



SAFETY DATA SHEET

Issuing Date 03-Feb-2014

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Revision Number 2

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

GHS product identifier

Product Name Restore 77

Other means of identification

Product Code(s) 4820

UN Number UN3262

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Fryer Boil Out Compound

Uses advised against No information available

Supplier's details

Supplier Address
Sunburst Chemicals, Inc.
220 W. 86th St.
Bloomington, MN 55420
TEL: 952-884-3144

Emergency Telephone Number 1-866-303-6943

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200)

PRODUCT AS SOLD

Acute Oral Toxicity	Category 4
Acute Dermal Toxicity	Category 4
Skin Corrosion/Irritation	Category 1 Subcategory 1A
Serious Eye Damage/Eye Irritation	Category 1
Specific Target Organ Systemic Toxicity (Single Exposure)	Category 3

PRODUCT AT USE DILUTION

Acute Dermal Toxicity	Category 4
Skin Corrosion/Irritation	Category 1
Serious Eye Damage/Eye Irritation	Category 1

GHS Label elements, including precautionary statements

Emergency Overview

PRODUCT AS SOLD

Signal Word Danger

Hazard Statements

- Harmful if swallowed
- Harmful in contact with skin
- Causes severe skin burns and eye damage
- May cause respiratory irritation



Appearance White

Physical State Powder

Odor None

Precautionary Statements

Prevention

- 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
- Do not breathe dust/fume/gas/mist/vapors/spray
- Use only outdoors or in a well-ventilated area

General Advice

- IF exposed or concerned: Get medical attention/advice

Eyes

- 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/physician.

Skin

- IF ON SKIN: Wash with plenty of soap and water
- Take off contaminated clothing and wash before reuse
- If skin irritation occurs: Get medical advice/attention
- Call a POISON CENTER or a doctor/physician if you feel unwell

Inhalation

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- Call a POISIN CENTER or doctor/physician if you feel unwell

Ingestion

- IF SWALLOWED: Call a POISON CENTER or doctor/physician immediately
- Rinse mouth, sip a glass of water if able to do so.
- Do NOT induce vomiting.

Storage


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

Disposal

- Dispose of contents/container to an approved waste disposal plant

GHS Label elements, including precautionary statements

PRODUCT AT USE DILUTION	
Signal Word	Danger
Hazard Statements	
<ul style="list-style-type: none"> • Harmful if swallowed • Causes severe skin burns and eye damage 	

Emergency Overview		
		
Appearance Colorless	Physical State Liquid	Odor None
Precautionary Statements		
<p>Prevention</p> <ul style="list-style-type: none"> • Wear protective gloves / protective clothing / eye protection / face protection • Wash face, hands and exposed skin thoroughly after handling. 		
<p>General Advice</p> <ul style="list-style-type: none"> • IF exposed or concerned: Get medical attention/advice 		
<p>Eyes</p> <ul style="list-style-type: none"> • IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing • if eye irritation persists: get medical advice / attention. 		
<p>Skin</p> <ul style="list-style-type: none"> • IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water. • Wash contaminated clothing before reuse • If skin irritation occurs: Get medical advice / attention 		
<p>Inhalation</p> <ul style="list-style-type: none"> • IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing • Call a POISON CENTER or doctor / physician if you feel unwell. 		
<p>Ingestion</p> <ul style="list-style-type: none"> • IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell • Rinse mouth, sip a glass of water if able to do so. • Do NOT induce vomiting 		
<p>Storage</p> <ul style="list-style-type: none"> • Store locked up • Store in a well-ventilated place. Keep container tightly closed 		
<p>Disposal</p> <ul style="list-style-type: none"> • Dispose of contents/container to an approved waste disposal plant 		

3. COMPOSITION/INFORMATION ON INGREDIENTS

PRODUCT AS SOLD

Chemical Name	CAS-No	Weight %	Trade secret
Sodium Hydroxide	1310-73-2	30 - 60	*
Pentasodium Triphosphate	7758-29-4	10 - 30	*
Sodium Carbonate	497-19-8	5 - 10	*
Nonylphenol Ethoxylate	9016-45-9	2 - 8	*
Benzenesulphonic acid, C10-C13 alkyl derivs., sodium salts	68411-30-3	2 - 8	*
Silica, amorphous, precipitated and gel	112926-00-8	1 - 5	*

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

PRODUCT AT USE DILUTION
 Contains ingredients listed above at weight % less than 0.5%

4. FIRST AID MEASURES

PRODUCT AS SOLD

Description of necessary first-aid measures

General Advice – Immediate medical attention is required

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek immediate medical attention/advice.
Skin Contact	Wash off with warm water and soap. Remove and wash contaminated clothing before re-use. If symptoms persist, call a physician.
Ingestion	Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

Most important symptoms/effects, acute and delayed

Most Important Symptoms/Effects Slippery feeling, burning sensation on skin or eyes

Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician Treat symptomatically.

