



Safety Data Sheet

SECTION 1. Identification of the substance or mixture and of the company / undertaking

1.1. Product identifier

Code: dishwashing tablets

Name **MARINE DISHWASHING TABS 28,48 Adw 2017**

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

Description / Use detergent in dishwasher tablets for household.

1.3. Details of the supplier of the safety data sheet

Company UT EUROPE SRL

Address Via Scarsellini 119, 10° piano

District and Country 16149 Genova (GE)

Italy

tel. 039/4694678

fax 039/0106467352

e-mail address of the person responsible,
responsible for the safety data sheet sales@uteurope.it

1.4. Emergency telephone number

For urgent inquiries refer to 0106467352

SECTION 2. Hazards identification.

2.1. Classification of the substance or mixture.

The product is classified as hazardous under the provisions of Regulation (EC) 1272/2008 (CLP) (and subsequent amendments). The product thus requires a safety data sheet complies with the provisions of Regulation (EC) 1907/2006 and subsequent amendments. Further information on the risks to health and / or environmental hazards can be found in sections. 11 and 12 of this sheet.

Classification and hazard statements:

Eye irritation, category 2 H319 Causes serious eye irritation.

2.2. Label's elements

Danger labeling under Regulation (EC) 1272/2008 (CLP) and subsequent amendments.

Hazard pictograms:



Warnings: warning

Hazard statements:

H319 Causes serious eye irritation.



MARINE DISHWASHING TABS 28,48

Adw 2017

Precautionary statements:

P101 If medical advice is needed, please have the product container or label
P102 Keep out of reach of children.

P280 Protect your eyes and face.

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

P337 + P313 attention if irritation of the eyes persists, get medical advice/attention.

EUH 208 Contains subtilisin: may cause allergic reactions

2.3. Other hazards.

No one.

SECTION 3. Composition / information on ingredients.**3.1. Substances.**

Information not relevant.

3.2. Mixtures.

It contains:

Identificationm.	Conc. %.	Classification 1272/2008 (CLP).
SODIUM CARBONATE		
CAS. 497-19-8	20 - 30	Eye Irrit. 2 H319
CE. 207-838-8		
INDEX. 011-005-00-2		
Nr. Reg. 01-2119485498-19		
DISODIUM CARBONATE, COMPOUND WITH HYDROGEN PEROXIDE (2:3)		
CAS. 15630-89-4	10 - 20	Ox. Sol. 3 H272, Acute Tox. 4 H302, Eye Dam. 1 H318
CE. 239-707-6		
INDEX. -		
Nr. Reg. 01-2119457268-30		
LONG CHAIN ALCOHOL, ALKOXYLATED		
CAS. 166736-08-9	1 - 5	Eye Irrit. 2 H319, Skin Irrit. 2 H315
CE. -		
INDEX. -		
(1-HYDROXYETHYLIDENE) BISPHOSPHONATE TETRASODIUM		
CAS. 3794-83-0	1 - 5	Acute Tox. 4 H302, Eye Irrit. 2 H319
CE. 223-267-7		
INDEX. -		

SODIUM SILICATE



MARINE DISHWASHING TABS 28,48

Adw 2017

CAS. 1344-09-8 1 - 5 Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335

CE. 215-687-4
INDEX. -
Nr. Reg. 01-2119448725-31

SUBTILISIN

CAS. 9014-01-1 0 - 0,5 Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335, Resp. Sens. 1 H334, Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411

CE. 232-752-2
INDEX. -
Nr. Reg. 01-2119480434-38

ZINC SULFATE HEPTAHYDRATE

CAS. 7446-20-0 0 - 0,25 Acute Tox. 4 H302, Eye Dam. 1 H318, Aquatic Chronic 1 H410

CE. 231-793-3
INDEX. 030-006-00-9
Nr. Reg. 01-2119474684-27-XXXX

Note: Value of upper range excluded.

The full text of hazard (H) phrases is given in section 16.

SECTION 4. First aid measures.**4.1. Description of first aid measures.**

EYES: Remove contact lenses. Wash immediately with plenty of water for at least 30-60 minutes, opening her eyes. Consult physician immediately.

SKIN: Take off contaminated clothing. Take a shower immediately. Consult physician immediately.

Ingestion: Make drink water as much as possible. Consult physician immediately. Do not induce vomiting unless expressly authorized by the doctor.

Inhalation: Call a physician immediately. Bring to fresh air, away from the accident site. If breathing has stopped, administer artificial respiration. Take adequate precautions for the rescuer.

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

For symptoms and effects caused by the contained substances see chap. 11.

4.3. Indication of any need for immediate medical attention and special treatment.

Information not available.

SECTION 5. Fire-fighting measures.



5.1. Extinguishing.

SUITABLE EXTINGUISHING

The fire fighting to the conventional kind: carbon dioxide, foam, powder and nebulised water.

EXTINGUISHING MEDIA NOT SUITABLE

None in particular.

5.2. Special hazards arising from the substance or mixture.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Avoid breathing products of combustion.

5.3. Recommendations for those to firefighting.

GENERAL INFORMATION

Cool by spraying with water the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention. Collect extinguishing water to prevent it from draining into the drain. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

EQUIPMENT

Normal clothing to fight the fire, like a compressed air breathing apparatus open circuit (EN 137), complete with flame retardant (EN469), fire resistant gloves (EN 659) and boots Firefighter (HO A29 or A30).

SECTION 6. Measures in case of accidental release.

6.1. Personal precautions, protective equipment and procedures in case of emergency.

Avoid formation of dust spraying the product with water if there are no contraindications. Avoid breathing vapors / mists / gas.

Wear suitable protective equipment (including personal protective equipment referred to in section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These guidelines apply to both clerks who work for the emergency interventions.

6.2. Environmental precautions.

Prevent product from entering the sewers, surface water, ground water.

6.3. Methods and materials for containment and cleaning.

Pick up mechanically sparking the leaked product and place in containers for recovery or disposal. Eliminate the remainder using jets of water if there are no contraindications.

Ensure adequate ventilation of the area affected by the loss. Check the incompatibilities for the container material in section 7. The disposal of contaminated material must be in compliance with the provisions of section 13.

6.4. Reference to other sections.

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage.

7.1. Precautions for safe handling.

Handle the product after consultation with all other sections of this sheet. Avoid dispersal of the environment. Do not eat, drink or smoke while handling it.



MARINE DISHWASHING TABS 28,48

Edition date 24/01/2017

Printed on 24/01/2017
Reconfirmed by UT Europe on 27/09/2017

Adw 2017

Pag n. 5/11

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2. Conditions for safe storage, including any incompatibilities.

Store only in the original container. Store closed containers in a well-ventilated area, away from direct sunlight. Store containers away from any incompatible materials, checking section 10.

7.3. Specific end use.

Information not available.

SECTION 8. Exposure controls / personal protection.

8.1. Control parameters.

Normative requirements:

EU OEL EU Directive 2009/161 / EU; Directive 2006/15 / EC; Directive 2004/37 / EC; Directive 2000/39 / EC.

SODIUM CARBONATE

Health - Derived No effect - DNEL / DMEL

Effects on consumers. Effects on workers

Route of Exposure Local acute Systemic acute chronic Systemic chronic Local acute Systemic acute chronic Systemic chronic

Inhalation. 10 mg / m3 VND 10 mg / m3 VND

DISODIUM CARBONATE, COMPOUND WITH HYDROGEN PEROXIDE (2: 3)

Concentration is not expected to effect `environmental - PNEC.

