

SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: All-In-One-Dishwasher-Tablets

Recommended Use: Cleaning tablet for automatic dishwashers

Restrictions on use: Use only as directed on label

Supplier: Reza Chemical Industries
Address P.O. Box 1555
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Jeddah 21425 Saudi Arabia

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(Office Hours only): 7.30 am to 4.30 pm Sun to Thurs

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

H335 May cause respiratory irritation

EUH208: Contains Subtilisin. May produce an allergic reaction.

EUH208: Contains D-Limonene. 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	EINECS No.	Registration number	Proportion % w/w	Classification 1999/45/EC	Classification 1272/2008
Sodium carbonate	497-19-8	207-838-8	01-2119485498-19-XXXX	>25%	Xi, R36	Eye Irrit. 2-H319
Disodium carbonate, compound with hydrogen peroxide (2:3)	15630-89-4	239-707-6	01-2119457268-30-XXXX	5-15%	Xn, Xi, O, R22 R41 R8	Ox. Sol 2-H272 Eye damage 1-H318 Acute tox. 4-H302
Silicic acid, sodium salt	1344-09-8	239-707-6	01-2119448725-31-XXXX	1-5%	Xi, R37/38, R41	Eye dam. 1-H318 Skin Irrit. 2-315 STOT SE 3-H335
Cellulose	9004-34-6	232-674-9	01-2119475104-44-XXXX	1-10%	-	-
D-Limonene	5989-27-5	227-815-6	-	0.1 – 1.0%	Xi, N, R10, R38, R43, R50/53	Skin Irrit. 2 -315 Skin sensitizer category 1
Subtilisin	9014-01-1	232-752-2	-	0.1 1.0%	Xi, R37/38, R41. Xn R42.	

Amylase	9000-90-2	232-565-6	-	0.1-1.0%	Xi,R37/38, R41, Xn R42	
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4. FIRST AID MEASURE

Description of first aid measures.

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

Most important symptoms and effects, both acute and delayed.

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

Indication of any immediate medical attention and special treatment needed.

No data available.

5. FIRE FIGHTING MEASURES

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

6. ACCIDENTAL RELEASE METHODS

Personal precautions, protective equipment and emergency procedures.

Environmental precautions	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.
Methods and materials for containment and cleaning up	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

Handling	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.
Technical recommendations to prevent fires and explosions	Due to its non-flammable natures, the product does not present a fire risk under normal conditions of storage and use.
Storage	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.
For bulk, long distance transport For storage up to 25 days	Product must be kept under 30°C. Keep < 40°C.
For storage greater than 25 days	Keep product < 30°C
Specific end use	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.

Ingredient name	Exposure limits
Cellulose	Short term value : 20 mg/m ³ (inhalable) Long term value : 10 mg/m ³ (inhalable) 4 mg/m ³ (respirable)
Exposure controls	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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Important health, safety and environmental information

Appearance	Tablet	Odour	Lemon
Colour	Blue, white layer with purple core		
pH	10.5-11.4	Boiling point	Not measured (>100°C)
Flash point	Not applicable	Flammability	Does not ignite
Explosive properties	None	Oxidising properties	Not available
Vapour pressure	Not available	Relative density	Not determined
Solubility	Soluble in water	Water solubility	Completely soluble
Viscosity	Not measured	Partition coefficient: n-octanol/water	Not available
Evaporation rate	Not measured	Vapour density	>1 (air=1)

Other information. Nil

10.STABILITY AND REACTIVITY

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

Irritation/Corrosion

Ingredient name	Result	Species	Score	Exposure	Observation
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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 176000 µg/l fresh water	Daphnia – Daphnia magna	48 hours
	Acute LC50 265000 µg/l fresh water	Fish – Lepomis macrochirus	96 hours
	Acute LC50 265000 µg/l fresh water	Algae – Chlorella emersonii	240 hours

	Acute LC50 300000 µg/l fresh water Acute EC50 70 mg/l		
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	48 hours 96 hours 72 hours

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

Bioaccumulative potential

No bioaccumulative potential noted for any component

Mobility in soil

The components of the mixture are readily absorbed into soil and are mobile in water environment

Results of PBT and vPvB assessment

-

Other adverse effects

-

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

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.

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: (10-15%)Oxygen-basedBleachingAgents,(5-10%)SodiumCitrate,Surfactant,Enzymes, Polycarboxylates,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).

15.1 EU – regulations - No additional information available

Chemical Safety Assessment

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

16. OTHER INFORMATION

In addition to the R and S phrases stated in section 15 the full text of other phrases and statements etc. used but not written out in full in other sections are listed in full here;

R8	Contact with combustible material may cause fire
R22	Harmful if swallowed
R36	Irritating to eyes
R37/38	Irritating to respiratory system and skin
R41	Risk of serious damage to eyes
H272	May intensify fire; oxidiser
H302	Harmful if swallowed
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation