

SAFETY DATA SHEET

Category 2

Issuing Date 11-Nov-2015 Revision Date 11-Nov-2015 Revision Number 0

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

GHS product identifier

Product Name Ecoworks™ Tablets

Other means of identification

SSYS Part Number 400620-0001

Synonyms Alkaline cleaning agent

Recommended use of the chemical and restrictions on use

Recommended Use Additive manufacturing

Uses advised against No information available

Supplier's details

Supplier Address Stratasys Inc

7665 Commerce Way Eden Prairie, MN

55344

TEL: 1(952) 937 3000

Emergency telephone number

Serious Eye Damage/Eye Irritation

Emergency Telephone 1(952) 937 3000

Number +49 722 97772281 - Global - English language response

+1 978 495 5580 - USA - Multi lingual response

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200).

GHS Label elements, including precautionary statements

Emergency Overview

Signal Word Warning Hazard Statements

· Causes serious eye irritation



Appearance White.

Physical State Solid (powder).

Odor None.

Precautionary Statements

Prevention

- · Wash face, hands and any exposed skin thoroughly after handling.
- Wear eye/face protection.

General Advice

None

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.

Storage

None

Disposal

None

Hazard Not Otherwise Classified (HNOC)

Not applicable.

Other information

Harmful to aquatic life.

27% of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms

Alkaline cleaning agent

Chemical Name	CAS-No	Weight %	Trade secret
Sodium bicarbonate	144-55-8	30-35	*
Aspartic acid, N-(1,2-dicarboxyethyl)-, tetrasodium salt	144538-83-0	25-30	*
Sodium carbonate	497-19-8	20-25	*
Sodium percarbonate	15630-89-4	10-15	*
Polyethylene glycol	25322-68-3	1-4	*

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of necessary first-aid measures

Eye ContactRinse 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.

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

unconscious person. Consult a physician if necessary.

Most important symptoms/effects, acute and delayed

Most Important Symptoms/Effects Eye irritation/reactions.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water spray. Dry powder. Foam. Carbon dioxide (CO2).

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)

Explosion Data

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

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 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

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

Methods and materials for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning UpSweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

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.

Conditions for safe storage, including any incompatibilities

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

Control parameters

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits

established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering Measures Showers

Eyewash stations Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face Protection Tightly fitting safety goggles.

Skin and Body Protection Protective gloves.

Respiratory ProtectionNo protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should

be worn.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State Solid (powder). Appearance White.

Odor None. Odor Threshold No information available.

PropertyValuesRemarks/ - MethodpHNo data availableNone known

Melting Point/Range
No data available
None known
Boiling Point/Boiling Range
No data available
None known
Flash Point
No data available
None known
Evaporation rate
No data available
None known
Flammability (solid, gas)
No data available
None known
None known

Flammability Limits in Air

upper flammability limit
Iower flammability limit
No data available

No data available None known **Vapor Pressure** None known No data available **Vapor Density Specific Gravity** No data available None known No data available **Water Solubility** None known No data available Solubility in other solvents None known Partition coefficient: n-octanol/waterNo data available None known No data available **Autoignition Temperature** None known **Decomposition Temperature** No data available None known **Viscosity** No data available None known

Flammable Properties Not flammable

Explosive PropertiesNo data available **Oxidizing Properties**No data available

Other information

VOC Content (%) No data available

10. STABILITY AND REACTIVITY

Reactivity

No data available.

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

Incompatible products.

Incompatible materials

Strong oxidizing agents. Strong reducing agents.

Hazardous decomposition products

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

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation Product dust may cause irritation of respiratory tract.

Eye ContactCauses 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.

Not an expected route of exposure. May be harmful if swallowed. May cause

gastrointestinal discomfort if consumed in large amounts.

	Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
	Sodium bicarbonate	= 4220 mg/kg (Rat)	-	-
	Sodium carbonate	= 4090 mg/kg (Rat)	-	-
Ī	Sodium percarbonate	= 1034 mg/kg (Rat)	-	-
Γ	Polyethylene glycol	= 28 g/kg (Rat)	> 20 g/kg (Rabbit)	-

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

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

Sensitization Mutagenic EffectsNo information available.
No information available.

Carcinogenicity Contains no ingredients above reportable quantities listed as a carcinogen.

Reproductive Toxicity
STOT - single exposure
STOT - repeated exposure
Target Organ Effects
Aspiration Hazard
No information available.
No information available.
Eyes. Skin. Respiratory system.
No information available.

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Numerical measures of toxicity - Product

Acute Toxicity 27% 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 2788 mg/kg; Acute toxicity estimate **LD50 Dermal** 695933 mg/kg; Acute toxicity estimate

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Sodium bicarbonate 144-55-8	EC50 120 h: = 650 mg/L (Nitzschia linearis)	LC50 96 h: 8250-9000 mg/L static (Lepomis macrochirus)		EC50 48 h: = 2350 mg/L (Daphnia magna)
Aspartic acid, N-(1,2-dicarboxyethyl)-, tetrasodium salt 144538-83-0				>84 mg/L (48h)
Sodium carbonate 497-19-8	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)
Sodium percarbonate 15630-89-4	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)
Polyethylene glycol 25322-68-3		LC50 24 h: > 5000 mg/L (Carassius auratus)	EC50 = 100000 mg/L 15 min	

Persistence and Degradability No information available.

Bioaccumulation No information available.

Other Adverse Effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods Dispose of in accordance with federal, state, and local regulations

Contaminated Packaging Do not re-use empty containers.

14. TRANSPORT INFORMATION

DOT Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA Complies DSL Complies

<u>Legend</u>

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

U.S. Federal Regulations

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

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

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

This product does not contain any substances regulated by state right-to-know regulations.

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION					
NFPA	Health Hazard 2	Flammability 0	Instability 0	Physical and Chemical Hazards -	
<u>HMIS</u>	Health Hazard 2	Flammability 0	Physical Hazard 0	Personal Protection X	

Prepared By
Product Stewardship
23 British American Blvd.

Latham, NY 12110 1-800-572-6501 11-Nov-2015 11-Nov-2015 Initial Release.

General Disclaimer

Issuing Date

Revision Date

Revision Note

The information provided on this SDS 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 Safety Data Sheet