Reference value in fresh water 0.035 mg / l

Reference value in sea water 0.035 mg / l

Reference value for microorganisms STP 16,24 mg / l

Health - Derived No effect - DNEL / DMEL

Effects on consumers. Effects on workers

Route of Exposure Local acute Systemic acute chronic Systemic chronic Local Local Local acute Systemic acute chronic Systemic chronic

Inhalation. 5 mg / m3 VND

Dermal. 6.4 mg VND 6.4 mg / m2 VND 12.8 mg / cm2 VND 12.8 mg / cm2 VND

(1-hydroxyethylidene) bisphosphonate TETRASODIUM

Concentration is not expected to effect `environmental - PNEC.

Reference value in fresh water 0.136 mg / l

Reference value in sea water 5.9 mg / kg wwt

Reference value for the terrestrial compartment 96 mg / kg wwt

Health - Derived No effect - DNEL / DMEL

Effects on consumers. Effects on workers

Route of Exposure Local acute Systemic acute chronic Systemic chronic Local Local Local acute Systemic acute chronic Systemic chronic

Oral. VND 6.5 mg / kg VND 13 mg / kg

Subtilisin

TLV.

Type Country TWA / 8h STEL / 15min

mg / m3 ppm mg / m3 ppm

OEL EU 0.00004 30

Legend:

(C) = CEILING; INALAB = Inhalable fraction; RESPIR = Respirable fraction; Torac = Fraction Thoracic.

VND = hazard identified but no DNELs / PNECs available; NEA = no anticipated exposure; NPI = no hazard identified.



8.2. Exposure controls.

As the use of adequate technical equipment must always take priority over personal protection equipment, ensure good ventilation in the workplace through effective local aspiration. The personal protective equipment must bear the CE mark attesting to their compliance with applicable regulations.

Provide emergency shower and eye wash disposal

HAND PROTECTION

In case there is a prolonged contact with the product, you may want to protect your hands with gloves resistant to penetration (ref. Standard EN 374). Final selection of the material of the gloves must also evaluate the process of using the product and any other products derived from them. It also recalled that the latex gloves may result in sensitization.

SKIN PROTECTION

Wear work clothes with long sleeves and safety shoes for professional use of Category II (ref. Directive 89/686 / EEC and standard EN ISO 20344). Wash with soap and water after removing protective clothing.

EYE PROTECTION

You should wear protective airtight goggles (ref. Standard EN 166).

RESPIRATORY PROTECTION

Not required, unless otherwise stated in the chemical risk assessment.

ENVIRONMENTAL EXPOSURE CONTROLS.

Emissions from production processes, including those from ventilation should be checked for compliance with the regulations of environmental protection.

SECTION 9. Physical and chemical properties.

9.1. Information on basic physical and chemical.

Appearance solid
 Color white/blue
 Lemon odor
 Odour threshold. Not available.
 pH. 10.5
 Melting or freezing. Not available.
 Initial boiling point. Not available.
 Boiling range. Not available.
 Flash point. Not available.
 Evaporation rate Not available.
 Flammability of solids and gases Not available.
 Lower explosive limit. Not available.
 Upper limit of flammability. Not available.
 Lower explosive limit. Not available.
 Upper explosive limit. Not available.
 Vapour pressure. Not available.
 Vapour density Not available.
 Relative density. 1,000 Kg / l
 Solubility soluble in water
 Partition coefficient: n-octanol / water: Not available.
 Auto-ignition temperature. Not available.
 Decomposition temperature. Not available.
 Viscosity Not available.
 Explosive properties Not available.
 Oxidising properties Not available.

9.2. More information.

Information not available.

SECTION 10. Stability and reactivity.



MARINE DISHWASHING TABS 28,48

Edition date 24/01/2017

Printed on 24/01/2017
Reconfirmed by UT Europe on 27/09/2017

Adw 2017

Pag n. 7/11

10.1. Reactivity.

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability.

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions.

In normal conditions of use and storage no dangerous reactions are predictable.

10.4. Conditions to avoid.

None in particular. However the usual precautions against chemicals.

10.5. Incompatible materials.

Information not available.

10.6. Hazardous decomposition products.

Information not available.

