

FE FOODS Revision Date 10-Aug-2023 Version 2 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING Product identifier Product Name FB-1559 Other means of identification Product Code 21559 Recommended use of the chemical and restrictions on use Recommended Use Scale Inhibitor Uses advised against Follow the directions for use on the label when applying this product Details of the supplier of the safety data sheet Manufacturer Address Safe Foods Chemical Innovations 1501 E. 8th Street North Little Rock, AR 72114 **Emergency telephone number Company Phone Number** 501-758-8500 **Emergency Telephone** Chemtrec 1-800-424-9300 2. HAZARDS IDENTIFICATION Classification **OSHA Regulatory Status** This chemical is considered hazardous by the 2012 OSGA Hazard Communication Standard (29 CFR 1910.1200) Acute toxicity - Oral Category 4 Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 1 Carcinogenicity Category 2 Label elements **Emergency Overview** Danger Hazard statements Harmful if swallowed Causes skin irritation Causes serious eye damage Suspected of causing cancer Aqueous solution Physical state **Color** Colorless to yellowish **Odor** Characteristic **Precautionary Statements – Prevention** Obtain special instructions before use Do not handle until all safety precautions have been read and understood Wear protective gloves/protective clothing/eye protection/face protection Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Precautionary Statements - Response IF exposed or concerned: Get medical advice/attention 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: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor if you feel unwell. **Precautionary Statements – Storage** Store locked up. Store in corrosive resistant container with a resistant inner liner.

Precautionary Statements – Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Other Information

Toxic to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS					
Chemical Name	Chemical Name CAS No. weight-%				
Water	7732-18-5	50-90			
Ethylenediaminetetraacetic acid tetrasodium salt	64-02-8	10-50			
Sodium hydroxyacetate	2836-32-0	1-5			
Sodium hydroxide	1310-73-2	1-5			
Nitrilotriacetic acid, trisodium salt	5064-31-3	1-5			

*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 before reuse. Get medical attention if irritation develops and persists.
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 syn	nptoms and effects, both acute and delayed
Symptoms	See Section 11 for symptom information.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Dry chemical. Water spray (fog). Carbon dioxide (CO2). Foam.

Unsuitable extinguishing media No information available.

Specific hazards arising from the chemical

No information available. **Hazardous combustion products** Nitrogen oxides. Carbon oxides. <u>Explosion data</u>

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.

6. ACCIDENTAL RELEASE MEASURES			
Personal precautions, protectiv	ve equipment and emergency procedures		
Personal precautions	Use personal protection recommended in Section 8. Ensure adequate ventilation, especially in confined areas. Stay upwind.		
For emergency responders	Isolate area. Keep unnecessary personnel away.		
Environmental precautions			
Environmental precautions	Prevent entry into waterways, sewers, basements or confined areas. See section 12 for		
	additional ecological information.		
Methods and material for conta	ainment and cleaning up		
Methods for containment	Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non- combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).		
Methods for cleaning up	Soak up with inert absorbent material. Collect spillage. Sweep up and shovel into suitable containers for disposal. Following product recovery, flush area with water.		

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling	Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Use only in well-ventilated areas. Avoid breathing vapors or mists. Wash thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice.
Conditions for safe storage, incl	uding any incompatibilities
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep from freezing.
Incompatible materials	Amphoteric metals (aluminum, copper, zinc). Contact with metals may evolve flammable
	hydrogen gas.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters	
Exposure Guidelines	This product, as supplied, does not contain any hazardous materials with occupational
	exposure limits established by the region-specific regulatory bodies
Appropriate engineering controls	
Engineering Controls	Showers, eyewash stations, ventilation system.
Individual protection measures, s	such as personal protective equipment
Eye/face protection	Splash proof chemical goggles and face shield.
Skin and body protection	Chemical resistant gloves, suit and boots.
Respiratory protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved
	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 Considerations	

