Safety Data Sheet

Issue Date: 08-Aug-2011 **Revision Date:** 19-Feb-2015 **Version** 1.1

1. IDENTIFICATION

Product Identifier

Product Name Nattura powder presoak & destainer

Other Means of Identification

Product Code 958000

Recommended Use of the Chemical and Restrictions on Use

Recommended Use Silverware presoak. For industrial use.

Details of the Supplier of the Safety Data Sheet

Midlab, Inc.
140 Private Brand Way
Athens, TN 37303

Emergency Telephone Number

Company Phone Number Phone: 1-423-337-3180
Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION*

Appearance White **Physical State** Powder **Odor** None

Classification

Acute Toxicity- Oral	Category 5
Acute Toxicity- Dermal	Category 5
Skin Corrosion/Irritation	Category 2 Sub-category B
Serious Eye Damage/Eye Irritation	Category 2 Sub-category A

Signal Word
Warning

Hazard Statements
May be harmful if swallowed or in contact with skin.
Causes skin irritation.
Causes serious eye irritation.

Precautionary Statements - Prevention
Wash face, hands and any exposed skin thoroughly after handling.
Wear protective gloves and glasses.

Precautionary Statements - Response
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.
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.
Call a POISON CENTER or doctor/physician if you feel unwell.
SPECIFIC TREATMENT: Remove from exposure and treat symptoms.

Precautionary Statements - Storage
No other specific measures identified.

Precautionary Statements - Disposal
No other specific measures identified.

Hazards Not Otherwise Classified (HNOC)
None known.

Unknown Acute Toxicity
None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Sodium Chloride	7647-14-5	15-40
Sodium Carbonate	497-19-8	15-40
Sodium Sulfate	7757-82-6	10-30
Sodium Citrate	6132-04-3	10-30
Sodium Percarbonate	15630-89-4	5-10
Polymer	Proprietary	3-7
Citric Acid	77-92-9	1-5
Modified Fatty Alcohol Polyglycol Ether	Proprietary	1-5

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

First Aid Measures

Eye Contact Exposure may cause irritation and redness. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists: Get medical advice/attention.

Skin Contact Prolonged or repeated exposure may dry skin and cause irritation. Flush skin with water for 15 minutes. If irritation or rash persists, get medical attention.

Inhalation If breathing becomes difficult, remove victim to fresh air. Call a physician if you feel unwell.

Ingestion Rinse mouth and drink plenty of water. Do NOT induce vomiting unless directed to do so by a qualified medical personnel. Never give anything by mouth to an unconscious person. If any discomfort persists, obtain medical attention.

Most Important Symptoms and Effects

Symptoms Contact with eyes may cause irritation and redness. Prolonged or repeated contact may dry skin and cause irritation. Repeated contact may cause allergic reactions in very susceptible persons.

Indication of Any Immediate Medical Attention and Special Treatment Needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

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

Unsuitable Extinguishing Media
Not determined.

Specific Hazards Arising from the Chemical
None known.

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

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions Use personal protection recommended in Section 8.

Environmental Precautions Avoid release to the environment.

Methods and Material for Containment and Cleaning Up

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

Methods for Clean-Up Collect in a clean, dry waste container for disposal. Dispose of in accordance with federal, state and local regulations. Use a water rinse for final clean up.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Advice on Safe Handling Wash thoroughly after handling. Use personal protection recommended in Section 8. Avoid breathing dust or fume. Use only in well-ventilated areas. Avoid contact with eyes and skin. 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 out of the reach of children. Keep from freezing.

Incompatible Materials None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium Chloride 7647-14-5	TWA: 15 mg/m^3	-	-
Sodium Carbonate 497-19-8	-	15mg/m^3	-
Sodium Percarbonate 15630-89-4	10mg/m^3 (SAEL)	5mg/m^3	-
Sodium Silicate 6834-92-0 +(Manufacturer recommended limits)	2mg/m^{3+}	2mg/m^3	-
Polymer Proprietary	10mg/m^3	-	-
Citric Acid 77-92-9	5mg/m^3	5mg/m^3	-
Modified Fatty Alcohol Polyglycol Ether Proprietary +(Inhalable particles/respirable particles)	10mg/m^{3+} 3mg/m^{3+}	15mg/m^3 (Total dust)	-

Appropriate Engineering Controls

Engineering Controls General ventilation sufficient.

Individual Protection Measures, such as Personal Protective Equipment

Eye/Face Protection Eye protection should be worn when splashing may occur.

Skin and Body Protection Wear suitable gloves when handling this product.

Respiratory Protection No protective equipment is needed under normal use conditions.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	Powder		
Appearance	White	**Odor**	None
Color	White	**Odor Threshold**	Not determined

Property	**Values**	**Remarks • Method**
pH (1%)	9.5-10.0	(1% solution)
Melting Point/Freezing Point	Not determined	
Boiling Point/Boiling Range	Not determined	
Flash Point	None (not flammable)	Tag Open Cup
Evaporation Rate	Not determined	
Flammability (Solid, Gas)	Not flammable	
Upper Flammability Limits	Not determined	
Lower Flammability Limit	Not determined	
Vapor Pressure	Not determined	
Vapor Density	Not determined	
Specific Gravity	Not determined	
Water Solubility	Moderate in water @ 25°C	
Solubility in other solvents	Not determined	
Partition Coefficient	Not determined	
Auto-ignition Temperature	Not determined	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	
Dynamic Viscosity	Not determined	
Explosive Properties	Not determined	
Oxidizing Properties	Not determined	

10. STABILITY AND REACTIVITY

Reactivity
Not reactive under normal conditions.