SECTION 11. Toxicological information.**11.1. Information on toxicological effects.**

In the absence of experimental toxicological data on the product itself, the potential risks of the product to health were evaluated based on the properties of substances, according to the criteria laid down by the relevant regulations for classification. Consider therefore the concentration of each substance possibly dangerous cited in sect. 3, to evaluate the toxicological effects deriving to the product exposure.

Acute effects: contact with eyes causes irritation; Symptoms may include: redness, swelling, pain and tearing. Ingestion may cause health disorders, including stomach pain and sting, nausea and vomiting.

Acute effects: contact with skin may cause irritation, erythema, edema, dryness and chapped skin. Ingestion may cause health disorders, including stomach pain and sting, nausea and vomiting.

The product contains substance / sensitizing and / i and therefore may cause an allergic reaction.

(1-hydroxyethylidene) bisphosphonate TETRASODIUM

LD50 (Oral) .940 mg / kg rat

LD50 (Dermal).> 2000 mg / kg rabbit

DISODIUM CARBONATE, COMPOUND WITH HYDROGEN PEROXIDE (2: 3)

LD50 (Oral) .1034 mg / kg

LC50 (inhalation) .1200 mg / m3

ALCOHOL LONG CHAIN, alkoxyated

LD50 (Oral).> 2000 mg / kg rat

Subtilisin

LD50 (Oral) .1800 mg / KG

LD50 (Dermal) .2 ml / kg



LC50 (inhalation) .0,8 ml / l

SODIUM CARBONATE

LD50 (Oral) .4090 mg / kg Rat

LD50 (Dermal) .117 mg / kg Mouse

LC50 (inhalation) .2,3 mg / l / 2h Rat

SECTION 12. Ecological information.

There are no data on the product, according to good working practices, avoiding littering. Avoid discharge into the soil and waterways. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation. Take steps to minimize the effects on ground water.

12.1. Toxicity.

DISODIUM CARBONATE, COMPOUND WITH HYDROGEN PEROXIDE (2: 3)

LC50 - Fish. > 70 mg / l / 96h

ALCOHOL LONG CHAIN, alkoxyated

LC50 - Fish. 100 mg / l / 96h

EC50 - crustaceans. 100 mg / l / 48h

EC50 - Algae / aquatic plants. 100 mg / l / 72h

Subtilisin

Chronic NOEC Algae / aquatic plants. 0.041 mg / l

12.2. Persistence and degradability.

SODIUM CARBONATE

Solubility in water. mg / l 1000-10000

Biodegradation: Not Available.

12.3. Bioaccumulation potential.

Information not available.

12.4. Mobility in soil.

Information not available.

12.5. Results of PBT and vPvB.

Based on the available data, the product does not contain PBT or vPvB percentage greater than 0.1%.

PBT: no

VPvBs: no.

12.6. Other adverse effects.

nobody.

SECTION 13. Disposal considerations.

13.1. Methods of waste treatment.

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorized waste management, in compliance with national and local regulations.

CONTAMINATED PACKAGING



Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

Recover if possible.

To dispose of the product or containers uncleaned / reclaimed ask to companies expressly authorized to the management of waste (recovery or disposal of hazardous waste).

Containers cleaned / decontaminated should be disposed of / recovered as special waste

Never discharge the product into surface water or groundwater.

Where applicable, refer to the following regulatory provisions: 91/156 / EEC, 91/689 / EEC, 94/62 / EC and subsequent adjustment.

SECTION 14. Transport information.

14.1. UN number.

Not applicable.

14.2. Shipping Name ONU.

Not applicable.

14.3. Classes Transport hazard.

Not applicable.

14.4. Packing group.

Not applicable.

14.5. Dangers for the environment.

Not applicable.

14.6. Special precautions for users.

Not applicable.

14.7. Transport in bulk according Annex II of MARPOL 73/78 and the IBC Code.

Non relevant information.

SECTION 15. Regulatory information.

