

# MATERIAL SAFETY DATA SHEET

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name:** Dishwasher Tablets

**Recommended Use:** Cleaning tablet for automatic dishwashers

**Restrictions on use:** Use only as directed on label

**Manufacturer:** -

**Email address:**

**Emergency telephone:**

## 2. HAZARDS IDENTIFICATION

### Classification of the mixture:

Hazardous substance. NON dangerous goods.

This product is classified as irritant in accordance to EU directive 1999/45/EC.

### Label elements

GHS Label elements	
Signal Word	WARNING

### Hazard Statement(s)

H315 Causes skin irritation

H319 Causes serious eye irritation

H302 Harmful if swallowed

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H335 May cause respiratory irritation

EUH208: Contains Subtilisin. May produce an allergic reaction.

### Precautionary Statement(s)

P102 Keep out of reach of children

P302 IF ON SKIN rinse skin with water

P305 IF IN EYES rinse immediately with plenty of water and seek medical advice.

P301 IF SWALLOWED seek medical advice immediately and show this container or label.

### Other Hazard(s)

Nil

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient name	CAS number	Proportion % w/w
Sodium carbonate	497-19-8	15-40%
Disodium carbonate, compound with hydrogen peroxide (2:3)	15630-89-4	5-15%
Sodium disilicate	13870-28-5	1-10%
Citric acid	77-92-9	0.5-5%
Nonionic surfactant	68439-49-6	1-10%
Cellulose	9004-34-6	0.5-5%
Benzotriazole	95-14-7	0.01-1%
Protease	9014-01-1	0.5-5%
Amylase	9000-90-2	0.1-1%

## 4. FIRST AID MEASURE

### Description of first aid measures.

<b>Inhalation</b>	Remove from exposure and give water to drink if mouth irritation experienced. Seek medical advice if recovery is not rapid.
<b>Ingestion</b>	Drink plenty of water. If symptoms persist consult a doctor.
<b>Skin contact</b>	Rinse affected area with water.
<b>Eye contact</b>	Rinse thoroughly with water for several minutes. If symptoms persist consult a doctor.

### Most important symptoms and effects, both acute and delayed.

<b>Inhalation</b>	Possible mild irritation of breathing passage and possible mouth irritation
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<b>Ingestion</b>	Symptoms of poisoning
<b>Skin</b>	Possible mild transient irritation of skin
<b>Eye</b>	Possible mild irritation, redness and soreness.

**Indication of any immediate medical attention and special treatment needed.**

No data available.

## 5. FIRE FIGHTING MEASURES

<b>Extinguishing media</b>	Use an extinguisher suitable to the surrounding fire.
<b>Special hazards arising from the substance or mixture</b>	No further relevant information.
<b>Advice for firefighters</b>	Use protection suitable to cause of fire.

## 6. ACCIDENTAL RELEASE METHODS

**Personal precautions, protective equipment and emergency procedures.**

<b>Environmental precautions</b>	Product is intended to be rinsed away to sewer after normal use. For bigger, non-household spillages prevent entry into sewer or drains. Can be picked up with shovel and disposed of via a license waste disposal contactor.
<b>Methods and materials for containment and cleaning up</b>	Absorb household spillages with e.g. kitchen roll and dispose of in bin. Wipe effected area clean with a damp cloth. For larger spills – move containers from spill area. Use a vacuum with HEPA filter, avoid dust generation. Use a license waste disposal contactor for disposal.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Do NOT ingest. Workers should wash hands and face after handling product. Use as instructed on the label. Comply with current legislation concerning the prevention of industrial risks. Keep containers sealed. Control spills and residues using safe methods (section 6). Avoid leakages from the container.
<b>Technical recommendations to prevent fires and explosions</b>	Due to its non-flammable natures, the product does not present a fire risk under normal conditions of storage and use.

<b>Storage</b>	Do NOT store above 40°C. Do NOT store below -10°C. store in original container. Keep away from direct sunlight, heat and moist conditions. Keep container closed.
<b>For bulk, long distance transport For storage up to 25 days</b>	Product must be kept under 30°C. Keep < 40°C.
<b>For storage greater than 25 days</b>	Keep product < 30°C
<b>Specific end use</b>	Cleaning tablet for automatic dishwashers.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

The mixture has not been tested. Based on the available data of the ingredients the classification criteria are not met.

<b>Ingredient name</b>	<b>Exposure limits</b>
Cellulose	Short term value : 20 mg/m <sup>3</sup> (inhalable) Long term value : 10 mg/m <sup>3</sup> (inhalable) 4 mg/m <sup>3</sup> (respirable)

<b>Exposure controls</b>	This product does not pose a hazard in normal use. Care should be taken not to inhale the powder. No personal protective equipment is necessary.
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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Important health, safety and environmental information

<b>Appearance</b>	Solid tablet	<b>Odour</b>	Lemon
<b>Colour</b>	White, blue and yellow.		
<b>pH</b>	10.5 - 11.4	<b>Boiling point</b>	Not measured (>100°C)
<b>Flash point</b>	Not applicable	<b>Flammability</b>	Does not ignite
<b>Explosive properties</b>	None	<b>Oxidising properties</b>	Not available
<b>Vapour pressure</b>	Not available	<b>Relative density</b>	Not determined
<b>Solubility</b>	Soluble in water	<b>Water solubility</b>	Completely soluble
<b>Viscosity</b>	Not measured	<b>Partition coefficient: n-octanol/water</b>	Not available
<b>Evaporation rate</b>	Not measured	<b>Vapour density</b>	>1 (air=1)