Chemical Stability
Stable under recommended storage conditions.

Possibility of Hazardous Reactions
None under normal processing.

Hazardous Polymerization
Hazardous polymerization does not occur.

Conditions to Avoid
Keep out of reach of children. Avoid concentrated acids, bases, heavy metal salts, flammable materials, combustible materials, and moisture.

Incompatible Materials
None known.

Hazardous Decomposition Products
Thermal decomposition may result in the formation of oxides of sulfur, carbon dioxide, hydrogen, and oxygen.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Product Information

Eye Contact Causes eye irritation.

Skin Contact May cause skin irritation or rash.

Inhalation Avoid breathing dust.

Ingestion May be harmful if swallowed.

Chronic Effects Excessive, long term contact may produce “soda ulcers” on hands and perforation of the nasal septum. Sensitivity reactions may occur from prolonged and repeated exposure. Risk of throat, nose bleeds and chronic bronchitis.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium Chloride 7647-14-5	3000mg/kg	10000mg/kg	>42000mg/m^3 (Rat)
Sodium Carbonate 497-19-8	= 4090mg/kg (Rat)	2000mg/kg	800mg/m^3 (Guinea Pig)
Sodium Sulfate 7757-82-6	> 10000mg/kg (Rat)	4000mg/kg	-
Sodium Citrate 6132-04-3	> 8000 mg/kg (Rat)	-	-
Sodium Percarbonate 15630-89-4	1034mg/kg	2000mg/kg	>4580mg/m^3 (Rat)
Sodium Silicate 6834-92-0	1280mg/kg	1380mg/kg	-
Polymer Proprietary	5000mg/kg	4000mg/kg	-
Citric Acid 77-92-9	3000mg/kg	4000mg/kg	-
Modified Fatty Alcohol Polyglycol Ether Proprietary	2000mg/kg	2000mg/kg	-

Information on Physical, Chemical and Toxicological Effects

Symptoms Please see section 4 of this SDS for symptoms.

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-Term Exposure

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Numerical Measures of Toxicity
Not determined

Unknown Acute Toxicity None known.

12. ECOLOGICAL INFORMATION

Ecotoxicity
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Sodium Chloride 7647-14-5	-	5840mg/L (Bluegill 96hr)	-	1661mg/L (Daphnia 48hr)
Sodium Carbonate 497-19-8	14mg/L (Phytoplankton 7d)	300-320mg/L (Bluegill 96hr)	-	265mg/L (Daphnia 45hr)
Sodium Sulfate 7757-82-6	-	56mg/L (96hr)	-	3150mg/L (Daphnia 48hr)
Sodium Citrate 6132-04-3	-	18000-32000mg/L (Guppy 96hr)	-	-
Sodium Percarbonate 15630-89-4	-	71mg/L (Fathead minnow)	-	4.9mg/L (Daphnia 96hr)
Sodium Silicate 6834-92-0	-	2320mg/L (Mosquito fish 96hr)	-	247mg/L (Daphnia 96hr)

Citric Acid 77-92-9	-	440-706mg/L (Goldfish 96hr)	-	-
Modified Fatty Alcohol Polyglycol Ether Proprietary	>100mg/L	>100mg/L	-	-

Persistence/Degradability
Not determined.

Bioaccumulation
Not determined.

Mobility
Not determined

Other Adverse Effects
Not determined

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

14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT Not regulated

IATA Not regulated

IMDG Not regulated

15. REGULATORY INFORMATION

International Inventories
Not determined

US Federal Regulations

CERCLA
Maleic acids: 5000lbs. Acrylamide: 5000lbs. Acrylic Acid: 5000lbs. Sodium Percarbonate: 100lbs.

SARA 311/312 Hazard Categories
Immediate (Acute) Health and Delayed (Chronic) Health.

SARA 313
Not determined

US State Regulations

U.S. State Right-to-Know Regulations
The following ingredients appear on various state right to know lists and/or California's Proposition 65 list:

Chemical Name	State List
Sodium Chloride 7647-14-5	NJ, PA
Sodium Sulfate 7757-82-6	NJ, MA, PA

Sodium Percarbonate 15630-89-4	NJ
Polymer Proprietary (maleic acid, acrylamide, acrylic acid, mequionol)	NJ, MA, PA
Acrylamide 79-06-1	CAP65
Ethylene Oxide 75-07-0 <0.1ppm	CAP65
Acetaldehyde (Inhalation) 75-07-0	CAP65
1,4-Dioxane 123-91-1 <0.1ppm	CAP65

AZ- Arizona Ambient Air Quality Guidelines
CT- Connecticut Hazardous Air Pollutants
CA- California Director's List of Hazardous Substances
CAP65- California Prop65
FL- Florida Substances List
ID- Idaho Non-Carcinogen Toxic Air Pollutants
IL- Illinois Toxic Air Contaminate- Carcinogenic
MA- Massachusetts Right to Know List
MN- Minnesota Hazardous Substances List
NJ- New Jersey Right to Know List
PA- Pennsylvania Right to Know List
RI- Rhode Island Hazardous Substances List

16. OTHER INFORMATION

NFPA	**Health Hazards**	**Flammability**	**Instability**	**Special Hazards**
	Not determined	Not determined	Not determined	Not determined
HMIS	**Health Hazards**	**Flammability**	**Physical Hazards**	**Personal Protection**
	2	0	0	Not determined

Issue Date: 08-Aug-2011
Revision Date: 19-Feb-2015
Revision Note: Updated Classification Information Version 1.1

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 information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Keep Out of Reach of Children. For Industrial and Institutional Use Only.

*****Denotes changes from last version.

End of Safety Data Sheet