



# Safety Data Sheet

Issue Date: 12-Apr-2012

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Version 1.1

## 1. IDENTIFICATION

### Product Identifier

**Product Name** Nattura ecodish

### Other Means of Identification

**Product Code** 959200

### Recommended Use of the Chemical and Restrictions on Use

**Recommended Use** Powdered dish detergent portion pack. 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
Respiratory or Skin Sensitization	Category 1 Sub-category B

### Signal Word

**Warning**

### Hazard Statements

May be harmful if swallowed or in contact with skin.  
Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye irritation.



### Precautionary Statements - Prevention

Avoid breathing dust/fume/gas/mist/vapors/spray.  
Wash face, hands and any exposed skin thoroughly after handling.  
Contaminated work clothing should not be allowed out of the workplace.  
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 persists: Get medical advice/attention.  
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**

Dispose of contents/container in accordance with local, regional, or national regulation.

**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**

<b>Eye Contact</b>	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.
<b>Skin Contact</b>	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.
<b>Inhalation</b>	If breathing becomes difficult, remove victim to fresh air. Call a physician if you feel unwell.
<b>Ingestion</b>	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**

<b>Symptoms</b>	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.
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**Indication of Any Immediate Medical Attention and Special Treatment Needed**

<b>Notes to Physician</b>	Treat symptomatically.
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**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 <sup>3</sup>	-	-
Sodium Carbonate 497-19-8	-	15mg/m <sup>3</sup>	-
Sodium Percarbonate 15630-89-4	10mg/m <sup>3</sup> (SAEL)	5mg/m <sup>3</sup>	-
Sodium Silicate 6834-92-0 +(Manufacturer recommended limits)	2mg/m <sup>3+</sup>	2mg/m <sup>3</sup>	-
Polymer Proprietary	10mg/m <sup>3</sup>	-	-
Citric Acid 77-92-9	5mg/m <sup>3</sup>	5mg/m <sup>3</sup>	-
Modified Fatty Alcohol Polyglycol Ether Proprietary +(Inhalable particles/respirable particles)	10mg/m <sup>3+</sup> 3mg/m <sup>3+</sup>	15mg/m <sup>3</sup> (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.

<b>Skin and Body Protection</b>	Wear suitable gloves when handling this product.
<b>Respiratory Protection</b>	No protective equipment is needed under normal use conditions.
<b>General Hygiene Considerations</b>	Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on Basic Physical and Chemical Properties

<b>Physical State</b>	Powder	<b>Odor</b>	None
<b>Appearance</b>	White	<b>Odor Threshold</b>	Not determined
<b>Color</b>	White		
<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks • Method</u></b>	
pH (1%)	10.0-10.5	(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 Applicable		
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**

<b>Eye Contact</b>	Causes eye irritation.
<b>Skin Contact</b>	May cause skin irritation or rash.
<b>Inhalation</b>	Avoid breathing dust.
<b>Ingestion</b>	May be harmful if swallowed.
<b>Chronic Effects</b>	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 <sup>3</sup> (Rat)
Sodium Carbonate 497-19-8	= 4090mg/kg (Rat)	2000mg/kg	800mg/m <sup>3</sup> (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 <sup>3</sup> (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**

<b><u>NFPA</u></b>	<b>Health Hazards</b>	<b>Flammability</b>	<b>Instability</b>	<b>Special Hazards</b>
	Not determined	Not determined	Not determined	Not determined
<b><u>HMIS</u></b>	<b>Health Hazards</b>	<b>Flammability</b>	<b>Physical Hazards</b>	<b>Personal Protection</b>
	2	0	0	Not determined

**Issue Date:** 12-Apr-2012  
**Revision Date:** 02-Dec-2013  
**Revision Note:** New format 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**