

Safety Data Sheet

KOH dishwashing tablets

SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name:	KOH dishwashing tablets
Recommended Use:	Clean dishes, for Automatic Dishwasher use only
Restrictions on Use:	Use only as directed on label
Manufacturer:	Yuyao Delpack Commodity Co., Ltd Xindongwu Industrial Park, Moushan Town Yu Yao, Zhejiang, China 315400
Email Address:	Phillip.51@hotmail.com
Emergency Telephone:	+ 86 574 62856086
Website:	Http://www.delpack.cn

SECTION 2: HAZARDS IDENTIFICATION

Classification of the mixture:

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Eye Irrit.:2, H319


Hazardous substance. NON dangerous goods.

Adverse human health and environmental effects

No additional information available

Label elements

Labeling according to Regulation (EC) No. 1272/2008 [CLP]

GHS Label elements	
Signal Word	WARNING

Hazard Statement(s)

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H302 Harmful if swallowed.

EUH208 Contains Subtilisin. May produce an allergic reaction.

Precautionary Statement(s)



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P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P264 - Wash hands thoroughly after handling.

P280 - Wear eye 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.

P302 + P352 - IF ON SKIN: Wash with plenty of water.

P332 + P313 - If skin irritation occurs: Get medical advice/attention.

P362 + P364 - Take off contaminated clothing and wash it before reuse.

P270 - Do not eat, drink or smoke when using this product.

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor and show this container or label.

P330 - Rinse mouth.

Other Hazard(s)

Nil

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient name	CAS number	Proportion % w/w	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Sodium carbonate	497-19-8	15.0-30.0	H319
Disodium carbonate, compound with hydrogen peroxide (2:3)	15630-89-4	5.0-15.0	H272, H302, H318
Citric acid	77-92-9	<5.0	H319
Cellulose	9004-34-6	<5.0	None
Protease (Subtilisin) (aep)	9014-01-1	<1.0	H303, H315, H334, H401, H412
Alpha-amylase (aep)	9000-90-2	<1.0	H334



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The above ingredients are parts of the mixture, which is helpful for product classification and identification.

SECTION 4: FIRST AID MEASURE

Description of first aid measures.

Inhalation	Move to fresh air. If symptoms persist, get medical advice/attention.
Ingestion	Rinse mouth. Do NOT induce vomiting. Drink small amount of water to dilute. Immediately call a POISON CENTER or doctor/physician.
Skin contact	IF ON SKIN: Wash with plenty of Water. Remove/Take off immediately all contaminated clothing. Immediately call a POISON CENTER or doctor/physician. Discontinue use of product.
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.

SECTION 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.

SECTION 6: ACCIDENTAL RELEASE METHODS

Personal precautions, protective equipment and emergency procedures.



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6.1 For non-emergency personnel

6.1.1 Protective equipment: Wear suitable gloves and eye/face protection.

6.1.2 For emergency responders

Protective equipment : Wear suitable gloves and eye/face protection

6.2 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.

6.3 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.

SECTION 7: HANDLING AND STORAGE

Handling

Avoid contact with eyes. Do NOT ingest.

Do not eat, drink or smoke when using this product. 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 prevent fires and explosions

to and

Due to its non-flammable nature, 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

Product must be kept between 0°C and 30°C.

For storage up to 25 days

Keep product between 0°C and 35°C.



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For storage greater than 25 days Keep product between 0°C and 30°C.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredient name	Exposure limits
Sodium Carbonate (497-19-8)	Dusts not otherwise classified: 8hr TWA = 10 mg/m ³
Sodium percarbonate (15630-89-4)	Dusts not otherwise classified: 8hr TWA = 12.8 mg/m ³

Control

Exposure controls This product does not pose a hazard in normal use. Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower. Ensure adequate ventilation.

Engineering measures

Personal protective equipment

Eye protection Wear chemical goggles

Skin Wear appropriate protective gloves to prevent skin exposure.

Clothing Wear a chemical apron.

Respirators In case of inadequate ventilation A NIOSH/MSHA approved air purifying dust or mist respirator or European standard EN 149.

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

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Important health, safety and environmental information

Item	Specification	Item	Specification
Appearance	Tablet	Odour	No fragrance



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Colour	White to off white	Boiling point	Not determined
pH (1%)	10.0 - 11.4	Flammability	Does not ignite
Flash point	Not applicable	Oxidising properties	Not determined
Explosive properties	Not applicable	Relative density	Not determined
Vapour pressure	Not applicable	Solubility	Soluble in water
Viscosity	Not applicable		

Other information. Nil

SECTION 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	Not required for normal conditions of use.
Incompatible materials	Do not mix with acid materials
Hazardous decomposition products	None when stored and used under normal conditions.

