

SAFETY DATA SHEET

Issuing Date 05-Nov-2015 Revision Date 05-Nov-2015 Revision Number 0

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

ImporterSupplierStratasys AP LimitedStratasys Inc

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Registration Number No information available.

2. HAZARDS IDENTIFICATION

GHS-Classification

One Glacemoation	
Acute Oral Toxicity	Category 4
Serious Eye Damage/Eye Irritation	Category 2
Acute Aquatic Toxicity	Category 2

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

Synonyms

Alkaline cleaning agent

Chemical Name	CAS-No	Weight %	EC-No
Sodium percarbonate	15630-89-4	45-55	Present
Sodium carbonate	497-19-8	15-25	Present
Tetrasodium N,N-bis(carboxylatomethyl)-L-gl utamate	51981-21-6	10-20	257-573-7
Citric acid	77-92-9	10-20	Present

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-aidersUse personal protective equipment.

5. FIRE-FIGHTING MEASURES

Flammable Properties

Not flammable.

Suitable Extinguishing Media

Water spray. Dry powder. Foam. Carbon dioxide (CO 2).

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 UpSweep 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 ProtectionNo 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 availableMelting Point/Range No data available

Freezing Point
Initial Boiling Point
No information available.
No information available.

Boiling Point/Boiling RangeNo data availableFlash PointNot determined.Evaporation RateNo data availableFlammable PropertiesNot 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:** No data available.

n-octanol/water

Autoignition Temperature

Decomposition Temperature °C

Viscosity

No data available

No information available.

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 Decomposition Products Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO2). Ammonia.

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

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium percarbonate	= 1034 mg/kg (Rat)		
Sodium carbonate	= 4090 mg/kg (Rat)		
Citric acid	3000 mg/kg (Rat)	-	-

Chronic Toxicity

Carcinogenicity There are no known carcinogenic chemicals in this product.

IrritationNo information available.CorrosivityNo 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.

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

Persistence and Degradability

No information available.

BioaccumulationNo information available.

Mobility No information available.

Chemical Name	Log Pow
Citric acid	-1.72

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

<u>IATA</u> Not regulated

DOT Not regulated

TDG Not regulated

MEX Not regulated

RIDNot regulatedADRNot regulatedADNNot regulated

15. REGULATORY INFORMATION

International Inventories

Complies **TSCA EINECS/ELINCS** Complies **DSL/NDSL** Complies **PICCS** Complies **ENCS** Complies Not determined **IECSC** Complies **AICS** Complies **KECL**

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

Chemical Name	List of Dangerous Goods
Sodium percarbonate	Present

16. OTHER INFORMATION

Prepared By Product Stewardship

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Issuing Date 05-Nov-2015

Revision Date 05-Nov-2015

Revision Note Initial Release

Recommended RestrictionsNo information available.

General Disclaimer

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End of Safety Data Sheet