PRODUCT AT USE DILUTION	
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek immediate medical attention / advice.
Skin Contact	Wash off with warm water and soap. Remove and wash contaminated clothing before re-use. If symptoms persist, call a physician.
Ingestion	Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Seek immediate medical attention / advice.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water. Carbon dioxide (CO₂). Dry chemical.

Unsuitable Extinguishing Media None

Specific Hazards Arising from the Chemical

No information available

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.

6. ACCIDENTAL RELEASE MEASURES

PRODUCT AS SOLD

Personal precautions, protective equipment and emergency procedures

Personal Precautions Avoid contact with skin, eyes and clothing. Do not breathe spray mist. Use personal protective equipment. If spilled, take caution, as material can cause surfaces to become slippery.

Environmental Precautions

Environmental Precautions Avoid release to the environment. Collect spillage. See Section 12 for additional Ecological Information. Dispose of contents/container to an approved waste disposal plant.

Methods and materials for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Collect and reuse if possible. Following product recovery, flush area with water.

PRODUCT AT USE DILUTION	
Personal Precautions:	Avoid contact with skin, eyes and clothing. Do not breathe spray mist. Use personal protective equipment. Solution can cause surfaces to become slippery.
Environmental Precautions	Avoid release to the environment. Rinse or mop up use solutions. Small volumes may be flushed down sanitary sewer drains.
Methods for Containment	Prevent solutions from further spillage, if safe to do so.
Methods for Cleaning Up	Flush area with water.

7. HANDLING AND STORAGE

PRODUCT AS SOLD

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Do not breathe vapors or spray mist. Do not eat, drink or smoke when using this product, or its use solutions.

Conditions for safe storage, including any incompatibilities

Storage Keep container closed when not in use. Keep out of the reach of children.

Incompatible Products None known based on information supplied.

PRODUCT AT USE DILUTION	
Advice on safe handling	Do not ingest. Do not get in eyes, on skin or on clothing. Do not breathe mist. Wash hands thoroughly after handling.
Conditions for safe storage	Keep out of reach of children. Store in suitable labeled containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium Hydroxide 1310-73-2	Ceiling: 2 mg/m3	TWA: 2 mg/m3 (vacated) Ceiling: 2 mg/m3	IDLH: 10 mg/m3 Ceiling: 2 mg/m3
Silica, amorphous, precipitated and gel 112926-00-8	TWA: 10 mg/m3 (total dust)	TWA: 15 mg/m3 (total dust) 5mg/m3 (respirable dust) (vacated) TWA: 6mg/m3	-

Appropriate engineering controls

Engineering Measures Eyewash stations

Individual protection measures, such as personal protective equipment

Eye/Face Protection Tightly fitting safety goggles

Skin and Body Protection Rubber gloves. Rubber apron.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

Skin and Body Protection Rubber gloves. Rubber apron.

Hygiene Measures Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT AS SOLD

Information on basic physical and chemical properties

Physical State	Powder	Appearance	White
Odor	None	Odor Threshold	No information available
Property	Values for Product as Sold	Values for Product at Use Dilution	
pH	N/A	11.5 – 12.5	
Melting Point/Range	60 °C / 140 °F		
Boiling Point/Boiling Range	None	212 °F	
Flash Point	None.		
Evaporation rate	No data available	Physical State – Liquid	
Flammability (solid, gas)	No data available	Odor – None	
Flammability Limits in Air		Appearance - Colorless	
upper flammability limit	No data available		
lower flammability limit	No data available		
Vapor Pressure	No data available		
Vapor Density	No data available		
Relative Density	No data available		
Specific Gravity	No data available.		
Water Solubility	Complete		
Solubility in other solvents	No data available		
Partition coefficient: n-octanol/water	No data available		
Autoignition Temperature	No data available		
Decomposition Temperature	No data available		
Viscosity	No data available		
Flammable Properties	Not flammable		
Explosive Properties	Not explosive		
Oxidizing Properties	Not an oxidizer		
Other information			
VOC Content (%)	0%		

10. STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to avoid

None known based on information supplied.