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and	chemical properties		
Physical state	Aqueous solution		
Appearance		Liquid Odor Chara	
Color	Colorless to yellowish	Odor threshold	No information available.
Property	Values	Remarks • Method	
рН	11.4	± 0.5 @ 21 °C (1% solution)	
Melting point / freezing point	-25 °C / -13 °F		
Boiling point / boiling range	106 °C / 223 °F		
Flash point	Not flammable		
Evaporation rate	< 0.8		
Flammability (solid, gas)	No information available.		
Flammability Limit in Air			
Upper flammability limit:	No information available.		
Lower flammability limit:	No information available.		
Vapor pressure	3.2 kPa @ 20 °C		
Vapor density	No information available.		
Specific Gravity	1.31 g/cc		
Water solubility	Soluble in water		
Solubility in other solvents	No information available.		
Partition coefficient	No information available.		
Autoignition temperature	No information available.		
Decomposition temperature	No information available.		
Kinematic viscosity	20 cSt @ 20°C		
Dynamic viscosity	No information available.		
Explosive properties	No information available.		
Oxidizing properties	No information available.		
Other Information			
Softening point	No information available.		
Molecular weight	No information available.		
VOC Content (%)	No information available.		
Density	No information available.		
Bulk density	No information available.		

10. STABILITY AND REACTIVITY

Reactivity No data available **Chemical stability**

Stable under recommended storage conditions.

Possibility of Hazardous Reactions None under normal processing.

<u>Conditions to avoid</u> Elevated temperatures.

Incompatible materials

Amphoteric metals (aluminum, copper, zinc). Contact with metals may evolve flammable hydrogen gas.

Hazardous Decomposition Products

None known based on information supplied.

	11	. TOXICOLC	GICAL IN	ORMATIO	N	
Information on likely routes of			-			
Product Information						
Inhalation Mist from	this product	may cause irrit	ation of upper	respiratory tr	act (nose and th	nroat). Prolonged excessiv
		cause serious a			· ·	, ,
Eye contact Solution v	vill irritate or	burn. Permane	nt eye damag	e is possible.		
Skin contact Prolonged	l contact ma	y cause irritatio	n. Mist may c	ause skin irrita	ation.	
Ingestion Swallowir	ig causes se	vere burns of m	nouth, throat a	and stomach.	May irritate or b	urn tissue of
Ű	stinal tract.					
Chemical Name		Oral L		Derm	al LD50	Inhalation LC50
Ethylenediaminetetraacetic acid tet		= 1658 mg/	kg (Rat)		-	-
- Glycine,N,N'-1,2-Ethanediy						
(Carboxymethyl)-, Sodium Sa 64-02-8	lit (1:4)					
Sodium hydroxyacetate	2	= 7110 mg/	ka (Rat)		_	
2836-32-0	•	- / 110 mg/	ng (nat)		-	-
Sodium hydroxide		= 325 mg/k	(g (Rat)	= 1350 ma	/kg (Rabbit)	-
1310-73-2						
Nitrilotriacetic acid, trisodiur	n salt	= 1100 mg/	kg (Rat)		-	>5 mg/L (Rat)4 h
5064-31-3						
nformation on toxicological e						
Symptoms		nation available				
Delayed and immediate effect				and long-ter	<u>m exposure</u>	
Sensitization		nation available				
Germ cell mutagenicity		nation available		4		
Carcinogenicity						sed urinary tumors in
						ancer in humans, especiall c acid did not cause cance
		tory animals.	insoulum sait			acid did not cause cance
Chemical Name		ACGIH	IARC	•	NTP	OSHA
Nitrilotriacetic acid, trisodium sal		-	Group		-	X
5064-31-3			Oloup	20		
ACGIH (American Conference	of Governm	ental Industrial I	lygienists)			•
A3 - Animal Carcinogen						
NTP (National Toxicology Pro	gram)					
Known - Known Carcinogen OSHA (Occupational Safety a	nd Lloolth Ad	ministration of t	ha US Danarta	ant of Labor)		
X - Present	nu nealth Au		ne os Departin	lent of Labor)		
Reproductive toxicity	No infor	nation available	2			
STOT - single exposure		nation available				
STOT - repeated exposure				d on the follow	wina oragne: Kia	dney. Urinary Tract.
5101 - Tepeated exposure			been reporte		wing organs. No	incy. Officiary fract.
Aspiration hazard	Respiratory system. Risk of serious damage to the lungs (by aspiration).					
	es of toxicity - Product Information					
Jnknown Acute Toxicity		the mixture con	sists of increa	lient(s) of unk	nown toxicity	
The following values are calcu						
Oral LD50	1,269.00			uocument		
		2. ECOLOG	ICAL INFO	RMATION		
Ecotoxicity						
	ting offecte					
Toxic to aquatic life with long las				<i></i> .		