Other information. Nil

## 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	No chemical reactivity hazards expected. The
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<b>Chemical stability</b>	product is stable
<b>Possibility of hazardous reactions</b>	Stable under normal conditions
<b>Conditions to avoid</b>	None under normal conditions of storage and use
<b>Incompatible materials</b>	Do not mix with household chemicals
<b>Hazardous decomposition products</b>	Do not mix with oxidising materials
	None known when stored and used under normal conditions.

## 11. INFORMATION ON TOXICOLOGY

### Acute Toxicity

Ingredient name	Result	Species	Dose	Exposure
Sodium carbonate	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	2800 mg/kg	-
Disodium carbonate compound with hydrogen peroxide (2:3)	LD50 Oral	Rat	1034 mg/kg	-
Benzotriazole	LD50 Oral	Guinea pig	500mg/kg	4 hour
	LD40 Dermal	Rat	>1000 mg/Kg	4 hour
	LC50 Dust	Rat	1910 mg/m <sup>3</sup>	3 hour

### Irritation/Corrosion

Ingredient name	Result	Species	Score	Exposure	Observation
Sodium carbonate	Eyes – Mild irritant	Rabbit	-	0.5 minutes 100mg	-
	Eyes – Moderate irritant	Rabbit	-	24 hours 100mg	-

### Teratogenicity

Conclusion/summary - Not available

### Potential acute health effects

Inhalation	No known significant effects or critical hazards
Ingestion	No known significant effects or critical hazards
Skin contact	No known significant effects or hazards
Eye contact	Irritating to eyes

### Potential chronic health effects

#### Chronic toxicity

Conclusion/ summary	Not available
Chronic effects	No known significant effects or critical hazards
Carcinogenicity	No known significant effects or critical hazards
Mutagenicity	No known significant effects or critical hazards
Teratogenicity	No known significant effects or critical hazards
Developmental effects	No known significant effects or critical hazards
Fertility effects	No known significant effects or critical hazards

### Over Exposure signs/ symptoms

Inhalation	No specific data
Ingestion	No specific data
Skin	No specific data
Eyes	Adverse symptoms may include the following: irritation; watering; redness
Target organs	No specific data

## 12. ECOLOGICAL INFORMATION

Ecotoxicity No known significant effects or critical hazards

Aquatic ecotoxicity

Ingredient name	Result	Species	Exposure
Sodium carbonate	Acute EC50 242000 µg/l fresh water	Algae – Navicula seminulum	96 hours
	Acute LC50 176000 µg/l fresh water	Crustaceans – amphipoda	48 hours
	Acute LC50 265000 µg/l fresh water	Daphnia – Daphnia magna	48 hours
	Acute LC50 300000 µg/l fresh water	Fish – Lepomis macrochirus	96 hours
	Acute EC50 70 mg/l	Algae – Chlorella emersonii	240 hours
	Disodium carbonate compound with hydrogen peroxide (2:3)	Acute EC50 4.9 mg/l Acute LC50 70.7 mg/l Acute EC50 0.1 to 1 mg/l	Daphnia – Daphnia Pluex Fish – Pimephales promelas Aquatic plants

### Toxicity

The mixture has not been tested. Based on the available data of the ingredients the classification criteria are not met.

### Persistence and biodegradability

Does not contain and components considered to be persistent. Contains detergents that satisfy the biodegradation requirements of directive 648/2004/EC

<b>Bioaccumulative potential</b>	No bioaccumulative potential noted for any component
<b>Mobility in soil</b>	The components of the mixture are readily absorbed into soil and are mobile in water environment
<b>Results of PBT and vPvB assessment</b>	-
<b>Other adverse effects</b>	-

### 13. DISPOSAL CONSIDERATIONS

<b>Waste treatment methods</b>	Dispose of according to local regulations. Avoid disposing into drainage systems and into the environment. Dispose of contaminated packaging in the same way as the product itself. Non-contaminated packages may be recycled.
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### 14. TRANSPRT INFORMATION

14.1	UN number	Not applicable
14.2	UN proper shipping name	Not applicable
14.3	Transport hazard class(es)	Not applicable
14.4	Packing group	Not applicable
14.5	Environmental hazards	Not applicable
14.6	Special precautions for user	Not applicable
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable

### 15. REGULATORY INFORMATION

Ingredient label: Sodium Citrate >10%, Nonionic surfactant, Polycarboxylate<5%, Enzymes, Fragrance

Safety, health and environmental regulations/legislation specific for the substance or mixture Commission Regulation (EC) No. 453/2010 of 20th May 2010 amending Regulation (EC) No. 1907/2006 of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

#### Chemical Safety Assessment

15.2 The chemical safety assessment has not been carried out for the mixture.

## **16. OTHER INFORMATION**

The information provided in this Safety Data Sheet 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 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.