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

Product Name: Ecoworks™ Cleaning Agent
SSYS Part Number: 400619-0001
Synonyms: Alkaline cleaning agent
Recommended Use: Additive manufacturing

Emergency Telephone Number:
- 1(952) 937 3000
- 852-93224624
- +49 722 97772281 - Global - English language response
- +85 2 975 70887 - Asia Pacific - Multi lingual response
- +86 15626070595 - China - Chinese response

E-mail Address: objet-info@stratasys.com
Registration Number: No information available.

2. HAZARDS IDENTIFICATION

GHS-Classification

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Oral Toxicity</td>
<td>Category 4</td>
</tr>
<tr>
<td>Serious Eye Damage/Eye Irritation</td>
<td>Category 2</td>
</tr>
<tr>
<td>Acute Aquatic Toxicity</td>
<td>Category 2</td>
</tr>
</tbody>
</table>

Physical Hazards
None

GHS Label elements, including precautionary statements

Signal Word: Warning
Hazard Statements
• Harmful if swallowed
• Causes serious eye irritation
• Toxic to aquatic life

Precautionary Statements
Prevention
• Wash face, hands and any exposed skin thoroughly after handling.
• Do not eat, drink or smoke when using this product.
• Wear eye/face protection.
• Avoid release to the environment.

Eyes
• 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.

Ingestion
• IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
• Rinse mouth.

Disposal
• Dispose of contents/container to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>EC-No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium percarbonate</td>
<td>15630-89-4</td>
<td>45-55</td>
<td>Present</td>
</tr>
<tr>
<td>Sodium carbonate</td>
<td>497-19-8</td>
<td>15-25</td>
<td>Present</td>
</tr>
<tr>
<td>Tetrasodium N,N-bis(carboxylatomethyl)-L-glutamate</td>
<td>51981-21-6</td>
<td>10-20</td>
<td>257-573-7</td>
</tr>
<tr>
<td>Citric acid</td>
<td>77-92-9</td>
<td>10-20</td>
<td>Present</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

Eye Contact
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

Skin Contact
Wash skin with soap and water. If skin irritation persists, call a physician.

Inhalation
Move to fresh air. If symptoms persist, call a physician.

Ingestion
Drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician if necessary.

Notes to Physician
Treat symptomatically.

Protection of First-aiders
Use personal protective equipment.

5. FIRE-FIGHTING MEASURES

Flammable Properties
Not flammable.

Suitable Extinguishing Media
Unsuitable Extinguishing Media
No information available.

Specific Hazards Arising from the Chemical
Burning produces obnoxious and toxic fumes. Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides (NOx)

Protective Equipment and Precautions for Firefighters
Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions
Avoid contact with skin, eyes and clothing. Use personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Avoid inhalation of dust. High risk of slipping due to leakage/spillage of product.

Environmental Precautions
Avoid release to the environment. See Section 12 for additional Ecological Information.

Methods for Cleaning Up
Sweep up and shovel into suitable containers for disposal.

Other Information
Not applicable.

7. HANDLING AND STORAGE

Handling
Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Do not eat, drink or smoke when using this product. Do not take internally. Wash thoroughly after handling.

Storage
Keep tightly closed in a dry and cool place. Keep away from direct sunlight. Keep away from heat. Store away from incompatible materials. See Section 10 for Incompatibles.

Incompatible Products
Strong oxidizing agents. Strong reducing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines
This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Measures
Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment
Eye/Face Protection
Tightly fitting safety goggles.

Skin and Body Protection
No protective equipment is needed under normal use conditions.

Hand Protection
Protective gloves.

Respiratory Protection
No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.

Hygiene Measures
When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State
Solid (powder)

Appearance
White

Odor
None

Odor Threshold
No information available

pH
No data available

Melting Point/Range
No data available

Freezing Point
No information available.

Initial Boiling Point
No information available.
Boiling Point/Boiling Range  No data available
Flash Point  Not determined.
Evaporation Rate  No data available
Flammable Properties  Not flammable.
Explosive Properties  No information available
Oxidizing Properties  No information available
Vapor Pressure  No data available.
Vapor Density  No data available.
Specific Gravity  No data available.
Water Solubility  No data available.
Solubility  No information available.
Partition Coefficient: n-octanol/water  No data available.
Decomposition Temperature °C  No information available.
Viscosity  No information available.

