SAFETY DATA SHEET

Silverware Presoak **Revision Date** 7/21/2015

SECTION – 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME **Silverware Presoak** **PRODUCT USE** Detergent **ITEM** 681

COMPANY NAME Abernathy Company **Office** (800) 962-7498

3800 Abernathy Drive **Fax** (870) 772-2908

Texarkana AR 71854 **Web** www.abernathycompany.com

EMERGENCY TELEPHONE NUMBER **INFOTRAC** **(800) 535-5053**

SECTION – 2 HAZARDS INFORMATION

Physical Hazards None

Health Hazrds EYES-Category 1; SKIN-Category 2; STOT SINGLE EXPOSURE-Category 3

Irritant (skin)
Respiratory Tract Irritant

Eye Damage

DANGER! Causes serious eye damage, Causes skin irritation, Harmful if swallowed, May cause respiratory irritation, Do not get in eyes, on skin, or clothing, and avoid inhalation of mist, Use personal protective equipment as required, Wash thoroughly after handling, Avoid release into the environment

SECTION – 3 COMPOSITION INFORMATION

(Exact percentage of the listed chemicals of composition has been withheld as a trade secret)

CHEMICAL NAME	COMMON NAME AND SYNONYMS	CAS #	IMPURITIES	PERCENT
Sodium Metasilicate Pentahydrate	Disodium Trioxosilicate	10213-79-3		1 - 5%
2-butoxyethanol	Ethylene Glycol Monobutyl Ether	111-76-2		2 - 6%

SECTION – 4 FIRST AID MEASURES

EYE CONTACT Immediately flush eyes with cold water for at least 15 minutes while lifting upper and lower eyelids, Remove contact lenses if present and easy to do without injury to the eye and continue rinsing, If irritation persists obtain medical attention, preferably from an ophthalmologist

SKIN CONTACT Wash contaminated skin with plenty of water, Remove any contaminated clothing and wash before reuse, If irritation is present or occurs obtain medical attention

INHALATION Move person to fresh air, if they have problem breathing, show signs of overexposure or feel unwell obtain medical attention

INGESTION DO NOT INDUCE VOMITING. If person is fully conscious, rinse mouth out and give one to two glasses of water to dilute and obtain immediate medical attention. If vomiting occurs, keep head below hips to prevent aspiration into the lungs

Aspiration Hazard Not considered to be an aspiration hazard

ACUTE SYMPTOMS OF SINGLE OVEREXPOSURE

Eyes Causes serious eye irritation, redness, tearing, pain, or possible eye damage

Skin Can cause skin irritation, redness, burning, drying or cracking

Inhalation Mist may cause mild irritation, to mucus membranes or respiratory tract

Ingestion Harmful if swallowed, Can cause severe irritation, of the mouth, throat, and esophagus, Slight acute toxicity if swallowed

CHRONIC SYMPTOMS OF PROLONGED OR REPEATED OVEREXPOSURE

Eyes Causes serious eye damage, redness, tearing, severe pain, or possible corrosive burns

Skin Causes skin irritation, defatting of the skin which may lead to dermatitis

Inhalation Mist can cause irritation, to throat, mucus membranes or respiratory tract

Ingestion Harmful if swallowed, Causes severe irritation, of the mouth, throat, esophagus, and stomach, Can affect target organs, Moderate acute toxicity if swallowed

SECTION – 5 FIRE FIGHTING MEASURES

Extinguishing Media	Not flammable: Use extinguishing media for surrounding fire
Hazardous Decomposition	Burning or thermal decomposition can produce, sulfur oxides, carbon monoxide, carbon dioxide, sodium oxides, and other toxic fumes
Reactive With	Incompatible with, strong oxidizing agents
Explosion Hazards	Not applicable
Static Discharge	Not applicable
Mechanical Impact	Not applicable
Protective Equipment	Use MSHA/NIOSH approved self-contained breathing apparatus and full protective gear

FLAMMABLE LIQUIDS HAZARD CLASSIFICATION

Criteria	Flash point > 93.3ºC (200ºF)
NFPA	Class III B
GHS	Not applicable
WHMIS	Not applicable

NFPA HAZARD RATINGS

Health	2
Flammability	0
Reactivity	0
Personal Protection	FBG

SECTION – 6 ACCIDENTAL RELEASE MEASURES

Emergency Procedures	Warn personnel of spill
Personal Precautions	Ventilate area, Avoid slipping on spilled product
Protective Equipment	Safety Glasses, Chemical Gloves and Rubber Boots
Containment	Use rags, towels, absorbent socks or pads to prevent spill from spreading
Clean Up Procedures	Small Spills: Use wet vacuum or mop and wringer to pick up spilled material then mop area with clean water Large Spills: Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container Vacuum or sweep up material and place in a disposal container
Disposal	Dispose of material in accordance with all State and Federal Guidelines and Regulations