SECTION 11: INFORMATION ON TOXICOLOGY

11.1 Mixture

Acute toxicity	Not classified (*)
Skin corrosion/irritation	Not classified (*)
Serious eye damage/irritation	Causes serious eye irritation.
Respiratory or skin sensitisation	Not classified (*)



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Germ cell mutagenicity	Not classified (*)
Carcinogenicity	Not classified (*)
Reproductive toxicity	Not classified (*)
Specific target organ toxicity (single exposure)	Not classified (*)
Specific target organ toxicity (repeated exposure)	Not classified (*)
Aspiration hazard	Not classified (*)

(*) Based upon available data of the substances and/or the product, product classification criteria are not met. See Section 2 and Section 16 for applicable hazard classification and classification procedure, respectively.

11.2 Substances in the mixture

Acute Toxicity

Ingredient name	Result	Species	Dose	Exposure
Sodium carbonate	LD50 Oral LC50 Inhalation	Rat Rat	4090mg/kg 5750mg/kg	- 2 hours
Disodium carbonate compound with hydrogen peroxide (2:3)	LD50 Oral LD50 Dermal	Rat Rat	1034mg/kg >2000 mg/kg	-
Citric acid	LD50 Oral LD50 Dermal	Rat Rat	5400mg/kg >2000 mg/kg	-
Protease(Subtilisin) (aep)	LD50 Oral	Rat	1800mg/kg	-
Alpha-amylase (aep)	LD50 Oral	Rat	>2000mg/kg	-

Irritation/Corrosion

Ingredient name	Result	Species	Score	Exposure	Observation
Sodium carbonate	Eyes - Serious irritation	Rabbit	-	24 hours	-



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Disodium carbonate compound with hydrogen peroxide (2:3)	Eyes - Serious damage	Rabbit	-	-	-
Citric acid	Eyes - Serious irritation	Rabbit	-	-	-
Protease(Subtilisin) (aep)	Skin - Irritation	Rabbit	-	-	-
Alpha-amylase (aep)	Skin - No irritation Eyes - No irritation	Rabbit	-	-	-

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



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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

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity No known significant effects or critical hazards
Aquatic ecotoxicity

Ingredient name	Result	Species	Exposure
Sodium carbonate	LC50 300 mg/L EC50 265 mg/L	Lepomis macrochirus Daphnia magna	96 hours 48 hours
Disodium carbonate compound with hydrogen peroxide (2:3)	LC50 70.7 mg/L EC50 2 mg/L	Fish Algae	96 hours 48 hours
Citric acid	LC50 440 mg/L	Fish	48 hours
Protease (Subtilisin) (aep)	EC50 586 µg aep/l ErC50 830 µg aep/l LC50 8.2 mg aep/l	Daphnia Algae Fish	48 hours 72 hours 96 hours
Alpha-amylase (aep)	EC50 31.7-457 mg aep/l ErC50 \geq 5.2 mg aep/l LC50 58.3-326.7 mg aep/l	Daphnia Algae Fish	48 hours 72 hours 96 hours

Toxicity

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



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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	None
Other adverse effects	-

SECTION 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.
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SECTION 14: TRANSPORT INFORMATION

14.1	UN number	Not applicable
14.2	UN proper shipping name	Not applicable
14.3	Transport hazard class(es)	Not applicable
	Classification for ROAD and RAIL transport:	Not regulated
	IMDG/IMO:	Not regulated
	IATA/ICAO:	Not regulated
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

SECTION 15: REGULATORY INFORMATION



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15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1 EU-Regulations

Commission Regulation (EC) No. EU2020/878 of 18th June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Contains no REACH substances with Annex XVII restrictions.

Contains no substance on the REACH candidate list.

Contains no REACH Annex XIV substances.

CESIO recommendations:

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Other information, restriction and prohibition regulations:

Regulation (EC) No. 648/2004 of 31 March 2004 on detergents. Classification according to Regulation (EC) No. 1272/2008 [CLP]. Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.

15.1.2 National regulations

No additional information available

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

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Issue Date: Dec. 9th, 2024

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. The information given in this safety data sheet is designed as a guide for safe handling, use, processing, storage, transportation, disposal and release. 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.



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