.							
Other adverse effects	No information available						
	13. DISPOSAL C	ONSIDERATIONS					
Vaste treatment methods							
	Disposal should be in acc regulations.	ordance with applicable regional,	national and local laws and				
		with federal, state and local regula	ations.				
	14. TRANSPOR	FINFORMATION					
ТОТ							
UN/ID No.	3264						
Proper shipping name	Corrosive liquid, acidic, in	organic, n.o.s. (contains phospho	ric and nitric acids)				
	8	3 , (,				
	I						
Emergency Response Guide	154						
Number							
	15. REGULATOR	Y INFORMATION					
nternational Inventories							
	Complies						
	Complies						
EINECS/ELINCS	Complies						
Legend:							
TSCA - United States Toxic Substances (DSL/NDSL - Canadian Domestic Substan	nces List/Non-Domestic Subst	ances List					
EINECS/ELINCS - European Inventory of	Existing Unemical Substance	es/European List of Notified Chemical	Substances				
JS Federal Regulations							
SARA 313	Amondmonto and Dacith	ration Act of 1006 (SADA) T	his product contains a charries				
Section 313 of Title III of the Superfund or chemicals which are subject to the re							
Chemical Name		SARA 313 - Thre					
Nitric acid - 7697-37-2		1.					
SARA 311/312 Hazard Categories		· · · · · · · · · · · · · · · · · · ·					
Acute health hazard	Yes						
Chronic Health Hazard	Yes						
Fire hazard	Yes						
Sudden release of pressure hazard							
Reactive Hazard	No						
CWA (Clean Water Act <u>)</u>							
This product contains the following sub-	stances which are regulate	ed pollutants pursuant to the Clea	n Water Act (40 CFR 122.21				

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Phosphoric acid 7664-38-2	5000 lb	-	-	Х
Nitric acid 7697-37-2	1000 lb	-	-	Х

<u>CERCLA</u>

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Phosphoric acid	5000 lb	-	RQ 5000 lb final RQ
7664-38-2			RQ 2270 kg final RQ
Nitric acid	1000 lb	1000 lb	RQ 1000 lb final RQ
7697-37-2			RQ 454 kg final RQ

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Phosphoric acid 7664-38-2	Х	Х	Х
Nitric acid 7697-37-2	Х	X	Х

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

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16. OTHER INFORMATION							
NFPA	Health hazards	3	Flammability	0	Instability 0		Physical and Chemical Properties OX - Oxidizer Corrosive, Acid
HMIS	Health hazards	3*	Flammability	0	Physical hazards	0	Personal protection I (Safety Goggles, Gloves, Dust & Vapor Respirator)
Chronic Hazar	d Star Legend		* = Chronic Heal	lth Ha	zard		, , , ,
Prepared By			Technical Dep	artme	ent		
Issue Date			27-Mar-2014				
Revision Date	e		01-Jan2023				
Version			1				
Revision Not	e		Company nam	e upo	date.		
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. 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