

SAFETY DATA SHEET

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

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name Ecoworks™ Cleaning Agent

Synonyms Alkaline cleaning agent

SSYS Part Number 400619-0001

Recommended Use Additive manufacturing

Company No information available.

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SECTION 2. HAZARDS IDENTIFICATION

GHS-Classification

Health Hazard

Acute Oral Toxicity Category 4
Serious Eye Damage/Eye Irritation Category 2

Physical Hazards

None

Environmental Hazards

GHS Label elements, including precautionary statements



Warning

Hazard Statements

- · Harmful if swallowed
- · Causes serious eye irritation

Precautionary Statements

- · Wash face, hands and any exposed skin thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Wear eye/face protection.

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.

Other hazards which do not result in classification

• No information available

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

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

SECTION 4. FIRST AID MEASURES

A. Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If

symptoms persist, call a physician.

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

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

D. Ingestion Drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an

unconscious person. Consult a physician if necessary

E. Most Important Symptoms/Effects Eye irritation/reactions.

F. Indication of immediate medical Treat symptomatically. attention and special treatment

needed, if necessary.

SECTION 5. FIRE-FIGHTING MEASURES

A. Suitable Extinguishing Media Water spray. Dry powder. Foam. Carbon dioxide (CO₂).

Unsuitable Extinguishing Media No information available.

B. Specific Hazards Arising from the Chemical Burning produces obnoxious and toxic fumes. Carbon monoxide.

Carbon dioxide (CO2). Nitrogen oxides (NOx)

C. Protective Equipment and Precautions for Firefighters Wear self-contained breathing apparatus and protective suit.

SECTION 6. ACCIDENTAL RELEASE MEASURES

A. 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.

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

C. Methods and materials for containment and cleaning up

Sweep up and shovel into suitable containers for disposal.

SECTION 7. HANDLING AND STORAGE

A. 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.

B. 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.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

A. Exposure Guidelines

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

B. Engineering Measures

Ensure adequate ventilation, especially in confined areas.

C. Personal Protective Equipment

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.

Eye/Face Protection Tightly fitting safety goggles.

Hand Protection Protective gloves.

Skin and Body ProtectionNo protective equipment is needed under normal use conditions.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

A. Appearance White

Physical State Solid (powder)

B. Odor None

C. Odor ThresholdD. pHNo data availableNo data available

E. Melting Point/Range
No data available
No data available
No data available

Boiling Point/Boiling Range

G. Flash Point

H. Evaporation Rate

I. Flammable Properties

No data available
No data available
Not applicable

J. Flammability Limits in Air Upper No data available Lower No data available

K. Vapor Pressure No data available. L. Solubility No information available. M. Vapor Density No data available. N. Relative density No data available O. Partition Coefficient: n-octanol/water No data available. P. Autoignition Temperature No data available Q. Decomposition Temperature No data available R. Viscosity No data available

S. Molecular Weight
No data available

SECTION 10. STABILITY AND REACTIVITY

A. Stability Stable under normal conditions.

B. Hazardous Reactions

None under normal processing.

C. Conditions to Avoid Heat, flames and sparks. Dust formation. Incompatible products.

Protect from sunlight

D. Incompatible Products Strong oxidizing agents. Strong reducing agents.

E. Hazardous Decomposition Products

Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide

(CO₂). Ammonia.

SECTION 11. TOXICOLOGICAL INFORMATION

A. Information on the likely routes of exposure

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 ContactContact with dust can cause mechanical irritation or drying of the

skin.

Ingestion Harmful if swallowed.

B. Delayed and immediate effects and also chronic effects from short and long term exposure

Irritation Irritating to eyes.

Corrosivity No information available. Sensitization No information available. Carcinogenic Effects No information available. **Mutagenic Effects** No information available. **Reproductive Toxicity** No information available. STOT - single exposure No information available. STOT - repeated exposure No information available. **Target Organ Effects** Eyes. Skin. Respiratory system. No information available **Hazardous to the Aquatic Environment**

Aspiration Hazard

No information available.

C. Numerical measures of toxicity

Product Information

LD50 Oral 1454 mg/kg (ATE Mix)
LD50 Dermal No information available.

Inhalation

Gas No information available.

Dust/MistNo information available.VaporNo information available.

Component Information

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)	-	-

SECTION 12. ECOLOGICAL INFORMATION

A. Aquatic and Ecotoxicity

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)

B. Persistence and Degradability No information available.

C. Bioaccumulation No information available.

D. Mobility No information available.

E. Other Adverse Effects No information available.

Chemical Name	Log Pow
Citric acid	-1.72

SECTION 13. DISPOSAL CONSIDERATIONS

A. Waste from Residues / Unused Dispose of in accordance with local regulations.

Products

B. Contaminated Packaging Empty containers should be taken to an approved waste handling site for recycling or

disposal

SECTION 14. TRANSPORT INFORMATION

A. UN-Number Not regulated.
B. Proper Shipping Name Not regulated.
C. Hazard Class Not regulated.
D. Packing Group Not regulated.
E. Marine Pollutant Not regulated

SECTION 15. REGULATORY INFORMATION

A. Industrial Safety and Health Law:

Not applicable

B. Toxic Chemicals Control Law

Not applicable

C. Dangerous Material Safety Control

Not applicable

D. Wastes Management

Dispose of in accordance with local regulations

E. Other Regulations

RESTRICTIONS - REACH TITLE VIII No information available.

International Inventories

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

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

SECTION 16. OTHER INFORMATION

A. Prepared By Product Stewardship

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B. Issuing Date 05-Nov-2015

C. Revision Date 05-Nov-2015

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D. Other InformationNo information available

General Disclaimer

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End of Safety Data Sheet