0% of the mixture consists of component(s) of unknown hazards to the aquatic environment

Sodium hydroxide 1310-73-2-45.4: 96 h Oncorhynchus mykiss mg/L LC50 static-Nitrilotriacetic acid, trisodium salt 5064-31-3-175 - 225: 96 h Lepomis macrochirus mg/L LC50 static 560 - 1000: 96 h Oryzias latipes mg/L LC50560 - 1000: 48 h Daphnia magna mg/L LC50 semi-static 560 - 1000: 96 h Poecilia reticulata mg/L LC50 semi-static 72 - 133: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 72 - 133: 96 h Oncorhynchus mykiss mg/L LC50 static 93 - 170: 96 h Pimephales promelas mg/L LC50 252: 96 h Lepomis macrochirus mg/L LC50 static560 - 1000: 48 h Daphnia magna mg/L LC50114: 96 h Pimephales promelas mg/L LC50 252: 96 h Lepomis macrochirus mg/L LC50 470: 96 h Pimephales promelas mg/L LC50 static-	Ethylenediaminetetraacetic acid tetrasodium salt 64-02-8	1.01: 72 h Desmodesmus subspicatus mg/L EC50	41: 96 h Lepomis macrochirus mg/L LC50 static 59.8: 96 h Pimephales promelas mg/L LC50 static	-
5064-31-3560 - 1000: 96 h Oryzias latipes mg/L LC50Daphnia magna mg/L LC50 semi-static 560 - 1000: 96 h Oryzias latipes mg/L LC50 semi-static 560 - 1000: 96 h Poecilia reticulata mg/L LC50Daphnia magna mg/L LC50560 - 1000: 96 h Poecilia reticulata mg/L LC50 560 - 1000: 96 h Poecilia reticulata mg/L LC50 semi-static 72 - 133: 96 h Oncorhynchus mykiss mg/L LC50 static 93 - 170: 96 h Pimephales promelas mg/L LC50 flow-through 114: 96 h Pimephales promelas mg/L LC50 252: 96 h Lepomis macrochirus mg/L LC50	,	-	45.4: 96 h Oncorhynchus mykiss mg/L LC50 static	-
		-	560 - 1000: 96 h Oryzias latipes mg/L LC50 560 - 1000: 96 h Oryzias latipes mg/L LC50 semi-static 560 - 1000: 96 h Poecilia reticulata mg/L LC50 560 - 1000: 96 h Poecilia reticulata mg/L LC50 semi-static 72 - 133: 96 h Oncorhynchus mykiss mg/L LC50 static 93 - 170: 96 h Pimephales promelas mg/L LC50 flow-through 114: 96 h Pimephales promelas mg/L LC50 252: 96 h Lepomis macrochirus mg/L LC50	Daphnia magna

No information available.

Bioaccumulation

No information available.

Mobility

Soluble in water.

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods Disposal of wastes Contaminated packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations. Dispose of in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT	
UN/ID No.	3267
Proper shipping name	Corrosive liquid, basic, organic, n.o.s. (contains sodium hydroxide, tetrasodium ethylenediamine tetraacetate)
Hazard Class	8
Packing Group	III

15. REGULATORY INFORMATION

International Inventories	
TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

US Federal Regulations

SARA 313

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

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

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	CWA - Toxic Pollutants	CWA - Priority Pollutants	
	Quantities			Substances
Sodium hydroxide	1000 lb	-	-	Х
1310-73-2				
CERCLA				

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)
Sodium hydroxide	1000 lb	-	RQ 1000 lb final RQ
1310-73-2			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
Sodium hydroxide 1310-73-2	Х	Х	Х
Nitrilotriacetic acid, trisodium salt 5064-31-3	-	Х	-

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION								
<u>NFPA</u>	Health hazards	3	Flammability 0	Instability	0	Physical and Chemical Properties Corrosive, Alkaline		
<u>HMIS</u>	Health hazards	3	Flammability 0	Physical I	hazards 0	Personal protection D (face shield, gloves, synthetic apron)		
Prepared By Issue Date Revision Date Version Revision Note	Technical Department 25-Aug-2020 10-Aug-2023 2 Sections 2, 3, 8, 11, 12 updated.			ited.				

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