SECTION – 7 HANDLING AND STORAGE

Handling	Keep away from incompatible materials, Use appropriate safety equipment, Avoid eye and skin contact, Avoid inhalation of mist, May cause respiratory irritation, Harmful if swallowed, Wash thoroughly after handling, Avoid release to the environment
Storage	KEEP OUT OF REACH OF CHILDREN, Keep container closed when not in use, Store away from incompatible materials
Incompatible Materials	Incompatible with, strong oxidizing agents

SECTION – 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS

CHEMICAL NAME	ACGIH (TWA 8)	ACGIH (STEL)	OSHA PEL (TWA 8)	OSHA (CEIL)	Significant Exposure
Sodium Metasilicate Pentahydrate	None Established				
2-butoxyethanol	20 ppm		50 ppm (240 mg/m³)		SA

PERSONAL PROTECTIVE EQUIPMENT

Chemical Safety Glasses, Goggles or Face Shield

Impervious Chemical Gloves

Eye Wash (Recommended)

Ventilation

General Ventilation

Ventilate to keep vapors of this material below the lowest ppm listed above.
If over Threshold Limit Value use a MSHA / NIOSH approved respirator

HMIS HAZARD RATINGS

Health	2
Flammability	0
Reactivity	0
Personal Protection	B

SECTION – 9 PHYSICAL AND CHEMICAL PROPERTIES

Flash Point	> 93.3ºC (200ºF) - TAG Closed Cup	**Specific Gravity / Relative Density**	1.08
Flammable Limits	ND	**Molecular Weight**	51.06 g/mol
Auto-Ignition Temp.	ND	**Initial Boiling Point**	ND
Physical State	Liquid	**Boiling Range**	100ºC (212ºF)
Appearance	Clear Blue	**Vapor Pressure**	ND
Odor	Pleasant	**Vapor Density**	ND
Odor Threshold	ND	**Freeze Point**	0ºC (32ºF)
Solubility	100%	**Melting Point**	ND
Volatiles	< 90%	**Partition Coefficient**	ND
VOC	< 3%	**Decomposition Temperature**	ND
pH (± 0.3)	12.5	**Evaporation Rate**	ND

SECTION – 10 STABILITY AND REACTIVITY

Reactivity (Specific Test Data)	None available
Chemical Stability	Stable when stored below 49ºC (120ºF)
Hazardous Polymerization	Will not occur
Conditions To Avoid	Incompatible materials
Incompatible Materials	Incompatible with, strong oxidizing agents
Thermal Decomposition	Burning or thermal decomposition can produce, sulfur oxides, carbon monoxide, carbon dioxide, sodium oxides, and other toxic fumes

SECTION – 11 TOXICOLOGICAL INFORMATION

ROUTES OF EXPOSURE

Eyes (Yes), Skin (Yes), Inhalation (Yes "Mist"), Ingestion (Yes)

ACUTE SYMPTOMS OF SINGLE OVEREXPOSURE

Eyes	Causes serious eye irritation, redness, tearing, pain, or possible eye damage
Skin	Can cause skin irritation, redness, burning, drying or cracking
Inhalation	Mist may cause mild irritation, to mucus membranes or respiratory tract
Ingestion	Harmful if swallowed, Can cause severe irritation, of the mouth, throat, and esophagus, Slight acute toxicity if swallowed

CHRONIC SYMPTOMS OF PROLONGED OR REPEATED OVEREXPOSURE

Eyes	Causes serious eye damage, redness, tearing, severe pain, or possible corrosive burns
Skin	Causes skin irritation, defatting of the skin which may lead to dermatitis
Inhalation	Mist can cause irritation, to throat, mucus membranes or respiratory tract
Ingestion	Harmful if swallowed, Causes severe irritation, of the mouth, throat, esophagus, and stomach, Can affect target organs, Moderate acute toxicity if swallowed

Acute Tox Calculated **Oral:** 6,026 mg/kg **Dermal:** 20,332 mg/kg **Inhaled:** 530.7 mg/L

Acute Tox Category Not applicable (Oral > 2,000 mg/kg), Not applicable (Dermal > 2,000 mg/kg), Not applicable (Inhaled > 20 mg/L) Vapors

