

**Safety data sheet**  
according to 1907/2006/EC, Article 31



Printing date 22.10.2012

Revision: 22.10.2012

## 1 Identification of the substance/mixture and of the company/undertaking

- **Date of issue:** 10.02.2012
- **Product identifier**
- **Trade name:** Ecoworks Tablets
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the preparation:** Chemicals for various applications
- **Details of the supplier of the safety data sheet**
- **Manufacturer / Supplier:**  
Stratasys, Inc. Tel +1 952 937 3000  
7665 Commerce Way Fax +1 952 937 0070  
Eden Prairie, MN 55344  
USA
  
- **In Europe:**  
  
C.S.B. GmbH Tel.: +49-2151-6520860  
Parkstraße 29 Fax: +49-2151-6520869  
D-47829 Krefeld E-Mail: info@csb-online.de  
Germany
- **E-mail address of the competent person responsible for the Safety Data Sheet:** [sdb@csb-online.de](mailto:sdb@csb-online.de)
- **Informing department:** Sales / Technics
- **Emergency telephone number:** As above or next toxicological information centre

## 2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**  
 Xi; Irritant  
*R41: Risk of serious damage to eyes.*
- **Classification system:**  
*The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.*
- **Label elements**
- **Labelling according to EU guidelines:**  
*The product has been classified/labelled in accordance with EC Directives / relevant national laws.*
- **Code letter and hazard designation of product:**  
 Xi Irritant
- **Risk phrases:**  
*41 Risk of serious damage to eyes.*
- **Safety phrases:**  
*22 Do not breathe dust.*  
*25 Avoid contact with eyes.*  
*26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.*  
*39 Wear eye/face protection.*
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.

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· **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization:** *Mixtures*
- **Description:** *Mixture of the substances listed below with nonhazardous additions.*

- **Dangerous components:**

CAS: 497-19-8 EINECS: 207-838-8 Index number: 011-005-00-2	Sodium carbonate ☒ Xi R36 ☠ Eye Irrit. 2, H319	25-50%
CAS: 15630-89-4 EINECS: 239-707-6	Disodium carbonate, compound with hydrogen peroxide (2:3) ☒ Xn R22; ☒ Xi R41; ☠ O R8 ☠ Ox. Sol. 2, H272; ☠ Eye Dam. 1, H318; ☠ Acute Tox. 4, H302	10-25%

- **Additional information:** *For the wording of the listed risk phrases refer to section 16.*

- **Ingredients according to Regulation (EC) No 648/2004:**

oxygen-based bleaching agents	5 - 15%
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### 4 First aid measures

- **Description of first aid measures**
- **General information:** *Remove contaminated clothing.*
- **After inhalation:** *Supply fresh air; consult doctor in case of symptoms.*
- **After skin contact:**  
*Rinse with plenty of water.*  
*If skin irritation continues, consult a doctor.*
- **After eye contact:**  
*Rinse opened eye for several minutes under running water.*  
*Use eye protection.*  
*Call a doctor immediately.*
- **After swallowing:**  
*Rinse out mouth and then drink plenty of water.*  
*Seek immediate medical advice.*
- **Information for doctor:**  
· **Most important symptoms and effects, both acute and delayed** *No further relevant information available.*  
· **Indication of any immediate medical attention and special treatment needed**  
*No further relevant information available.*

### 5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents** *Use fire fighting measures that suit the environment.*
- **For safety reasons unsuitable extinguishing agents** *none*
- **Special hazards arising from the substance or mixture**  
*Nitrogen oxides (NO<sub>x</sub>)*  
*Carbon monoxide (CO) and Carbon dioxide (CO<sub>2</sub>)*
- **Advice for firefighters**
- **Protective equipment:** *Wear self-contained breathing apparatus.*
- **Additional information**  
*Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.*

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## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
  - Ensure adequate ventilation.
  - Avoid causing dust.
  - Do not breathe dust.
  - Avoid contact with skin and eyes.
- **Environmental precautions:** Do not allow to enter drainage system, surface or ground water.
- **Methods and material for containment and cleaning up:**
  - Ensure adequate ventilation.
  - Collect mechanically.
  - Dispose of the material collected according to regulations.
- **Reference to other sections**
  - See Section 7 for information on safe handling
  - See Section 8 for information on personal protection equipment.
  - See Section 13 for information on disposal.

## 7 Handling and storage

- **Handling**
- **Precautions for safe handling**
  - Ensure good ventilation/exhaustion at the workplace.
  - Prevent formation of dust.
  - Do not breathe dust.
  - Avoid contact with skin and eyes.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:**
  - Observe all local and national regulations for storage of water polluting products.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
  - Store in cool, dry conditions in well sealed containers.
  - Protect from heat and direct sunlight.
  - Store container in a well ventilated position.
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with critical values that require monitoring at the workplace:**
  - The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the compilation were used as basis.
- **Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**
  - Keep away from foodstuffs, beverages and food.
  - Do not eat, drink or smoke while working.
  - Instantly remove any contaminated garments.
  - Do not breathe dust.
  - Avoid contact with the eyes and skin.

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Wash hands during breaks and at the end of the work.

· **Breathing equipment:** Use breathing protection in case of dust formation.

· **Protection of hands:**

Protective gloves

To avoid skin problems reduce the wearing of gloves to the required minimum.

Check the permeability prior to each renewed use of the glove.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

Protective gloves should be replaced at first signs of wear.

