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Revision Number 0

Section 1. Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

SSYS Part Number 400620-0001

Product Name **Ecoworks™ Tablets**

Synonyms Alkaline cleaning agent

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Additive manufacturing

Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Importer	Supplier
Stratasys GMBH	Stratasys Inc
Simon Hegele	7665 Commerce Way
Gesellschaft für Logistik und Service mbH	Eden Prairie, MN
Tejostraße 1-9 (Unit 5, Gate 67)	55344
65479 Raunheim	TEL: 1(952) 937 3000
Germany	
TEL: +49 722 977720	

For further information, please contact

E-mail Address objet-info@stratasys.com

1.4. Emergency telephone numberEmergency Telephone Number 1(952) 937 3000
+49 722 97772280 - Europe - Multi lingual response
+49 722 97772281 - Global - English language response

Europe 112

Section 2. Hazards identification**2.1. - Classification of the substance or mixture****REGULATION (EC) No 1272/2008**

Serious Eye Damage/Eye Irritation Category 2

Physical Hazards

None

2.2. Label Elements

Signal Word

Warning

Hazard Statements

H319 - Causes serious eye irritation

Precautionary Statements

P264 - Wash face, hands and any exposed skin thoroughly after handling

P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337 + P313 - If eye irritation persists: Get medical advice/ attention

P273 - Avoid release to the environment

P501 - Dispose of contents/ container to an approved waste disposal plant

2.3. Other information**Section 3. Composition/information on ingredients****3.1. Substances****3.2. Mixtures**

Chemical Name	EC-No	CAS-No	Weight %	EU - GHS Substance Classification	REACH No.
Sodium bicarbonate	205-633-8	144-55-8	30-35		No data available
Aspartic acid, N-(1,2-dicarboxyethyl)-, tetrasodium salt	-	144538-83-0	25-30		No data available
Sodium carbonate	Present	497-19-8	20-25	Eye Irrit. 2 (H319)	No data available
Sodium percarbonate	Present	15630-89-4	10-15		No data available
Polyethylene glycol	-	25322-68-3	1-4		No data available

For the full text of the H-Statements mentioned in this Section, see Section 16

Section 4. First aid measures**4.1. Description of 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.
Ingestion	Drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician if necessary.
Inhalation	Move to fresh air. If symptoms persist, call a physician.
Protection of First-aiders	Use personal protective equipment.

4.2. Most important symptoms and effects, both acute and delayed**Most Important Symptoms/Effects** Eye irritation/reactions.**4.3. Indication of immediate medical attention and special treatment needed****Notes to Physician** Treat symptomatically.**Section 5. Fire-fighting measures****5.1. Extinguishing media**

Suitable Extinguishing Media

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

Extinguishing media which must not be used for safety reasons

No information available.

5.2. Special hazards arising from the substance or mixture**Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases**

Burning produces obnoxious and toxic fumes. Carbon monoxide. Carbon dioxide (CO₂). Nitrogen oxides (NOx).

5.3. Advice for firefighters**Special protective equipment for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary.

Section 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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.

6.2. Environmental precautions

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

6.3. Methods and materials for containment and cleaning up

Sweep up and shovel into suitable containers for disposal.

6.4. Reference to other sections

See Section 12 for additional information.

Section 7. Handling and storage

7.1. 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.

Hygiene Measures

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

7.2. Conditions for safe storage, including any incompatibilities

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.

7.3. Specific end use(s)**Exposure Scenario**

No information available.

Other Guidelines

No information available.

Section 8. Exposure controls/personal protection

8.1. Control parameters**Exposure Limits**

Chemical Name	EU	The United Kingdom	France	Spain	Germany

Polyethylene glycol 25322-68-3					MAK: 1000 mg/m ³ Ceiling / Peak: 8000 mg/m ³ TWA: 1000 mg/m ³
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Polyethylene glycol 25322-68-3	STEL 4000 mg/m ³ MAK: 1000 mg/m ³	MAK: 1000 ppm			

Derived No Effect Level No information available.

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering Measures Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye 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.

Environmental Exposure Controls Do not allow material to contaminate ground water system.