Additional Info

Target Organs	Kidneys, Liver, Respiratory Tract, Eyes (Lens or cornea), Skin
Medical Conditions	Preexisting, eye, skin, liver, kidney, respiratory, disorders may be aggravated by exposure to this product
Notes to Physician	In case of ingestion, gastric lavage with activated charcoal can be used promptly to prevent absorption

CARCINOGENIC – This product contains concentrations above 0.1% of the following:

CHEMICAL NAME	NTP	ACGIH	IARC	GHS Category
None Listed	NA	NA	NA	NA

MUTAGENIC AND REPRODUCTIVE EFFECTS – May cause fetal and reproductive abnormalities.

CHEMICAL NAME	Germ Cell Mutagenicity	Toxic to Reproduction
None Listed	NA	NA

COMPONENTS ACUTE TOXICITY

CHEMICAL NAME	Type	Form	Subject	Result Value	Exposure Time	GHS Category
Sodium Metasilicate Pentahydrate	LD50	Oral	Rat	847 mg/kg		4 (>300, ≤2000 mg/kg)
	LD50	Rat	Dermal	> 5000 mg/kg		(>2000 mg/kg)
2-butoxyethanol	LD50	Oral	Rat	530 mg/kg		4 (>300, ≤2000 mg/kg)
	LD50	Dermal	Guinea Pig	1650 mg/kg		4 (>1000, ≤2000 mg/kg)
	LC50	Inhaled	Rat	15.95 mg/L	4 Hours (Vapor)	4 (>10, ≤20 mg/L)

SECTION – 12 ECOLOGICAL INFORMATION

CHEMICAL NAME	Type	Subject	Subject Latin	Result Value	Exposure Time	GHS Category
Sodium Metasilicate Pentahydrate	LC50	Zebrafish	(Brachydanio rerio)	210 mg/L	96 Hours	4 (>100 mg/L)
	EC50	Water Flea	(Daphnia magna)	1700 mg/L	48 Hours	4 (>100 mg/L)
2-butoxyethanol	EC50	Water Flea	(Daphnia magna)	1,815 mg/L	24 Hours	4 (>100 mg/L)
	LC50	Bluegill	(Lepomis macrochirus)	220 mg/L	96 Hours	4 (>100 mg/L)

Presistence And Degradability This product is inherently biodegradable according to the OECD definition

Bioaccumulative Potential No data available

Mobility In Soil No data available

Other Adverse Effects May be harmful to aquatic organisms due to pH shift

SECTION – 13 DISPOSAL CONSIDERATIONS

DO NOT DUMP INTO ANY STORM SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER
Dispose of any waste in accordance with all State and Federal Guidelines and Regulations

ENVIRONMENTAL FATE

Under RCRA rules, it is the responsibility of the user of the product to determine, at the time of disposal, whether the material is a hazardous waste.

Chemical additions, processing or otherwise altering this material may make the waste management information presented in this SDS incomplete, inaccurate, or otherwise inappropriate.

SECTION – 14 TRANSPORT INFORMATION

D.O.T. CLASSIFICATION

UN Number	Proper Shipping Name	n.o.s. (Chemicals) or "Limits"
Not Regulated	Non Hazardous – Compounds Cleaning Liquid	

Hazard Class	Packing Group	Label Codes	Reportable Quantity (lbs)	Response Code	Marine Pollutant
None	None	None	None	154	No

SECTION – 15 REGULATORY INFORMATION

TSCA

CHEMICAL NAME	Sec 8(b) Inventory	Sec 8(d) Health And Safety	Sec 4(a) Chemical Test Rules	Sec 12(b) Export Notification
Sodium Metasilicate Pentahydrate	Yes			
2-butoxyethanol	Yes	Yes		

REPORTABLE QUANTITIES

	Extremely Hazardous		Reportable Quantity	Emission Reporting		
CHEMICAL NAME	EPCRA TPQ Sec 302	EPCRA RQ Sec 304	CERCLA RQ Sec 103	TRI Sec 313	RCRA Code	RMP TQ Sec 112r
Glycol Ethers				Yes		

SARA

	Section 311	Section 311 / 312 Hazards				
CHEMICAL NAME	Hazardous Chemical	Acute	Chronic	Flammable	Pressure	Reactive
Sodium Metasilicate Pentahydrate	Yes	Yes				
2-butoxyethanol	Yes	Yes	Yes	Yes		