10. STABILITY AND REACTIVITY

Stability  Stable under normal conditions.
Conditions to Avoid  Heat, flames and sparks. Dust formation. Incompatible products. Protect from sunlight.
Incompatible Products  Strong oxidizing agents. Strong reducing agents.


Hazardous Reactions  None under normal processing.
Hazardous Polymerization  None under normal processing.

11. TOXICOLOGICAL INFORMATION

Product Information

Inhalation  Product dust may cause irritation of respiratory tract.
Eye Contact  Causes serious eye irritation. Dust contact with the eyes can lead to mechanical irritation.
Skin Contact  Contact with dust can cause mechanical irritation or drying of the skin.
Ingestion  Harmful if swallowed.
Acute Toxicity  16.25% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document:
LD50 Oral  1,454.00 mg/kg

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium percarbonate</td>
<td>1034 mg/kg (Rat)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Sodium carbonate</td>
<td>4090 mg/kg (Rat)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Citric acid</td>
<td>3000 mg/kg (Rat)</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Chronic Toxicity

Carcinogenicity  There are no known carcinogenic chemicals in this product.
Irritation  No information available.
Corrosivity  No information available.
Sensitization  No information available.
Neurological Effects  No information available.
Mutagenic Effects  No information available.
Reproductive Toxicity  No information available.
Developmental Toxicity  No information available.
Target Organ Effects  Eyes. Skin. Respiratory system.

### 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

16.25 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Toxic to aquatic life.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Toxicity to Algae</th>
<th>Toxicity to Fish</th>
<th>Toxicity to Microorganisms</th>
<th>Daphnia Magna (Water Flea)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium percarbonate</td>
<td>EC50 240 h: = 70 mg/L (Chlorella emersonii)</td>
<td>LC50 96 h: = 70.7 mg/L static (Pimephales promelas)</td>
<td></td>
<td>EC50 48 h: = 4.9 mg/L (Daphnia pulex)</td>
</tr>
<tr>
<td>Sodium carbonate</td>
<td>EC50 120 h: = 242 mg/L (Nitzschia)</td>
<td>LC50 96 h: = 300 mg/L static (Lepomis macrochirus) LC50 96 h: = 310 - 1220 mg/L static (Pimephales promelas)</td>
<td></td>
<td>EC50 48 h: = 265 mg/L (Daphnia magna)</td>
</tr>
<tr>
<td>Citric acid</td>
<td></td>
<td>LC50 96 h: = 1516 mg/L static (Lepomis macrochirus)</td>
<td></td>
<td>EC50 72 h: = 120 mg/L (Daphnia magna)</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Citric acid</td>
<td>-1.72</td>
</tr>
</tbody>
</table>

### 13. DISPOSAL CONSIDERATIONS

Waste from Residues / Unused Products  Dispose of in accordance with local regulations.
Contaminated Packaging  Empty containers should be taken to an approved waste handling site for recycling or disposal.

### 14. TRANSPORT INFORMATION

IMDG/IMO  Not regulated
ICAO  Not regulated
IATA  Not regulated
DOT  Not regulated
TDG  Not regulated
MEX  Not regulated
RID
Not regulated

ADR
Not regulated

ADN
Not regulated

15. REGULATORY INFORMATION

International Inventories

<table>
<thead>
<tr>
<th>International Inventory</th>
<th>Complies</th>
<th>Not determined</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSCA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EINECS/ELINCS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DSL/NDSL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PICCS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENCS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IECSC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AICS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>KECL</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Legend
- TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
- EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
- DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
- PICCS - Philippines Inventory of Chemicals and Chemical Substances
- ENCS - Japan Existing and New Chemical Substances
- IECSC - China Inventory of Existing Chemical Substances
- AICS - Australian Inventory of Chemical Substances
- KECL - Korean Existing and Evaluated Chemical Substances

RESTRICTIONS - REACH TITLE VIII
No information available.

China

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>List of Dangerous Goods</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium percarbonate</td>
<td>Present</td>
</tr>
</tbody>
</table>

16. OTHER INFORMATION

Prepared By
Product Stewardship
23 British American Blvd.
Latham, NY 12110
1-800-572-6501

Issuing Date
05-Nov-2015

Revision Date
05-Nov-2015

Revision Note
Initial Release

Recommended Restrictions
No information available.

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End of Safety Data Sheet