Section 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State Solid (powder) **Appearance** White
Odor None

<u>Property</u>	<u>Values</u>	<u>Remarks/ - Method</u>
pH	No data available	None 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
Vapor Pressure	No data available	None known
Vapor Density	No data available	None known
Relative Density	No data available	None known
Water Solubility	No data available	None known
Solubility in other solvents	No data available	None known
Partition coefficient: n-octanol/water	No data available	None known
Autoignition Temperature	No data available	None known
Decomposition Temperature	No data available	None known
Viscosity	No data available	None known
Explosive Properties	No data available	
Oxidizing Properties	No data available	

9.2. Other information

VOC Content (%) No information available

Flammability Limits in Air No data available

Section 10. Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

Heat, flames and sparks. Dust formation. Incompatible products. Protect from sunlight

10.5. Incompatible materials

Strong oxidizing agents. Strong reducing agents.

10.6. Hazardous decomposition products

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

Section 11. Toxicological information

11.1. Information on toxicological effects**Acute Toxicity****Product Information****Inhalation****Eye Contact****Skin Contact****Ingestion**

Product dust may cause irritation of respiratory tract.
Causes serious eye irritation. Dust contact with the eyes can lead to mechanical irritation.
Contact with dust can cause mechanical irritation or drying of the skin.
Not an expected route of exposure. May be harmful if swallowed. Ingestion may cause stomach discomfort.

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

Sensitization

No information available.

Mutagenic Effects

No information available.

Carcinogenic Effects

No information available.

Reproductive Toxicity

No information available.

Developmental Toxicity

No information available.

STOT - single exposure

No information available.

STOT - repeated exposure

No information available.

Target Organ Effects

Eyes. Skin. Respiratory system.

Aspiration Hazard

No information available.

Section 12. Ecological information

12.1. Toxicity**Ecotoxicity Effects**

Harmful to aquatic organisms.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Sodium bicarbonate	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				>84 mg/L (48h)

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)
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)
Polyethylene glycol		LC50 24 h: > 5000 mg/L (Carassius auratus)	EC50 = 100000 mg/L 15 min	

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

Adsorbs on soil.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects

This product does not contain any known or suspected endocrine disruptors.

Section 13. Disposal considerations

13.1. Waste treatment methods**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.

Other Information

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

Section 14. Transport information

IMDG/IMO

14.1. UN-Number	Not regulated.
14.2. Proper Shipping Name	Not regulated.
14.3. Hazard Class	Not regulated.
14.4. Packing Group	Not regulated.
Description	Not applicable.
14.5. Marine Pollutant	None.
14.6. Special Provisions	None.
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	No information available.

RID

14.1. UN-Number	Not regulated.
14.2. Proper Shipping Name	Not regulated.
14.3. Hazard Class	Not regulated.
14.4. Packing Group	Not regulated.
Description	Not applicable.
14.5. Environmental hazard	None.
14.6. Special Provisions	None.

ADR

14.1. UN-Number	Not regulated.
14.2. Proper Shipping Name	Not regulated.
14.3. Hazard Class	Not regulated.
14.4. Packing Group	Not regulated.
Description	Not applicable.
14.5. Environmental hazard	None.
14.6. Special Provisions	None.

ICAO

14.1. UN-Number	Not regulated.
14.2. Proper shipping name	Not regulated.
14.3. Hazard Class	Not regulated.
14.4. Packing Group	Not regulated.
Description	Not applicable.
14.5. Environmental hazard	None.
14.6. Special Provisions	None.

IATA

14.1. UN-Number	Not regulated.
14.2. Proper Shipping Name	Not regulated.
14.3. Hazard Class	Not regulated.
14.4. Packing Group	Not regulated.
Description	Not applicable.
14.5. Environmental hazard	None.
14.6. Special Provisions	None.

Section 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**International Inventories**

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

15.2. Chemical Safety Assessment

No information available

Section 16. Other information

Full text of H-Statements referred to under sections 2 and 3

H319 - Causes serious eye irritation

Key literature references and sources for data

www.ChemADVISOR.com/

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This safety data sheet complies with the requirements of Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No. 1907/2006

General Disclaimer

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End of Safety Data Sheet