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Tightly sealed safety glasses

· **Body protection:**

Protective work clothing

Protective clothing should be selected specifically for the working place.

## 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

<b>Form:</b>	Tablets
<b>Colour:</b>	off white
· <b>Smell:</b>	nearly odourless
· <b>Odour threshold:</b>	not determined

· **pH-value:** Not applicable.

· **Change in condition**

**Melting point/Melting range:** not determined

**Boiling point/Boiling range:** not determined

· **Flash point:** not applicable

· **Inflammability (solid, gaseous)** Not determined.

· **Ignition temperature:**

**Decomposition temperature:** Not determined.

· **Self-inflammability:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive.

· **Critical values for explosion:**

**Lower:** Not determined.

**Upper:** Not determined.

· **Oxidizing properties** not classified as oxidising

· **Vapor pressure:** Not applicable.

· **Density:** not determined

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- |  |   |
|--|---|
| · <b>Relative density</b>  | <i>Not determined.</i>                            |
| · <b>Vapour density (AIR = 1):</b>   | <i>Not applicable.</i>                            |
| · <b>Evaporation rate</b>  | <i>Not applicable.</i>                            |
| · <b>Solubility in / Miscibility with Water:</b>                           | <i>soluble</i>                                    |
| · <b>Segregation coefficient (n-octanol/water):</b> <i>Not determined.</i> |   |
| · <b>Viscosity:</b>  |   |
| <i>dynamic:</i>  | <i>Not applicable.</i>                            |
| <i>kinematic:</i>  | <i>Not applicable.</i>                            |
| · <b>Other information</b>   | <i>No further relevant information available.</i> |

### 10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** *No decomposition if used according to specifications.*
- **Possibility of hazardous reactions** *No dangerous reactions known.*
- **Conditions to avoid** *No further relevant information available.*
- **Incompatible materials:** *Strong acids*
- **Hazardous decomposition products:**  
*Nitrogen oxides (NO<sub>x</sub>)*  
*Carbon monoxide (CO) and Carbon dioxide (CO<sub>2</sub>)*

### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

**15630-89-4 Disodium carbonate, compound with hydrogen peroxide (2:3)**

Oral	LD50	1034 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rabbit)
Inhalative	LC50/1 h	> 4.58 mg/l (rat) (LC0/1 h)

- **Primary irritant effect:**
- **on the skin:** *Dust particles may mechanically irritate the skin.*
- **on the eye:** *Strong irritant with the danger of severe eye injury.*
- **Additional toxicological information:**  
*The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:*  
*Irritant*

### 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:**

**15630-89-4 Disodium carbonate, compound with hydrogen peroxide (2:3)**

EC50	4.9 mg/l ( <i>Daphnia pulex</i> )
LC50	70.7 mg/l ( <i>Fathead minnow (Pimephales promelas)</i> )
NOEC	2.0 mg/l ( <i>Daphnia pulex</i> ) (NOEC/48 h)

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NOEC/96 h	7.4 mg/l (Fathead minnow ( <i>Pimephales promelas</i> ))
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- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Water hazard class 1 (Self-assessment): slightly hazardous for water
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation** Disposal must be made according to official regulations.
- **Waste disposal key number:** According to local/national regulations.
- **European waste catalogue:**  
Waste disposal key numbers from EWC have to be assigned depending on origin and processing.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

- |  |  |
|--|--|
| · <b>UN-Number</b>   |  |
| · <b>ADR, ADN, IMDG, IATA</b>  | Void   |
| · <b>UN proper shipping name</b>   |  |
| · <b>ADR, ADN, IMDG, IATA</b>  | Void   |
| · <b>Transport hazard class(es)</b>  |  |
| · <b>ADR, ADN, IMDG, IATA</b>  |  |
| · <b>Class</b>   | Void   |
| · <b>Packing group</b>   |  |
| · <b>ADR, IMDG, IATA</b>   | Void   |
| · <b>Special precautions for user</b>  | Not applicable.                                      |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable.                                      |
| · <b>Transport/Additional information:</b>                                       | Not dangerous according to the above specifications. |

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Designation according to EC guidelines:**  
The product has been classified/labelled in accordance with EC Directives / relevant national laws.

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**· Code letter and hazard designation of product:***Xi Irritant***· Risk phrases:***41 Risk of serious damage to eyes.***· Safety phrases:***22 Do not breathe dust.**25 Avoid contact with eyes.**26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.**39 Wear eye/face protection.***· National regulations****· Information about limitation of use:** *Employment restrictions concerning young persons must be observed.***· Decree to be applied in case of technical fault:** *Directive 96/82/EC does not apply.***· Water hazard class:** *Water hazard class 1 (Self-assessment): slightly hazardous for water***· Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.***16 Other information**

*These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

**· Relevant phrases**

*The(se) R- resp. H-phrase(s) are those of the ingredient(s) and do(es) not necessarily represent the classification of the preparation.*

*H272 May intensify fire; oxidiser.**H302 Harmful if swallowed.**H318 Causes serious eye damage.**H319 Causes serious eye irritation.**R22 Harmful if swallowed.**R36 Irritating to eyes.**R41 Risk of serious damage to eyes.**R8 Contact with combustible material may cause fire.***· Department issuing MSDS:***C.S.B. GmbH**Phone: +49 - 2151 - 652086-0**Parkstraße 29**Fax: +49 - 2151 - 652086-9**D-47829 Krefeld**Germany*

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