RIGHT TO KNOW

	STATE												
CHEMICAL NAME	CA	CT	FL	IL	LA	NJ	NY	PA	MI	MN	MA	RI	WI
Sodium Metasilicate Pentahydrate						Yes		Yes					
2-butoxyethanol						Yes		Yes			Yes		

CALIFORNIA WARNING! This product contains chemicals known to the state of California to cause:

CHEMICAL NAME	CAS #	Birth Defects	Reproductive Harm	Carcinogen	Developmental
None Listed					

CLEAN AIR WATER ACTS

		Clean Air Acts			Clean Water Acts		
CHEMICAL NAME	CAS #	HAP	Ozone Class 1	Ozone Class 2	HS	PP	TP
None Listed							

INTERNATIONAL REGULATIONS – The components of this product are listed on the chemical inventories of the following countries:

CHEMICAL NAME	Australia	Canada	Europe (EINECS)	Japan	Korea	UK
2-butoxyethanol	Yes	Yes	Yes	Yes	Yes	Yes

WHMIS Classification

CHEMICAL NAME	DSL	Class	Description
2-butoxyethanol	Yes	D-2B	Materials Causing Other Toxic Effects; Toxic Material

SECTION – 16 OTHER INFORMATION

Standard Risk And Safety Phrases

Code	Definition (R-Phrases / S-Phrases)
R22	Harmful if swallowed
R36/37/38	Irritating to eyes, respiratory system and skin
S2	Keep out of the reach of children
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S61	Avoid release to the environment
S62	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label where possible
S24/25	Avoid contact with skin and eyes
S37/39	Wear suitable gloves and eye/face protection

SDS	LEGEND DESCRIPTION		
ACGIH	American Conference of Governmental Industrial Hygienists	**LC50**	A concentration that is lethal to 50% of a given species in a given time
CAS	Chemical Abstracts Service Registry	**LD50**	Dose that is lethal to 50% of a given species by a given route of exposure
CEIL	Ceiling Limit (15 minutes)	**LEL**	Lower Explosive Limit
CERCL	Comprehensive Environmental Response, Compensation, and Liability Act	**LD**	Liver Damage
CI	Cochlear Impairment	**NA**	Not Applicable
CNS	Central Nervous System	**ND**	Not Determined
EC50	Concentration of a chemical that gives half-maximal response	**NFPA**	National Fire Protection Association
EPA	Environmental Protection Agency	**NIOSH**	National Institute for Occupational Safety and Health
Eye	(EI = Irritation) (ED = Damage) (EV = Visual Impairment)	**NE**	Not Established
FBG	Full Bunker Gear	**NTP**	National Toxicology Program
GHS	Globally Harmonized System	**OSHA**	Occupational Safety and Health Administration
HAP	California Hazardous air pollutant Clean Air Act	**PEL**	Permissible Exposure Limit (OSHA)
HMIS-A	Safety Glasses	**PNS**	Peripheral Nervous System
HMIS-B	Safety glasses, gloves	**PP**	California Priority Pollutant under the Clean Water Act
HMIS-C	Safety glasses, gloves, chemical apron	**REL**	Recommended exposure limit (NIOSH)
HMIS-D	Face shield, gloves, chemical apron	**RT**	Upper Respiratory Tract
HMIS-E	Safety glasses, gloves, dust respirator	**Skin**	(SI = Irritation) (SD = Damage) (SA = Absorption) (SS = Sensitizer)
HMIS-F	Safety glasses, gloves, chemical apron, dust respirator	**SARA**	Superfund Amendments and Reauthorization Act
HMIS-G	Safety glasses, gloves, vapor respirator	**STEL**	Short Term Exposure Limit (15 minutes)
HMIS-H	Splash goggles, gloves, chemical apron, vapor respirator	**TC Lo**	Air concentration that is lethal to 50% of a given species in a given time
HMIS-I	Safety glasses, gloves, dust and vapor respirator	**TD Lo**	Lowest dose that is toxic to a given species
HMIS-J	Splash goggles, gloves, chemical apron, dust and vapor respirator	**TLV**	Threshold Limit Value (ACGIH)
HMIS-K	Air line hood or mask, gloves, full chemical suit, boots	**TP**	California Toxic Pollutant under the Clean Water Act
HMIS-X	Ask Supervisor	**TSCA**	Toxic Substances Control Act
HS	California Hazardous Substance under the Clean Water Act	**TWA**	Time Weighted Average (8 hours)
KD	Kidney Damage (nephropathy)	**UEL**	Upper Explosive Limit

Abernathy Company

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