1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Swisher Nu Starch
Product code: 40314-5
Recommended Use: Laundry starch

Distributor:
Swisher Hygiene Inc.
4725 Piedmont Row Drive,
Suite 400,
Charlotte, NC 28210

Chemical Emergency Phone Number: 800-424-9300 (Chemtrec)
Company Emergency Phone Number: 800-444-4138

2. HAZARDS IDENTIFICATION

Emergency Overview
The product contains no substances which at their given concentration, are considered to be hazardous to health.

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Physical state</th>
<th>Odor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thick Liquid</td>
<td>liquid.</td>
<td>Pleasant</td>
</tr>
</tbody>
</table>

Potential Health Effects

Acute toxicity

<table>
<thead>
<tr>
<th>Eyes</th>
<th>May cause slight irritation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin</td>
<td>No known effect based on information supplied</td>
</tr>
<tr>
<td>Inhalation</td>
<td>No known effect based on information supplied</td>
</tr>
<tr>
<td>Ingestion</td>
<td>No known effect based on information supplied</td>
</tr>
</tbody>
</table>

Chronic Effects: No known effect based on information supplied

Aggravated Medical Conditions: None known.

Environmental hazard: See Section 12 for additional Ecological Information

3. COMPOSITION/INFORMATION ON INGREDIENTS

The product contains no substances which at their given concentration, are considered to be hazardous to health.

4. FIRST AID MEASURES

Eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
5. FIRE-FIGHTING MEASURES

Flammable Properties Not flammable
Flash point Not determined.
Suitable Extinguishing Media Use water spray or fog, foam, dry chemical, carbon dioxide, alcohol foam, if product is involved.
Hazardous Combustion Products If burned, normal combustion products: Carbon dioxide, Carbon monoxide; Nitrous oxides.
Explosion Data
Sensitivity to Mechanical Impact none
Sensitivity to Static Discharge none
Specific hazards arising from the chemical Use water spray to cool adjacent fire exposed containers. With intense heat and upon drying out, solids will support combustion.
Protective Equipment and Precautions for Firefighters Avoid exposure to fumes or vapors. Wear self-contained positive pressurized breathing apparatus MSHA/NIOSH approved or equivalent to maintain TLV.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Ensure adequate ventilation
Environmental precautions Try to prevent the material from entering drains or water courses
Methods for Containment Prevent further leakage or spillage if safe to do so
Methods for cleaning up Mop up & flush to sewer with plenty of water. Floors may be slippery. Use care to avoid falls.

7. HANDLING AND STORAGE

Advice on safe handling KEEP OUT OF REACH OF CHILDREN CAUTION Do not get in eyes, on skin or on clothing
Technical measures/Storage conditions Store upright in original container. Avoid all contact.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION
Exposure Guidelines  
Review Section 3 & 4 for Exposure Guidelines.

Engineering Measures  
Showers  
Eyewash stations  
Ventilation systems

Personal Protective Equipment Institutional Environment  
**Eye/Face Protection**  
Safety glasses are suggested when using this product in heavy use and institutional environments.

**Consumer Environments**  
Care should be taken to avoid Eye contact.

**Skin and body protection**  
Rubber gloves

**Respiratory protection**  
Unnecessary in open institutional environment.

**Hygiene measures**  
Practice good personal hygiene. Wash after handling.

Personal Protective Equipment Industrial Environment  
**Eye/Face Protection**  
Splash-proof chemical goggles or face shield.

**Skin and body protection**  
Impervious rubber, alkali-proof protective gloves Impervious rubber boots & apron.

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

**Hygiene measures**  
Practice good personal hygiene. Wash after handling. Shower at end of work period

Practice good personal hygiene. Wash after handling

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks</th>
<th>Methods</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Physical state</strong></td>
<td>liquid</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Appearance</strong></td>
<td>Thick Liquid</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Color</strong></td>
<td>white</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Odor</strong></td>
<td>Pleasant</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Odor Threshold</strong></td>
<td>No information available</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>NE</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Melting/freezing point</strong></td>
<td></td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Freezing Point</strong></td>
<td></td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Boiling point/boiling range</strong></td>
<td>210 °F</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Flash Point</strong></td>
<td></td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
<td>&gt;1.00</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Flammability (solid, gas)</strong></td>
<td></td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Flammability Limits in Air</strong></td>
<td></td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>upper flammability limit</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>lower flammability limit</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Explosion Limits</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>upper</td>
<td>17</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>lower</td>
<td>0.62</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Vapor density</strong></td>
<td>1.065</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Specific Gravity</strong></td>
<td>completely soluble</td>
<td></td>
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</tr>
<tr>
<td><strong>Water solubility</strong></td>
<td></td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Solubility in other solvents</strong></td>
<td></td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Partition coefficient: n-octanol/water</strong></td>
<td></td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Autoignition temperature</strong></td>
<td></td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Decomposition temperature</strong></td>
<td></td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Viscosity, kinematic</strong></td>
<td></td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Viscosity, dynamic</strong></td>
<td></td>
<td></td>
<td>No information available</td>
</tr>
</tbody>
</table>
9.2 Other information

<table>
<thead>
<tr>
<th>Property</th>
<th>Information Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Explosive properties</td>
<td>No information available</td>
</tr>
<tr>
<td>Oxidizing Properties</td>
<td>No information available</td>
</tr>
<tr>
<td>Softening point</td>
<td>No information available</td>
</tr>
<tr>
<td>Molecular Weight</td>
<td>No information available</td>
</tr>
<tr>
<td>VOC Content(%)</td>
<td>No information available</td>
</tr>
<tr>
<td>Density VALUE</td>
<td>No information available</td>
</tr>
<tr>
<td>Bulk Density VALUE</td>
<td>No information available</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

- **Stability**: Stable, protect from freezing.
- **Incompatible products**: All aqueous reactive chemicals.
- **Conditions to Avoid**: None known based on information supplied
- **Hazardous Decomposition Products**: If burned, normal combustion products: Carbon dioxide, Carbon monoxide; Nitrous oxides.
- **Hazardous Polymerization**: Hazardous polymerization does not occur

11. TOXICOLOGICAL INFORMATION

- **Acute toxicity**: Product does not present an acute toxicity hazard based on known or supplied information.
- **Target Organ Effects**: None known.

12. ECOLOGICAL INFORMATION

- **Ecotoxicity**: The environmental impact of this product has not been fully investigated

13. DISPOSAL CONSIDERATIONS

- **Waste Disposal Methods**: This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements
- **Contaminated packaging**: Do not re-use empty containers
14. TRANSPORT INFORMATION

Note
Cleaning Compound, Not Regulated

Dot
Not regulated

Proper shipping name
Cleaning Compound, Not Regulated

TDG
Not regulated

MEX
Not regulated

ICAO
Not regulated

ICAO/IATA
Not regulated

IMDG / IMO
Not regulated

RID
Not regulated

ADR/RID
Not regulated

ADN
Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA
TSCA

DSL
Complies

NDSL
Complies

EINECS
Complies

ELINCS
Complies

ENCS
Complies

IECSC
Complies

KECL
Complies

PICCS
Complies

AICS
Complies

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 Commercial Chemical Substances/EU List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

U.S. 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

<table>
<thead>
<tr>
<th>Category</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Health Hazard</td>
<td>no</td>
</tr>
<tr>
<td>Chronic Health Hazard</td>
<td>no</td>
</tr>
<tr>
<td>Fire Hazard</td>
<td>no</td>
</tr>
<tr>
<td>Sudden Release of Pressure Hazard</td>
<td>no</td>
</tr>
<tr>
<td>Reactive Hazard</td>
<td>no</td>
</tr>
</tbody>
</table>
Clean Water Act
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

International Regulations

Canada
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

16. OTHER INFORMATION

Prepared By
Swisher Hygiene Inc.
4725 Piedmont Row Drive
Suite 400
Charlotte, NC 28210

Issuing date
24-Oct-2011

Revision Date
24-Oct-2011

Revision Note
No information available

Disclaimer
The information provided on this MSDS 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 Material Safety Data Sheet