Incompatible materials

None known based on information supplied.

Hazardous decomposition products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

PRODUCT AS SOLD

Information on likely routes of exposure

Product Information:

Eye Contact	Causes serious eye damage.
Skin Contact	Causes severe skin burns.
Ingestion	Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

PRODUCT AT USE DILUTION

Eye Contact	Causes serious eye damage
Skin Contact	Causes severe skin burns
Ingestion	Harmful if swallowed. Ingestion may cause gastrointestinal pain, nausea, vomiting and diarrhea.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium Hydroxide	-	= 1350 mg/kg (Rabbit)	-
Pentasodium Triphosphate	= 4640 mg/kg (Rat)	-	-
Sodium Carbonate	= 4090 mg/kg (Rat)	-	-
Nonylphenol Ethoxylate	= 3310 mg/kg (Rat)	= 2000 mg/kg (Rabbit)	-
Benzenesulphonic acid,C10-C13 alkyl derivs., sodium salts	= 1020 mg/kg (Rat)	-	-

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Delayed and immediate effects and also chronic effects from short and long term exposure

Sensitization	No information available.
Mutagenic Effects	No information available.
Carcinogenicity	Contains no carcinogenic ingredients.
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 toxicity • - Product

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

LD50 Oral	No information available.
LD50 Dermal	No information available.

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Harmful to aquatic life with long lasting effects.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Sodium Hydroxide	-	LC50 96 h: = 45.4 mg/L static (Oncorhynchus Mykiss)	-	-
Sodium Carbonate	-	LC50 96 h: = 300-320 mg/L (Bluegill Sunfish)	-	EC50 48h: = 265 mg/L (Daphnia magna)
Nonylphenol Ethoxylate	-	LC50 96 h: = 1.8 mg/L static (Bluegill Sunfish)	-	EC50 48h: = 12.2 mg/L (Daphnia magna)
Benzenesulphonic acid,C10-C13 alkyl derivs., sodium salts	EC50 96h: = 29 mg/L (Pseudokircheneriella sub.)	LC50 96 h: = 1.67 mg/L (Bluegill Sunfish)	-	EC50 48 h: = 2.9 mg/L (Daphnia magna)

Persistence and Degradability	No information available.
Bioaccumulation	No information available.

Other Adverse Effects No information available.

13. DISPOSAL CONSIDERATIONS**PRODUCT AS SOLD**

Waste Disposal Methods	Dispose of in accordance with federal, state, and local regulations
Contaminated Packaging	Dispose of in accordance with federal, state, and local regulations.

PRODUCT AT USE DILUTION

Dispose of in accordance of the federal, state, local regulations.

14. TRANSPORT INFORMATION

DOT

UN NUMBER	UN3262
Proper Shipping Name	Corrosive Solid, basic, inorganic, n.o.s.
Hazard Class	8
Packing Group	II
Reportable Quality	Sodium Hydroxide, RQ kg = 810.71
Description	UN3262, Corrosive Solid, basic, inorganic, n.o.s, (Sodium Hydroxide), 8,II, RQ
Emergency Response	154
Guide Number	

15. REGULATORY INFORMATION

International Inventories

TSCA	Complies
DSL/NDSL	Complies

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL – Canadian Domestic Substances List/Non-Domestic Substances List

U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does contain 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

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
Sodium Hydroxide	1000lb			X
Pentasodium triphosphate	5000lb			X

CERCLA

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

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Sodium Hydroxide	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ
Pentasodium triphosphate	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ

U.S. State Regulations

California Proposition 65

This product contains no Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Sodium Hydroxide	X	X	X	X	X
Pentasodium triphosphate		X	X		

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION

NFPA Health Hazard 3 Flammability 0 Instability 0 Physical and Chemical Hazards -
HMIS Health Hazard 3 Flammability 0 Physical Hazard 0 Personal Protection B

Prepared By Sunburst Chemicals
 220 West 86th Street
 Bloomington, MN 55420
 952-884-3144
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 Revision Note Update

General Disclaimer

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet