

SAFETY DATA SHEET

Revision Date 01-Jan.-2023 Version 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name FB-1542

Other means of identification

Product Code 21542

Recommended use of the chemical and restrictions on use

Recommended Use Chlorinated alkaline CIP cleaner

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 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1

Label elements

Emergency Overview

Danger

Hazard statements

Causes severe skin burns and eye damage



Appearance Aqueous solution Physical state Liquid Odor Chlorine

Precautionary Statements - Prevention

Do not breathe dusts or mists

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

Immediately call a poison center or doctor

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

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

· Very toxic to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS		
Chemical Name	CAS No.	weight-%

Water	7732-18-5	73-83
Potassium hydroxide	1310-58-3	6-10
Sodium hypochlorite	7681-52-9	3-7
Trade Secret 1	Proprietary	2-7
Trade Secret 2	Proprietary	2-5
Trade Secret 3	Proprietary	< 0.9
Sodium hydroxide	1310-73-2	< 0.2

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First aid measures

Skin contact

Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if Eye contact

present, after first 5 minutes, then continue rinsing eye. Seek immediate medical attention/advice. 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 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 Carbon monoxide. Carbon dioxide (CO2). Chlorine gas released on contact with acids,

or during thermal decomposition.

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.

6. ACCIDENTAL RELEASE MEASURES

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 Environmental precautions

Isolate area. Keep unnecessary personnel away.

Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for

additional ecological information.

Methods and material for containment 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). Collect spillage. Soak up with inert absorbent material. Sweep up and shovel into suitable

Methods for cleaning up containers for disposal. Following product recovery, flush area with water.

7. HANDLING AND STORAGE

Precautions for safe handling

Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Advice on safe handling

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, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep from freezing. Do

not reuse container.

Incompatible materials Acids. Amphoteric metals (aluminum, copper, zinc).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

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Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Potassium hydroxide 1310-58-3	Ceiling: 2 mg/m ³	(vacated) Ceiling: 2 mg/m ³	Ceiling: 2 mg/m ³
Sodium hydroxide 1310-73-2	Ceiling: 2 mg/m ³	TWA: 2 mg/m³ (vacated) Ceiling: 2 mg/m³	IDLH: 10 mg/m³ Ceiling: 2 mg/m³

Appropriate engineering controls

Engineering Controls Showers, eyewash stations, ventilation system.

Individual protection measures, such as personal protective equipment

Eye/face protection Splash proof chemical goggles and face shield.

Wear protective Neoprene[™] gloves or rubber gloves. Wear suitable protective clothing. Skin and body protection

Rubber boots recommended.

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved Respiratory protection

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.

Wash face, hands and any exposed skin thoroughly after handling. Wash contaminated **General Hygiene Considerations** clothing and shoes before reuse. Do not eat, drink or smoke when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid

Aqueous solution Odor **Appearance** Chlorine

Clear light yellow **Odor threshold** Color No information available

Remarks • Method **Property** Values pН 12 ±1 @ 21°C (2% solution)

Melting point/freezing point -18 °C / 0 °F

Boiling point / boiling range 99-105 °C / 210-220 °F

Flash point Not flammable

Evaporation rate

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 > 1 **Specific Gravity** 1.19 g/cc Miscible in water Water solubility

Solubility in other solvents No information available **Partition coefficient** No information available **Autoignition temperature** No information available **Decomposition temperature** No information available Kinematic viscosity No information available **Dynamic viscosity** No information available **Explosive properties** No information available Oxidizing properties No information available

VOC Content (%) 0.00%

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions. This product will gradually lose some of its oxidizing power over time. Elevated temperatures and contaminants can rapidly accelerate decomposition, possible leading to a hazardous condition.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Extremes of temperature and direct sunlight.

Incompatible materials

Acids. Amphoteric metals (aluminum, copper, zinc).

Hazardous Decomposition Products

Carbon monoxide. Carbon dioxide (CO2). Chlorine gas released on contact with acids, or during thermal decomposition.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

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Inhalation Inhalation of vapors in high concentration may cause irritation of respiratory system. Vapors

may be irritating to eyes, nose, throat, and lungs.

Eye contact Risk of serious damage to eyes. Corrosive to the eyes and may cause severe damage

including blindness.

Skin Contact Corrosive. Contact causes severe skin irritation and possible burns.

Ingestion Harmful if swallowed. Can burn mouth, throat, and stomach. Ingestion causes burns of the

upper digestive and respiratory tracts.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Potassium hydroxide 1310-58-3	= 284 mg/kg (Rat)	-	-
Sodium hypochlorite 7681-52-9	= 8200 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	-
Trade Secret 2	= 3 g/kg (Rat)	> 10 g/kg (Rabbit)	> 42 g/m³ (Rat)1 h
Trade Secret 3	= 1960 mg/kg (Rat)	> 4640 mg/kg (Rabbit)	-
Sodium hydroxide 1310-73-2	-	= 1350 mg/kg (Rabbit)	-

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

 Chemical Name
 ACGIH
 IARC
 NTP
 OSHA

 Sodium hypochlorite - 7681-52-9
 Group 3

IARC (International Agency for Research on Cancer)

Group 3 - "not classifiable as human carcinogens" (listed as hypochlorite salts)

Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
Aspiration hazard
No information available.
No information available.
No information available.
No information available.
Product Information

Unknown Acute Toxicity 4.5% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document

Oral LD50 5,954.00 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic life with long lasting effects

4.5% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Potassium hydroxide	-	80: 96 h Gambusia affinis mg/L LC50 static	-
1310-58-3			
Sodium hypochlorite	0.095: 24 h Skeletonema	4.5 - 7.6: 96 h Pimephales promelas mg/L LC50 static	2.1: 96 h Daphnia
7681-52-9	costatum mg/L EC50	0.06 - 0.11: 96 h Pimephales promelas mg/L LC50 flow-through	magna mg/L EC50
		0.4 - 0.8: 96 h Lepomis macrochirus mg/L LC50 static	0.033 - 0.044: 48 h
		0.28 - 1: 96 h Lepomis macrochirus mg/L LC50 flow-through	Daphnia magna mg/L
		0.03 - 0.19: 96 h Oncorhynchus mykiss mg/L LC50 semi-static	EC50 Static
		0.05 - 0.771: 96 h Oncorhynchus mykiss mg/L LC50 flow-through	
		0.18 - 0.22: 96 h Oncorhynchus mykiss mg/L LC50 static	
Trade Secret 2	-	5560 - 6080: 96 h Lepomis macrochirus mg/L LC50 flow-through	1000: 48 h Daphnia
		12946: 96 h Lepomis macrochirus mg/L LC50 static	magna mg/L EC50
		6420 - 6700: 96 h Pimephales promelas mg/L LC50 static	340.7 - 469.2: 48 h
		6020 - 7070: 96 h Pimephales promelas mg/L LC50 static	Daphnia magna mg/L
		7050: 96 h Pimephales promelas mg/L LC50 semi-static	EC50 Static
		4747 - 7824: 96 h Oncorhynchus mykiss mg/L LC50 flow-through	
Trade Secret 3 - 301 - 478: 96 h Lepomis macrochirus mg/L LC50		216: 96 h Daphnia	
		3185: 96 h Brachydanio rerio mg/L LC50 semi-static	magna mg/L EC50
Sodium hydroxide	-	45.4: 96 h Oncorhynchus mykiss mg/L LC50 static	-
1310-73-2			

Persistence and degradability

No information available.

Bioaccumulation

	bloaccumulation		
Chemical Name Potassium hydroxide		Partition coefficient	
		0.65	
	1310-58-3	0.83	

Mobility

Miscible in water.

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Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging Dispose of in accordance with federal, state and local regulations.

California Hazardous Waste Status	
Toxic	Corrosive
Toxic	Corrosive
	Toxic

14. TRANSPORT INFORMATION

DOT

UN/ID No. 1760

Proper shipping name Corrosive liquids, n.o.s. (contains potassium hydroxide and sodium hypochlorite)

Hazard Class 8
Packing Group II
Emergency Response Guide Number 154

15. REGULATORY INFORMATION

International Inventories

TSCA Complies
DSL/NDSL Complies
EINECS/ELINCS Does not comply

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 No
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 Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
				Jubstances
Potassium hydroxide	1000 lb	-	-	X
1310-58-3				
Sodium hypochlorite	100 lb	-	-	Х
7681-52-9				
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)
Potassium hydroxide	1000 lb	-	RQ 1000 lb final RQ
1310-58-3			RQ 454 kg final RQ
Sodium hypochlorite	100 lb	-	RQ 100 lb final RQ
7681-52-9			RQ 45.4 kg final 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

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Potassium hydroxide 1310-58-3	X	X	X
Sodium hypochlorite 7681-52-9	X	X	X
Sodium hydroxide 1310-73-2	X	X	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not Applicable

16. OTHER INFORMATION

NFPA Health hazards 2 Flammability 0 Instability 0 Physical and Chemical Properties

Corrosive, Alkaline

HMIS Health hazards 2 Flammability 0 Physical hazards 0 Personal protection C (safety

glasses, gloves, synthetic apron)

Prepared By Technical Department

 Issue Date
 30-Oct-2018

 Revision Date
 01-Jan.-2023

Version

Revision Note Company Name Update

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