15.1. Standards and legislation, health legislation specific for the substance or mixture.

Seveso category. No.

Restrictions relating to the product or contained substances pursuant to Annex XVII to Regulation (EC) 1907/2006.

No.



Substances in Candidate List (Art. 59 REACH).

No.

Substances subject to authorization (Annex XIV REACH).

No.

Substances subject to export notification Reg. (EC) 649/2012:

No.

Substances subject to the Rotterdam Convention:

No.

Substances subject to the Stockholm Convention:

No.

Healthcare controls.

Workers exposed to this chemical agent to health must undergo health checks according to the provisions of Article. 41 of Legislative Decree no. 81 dated 9 April 2008 unless the risk to the safety and health of the worker has been assessed irrelevant, according to art. 224 paragraph 2.

15.2. Chemical safety assessment.

It was developed a chemical safety assessment for the mixture and the substances it contains.

SECTION 16. Other information.

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Ox. Sol. 3 Oxidising solid, category 3
 Acute Tox. 4 Acute toxicity, category 4
 Skin Corr. 1B Skin corrosion, category 1B
 Eye Dam. 1 Serious eye damage, category 1
 Eye Irrit. 2 Eye irritation, category 2
 Skin Irrit. 2 Skin irritation, category 2
 STOT SE 3 Specific target organ toxicity - single exposure, category 3
 Resp. Sens. 1 Respiratory sensitization, Category 1
 Aquatic Acute 1 Hazardous to the aquatic environment, acute toxicity, category 1
 Aquatic Chronic 2 Hazardous to the aquatic environment, Chronic Category 2
 H272 May intensify fire; combustion.
 H302 Harmful if swallowed.
 H314 Causes severe skin burns and eye damage.
 H318 Causes serious eye damage.
 H319 Causes serious eye irritation.
 H315 Causes skin irritation.
 H335 May cause respiratory irritation.
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H400 Very toxic to aquatic organisms.
 H411 Toxic to aquatic life with long lasting effects.

LEGEND:

- ADR: European Agreement concerning the transport of dangerous goods by road
- CAS NUMBER: Chemical Abstract Service
- EC50: Concentration that gives effect to 50% of the population subject to testing
- EC NUMBER: ID number in ESIS (European archive of existing substances)



MARINE DISHWASHING TABS 28,48

Edition date 24/01/2017

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Reconfirmed by UT Europe on 27/09/2017

Adw 2017

Pag n. 11/11

- CLP: Regulation EC 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonised System for classification and labeling of chemicals
- IATA DGR: Regulation for the transport of dangerous goods by the International Air Transport Association
- IC50: Concentration of immobilization of 50% of the population subject to testing
- IMDG Code International Maritime Dangerous Goods
- IMO: International Maritime Organization
- INDEX NUMBER: ID number ANNEX VI of CLP
- LC50: Lethal concentration, 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent, bioaccumulative and toxic according to REACH
- PEC: Predicted Environmental Concentration
- PEL: Level foreseeable exposure
- Levels PNEC: Predicted No Effect
- REACH Regulation EC 1907/2006
- RID: Regulations concerning the international carriage of dangerous goods by rail
- TLV: Threshold Limit Value
- TLV CEILING: Concentration which should not be exceeded during any time EXPOSURE work.
- TWA STEL: Short Term Exposure Limit
- TWA: Exposure Limit Weighted average
- VOC: Volatile Organic Compound
- VPvB: Very persistent and very bioaccumulative according to REACH
- WGK: Water hazard class (Germany).

GENERAL BIBLIOGRAPHY

1. Regulation (EU) 1907/2006 of the European Parliament (REACH)
 2. Regulation (EU) 1272/2008 of the European Parliament (CLP)
 3. Regulation (EU) 790/2009 of the European Parliament (I Atp. CLP)
 4. Regulation (EU) 2015/830 of the European Parliament
 5. Regulation (EU) 286/2011 of the European Parliament (II Atp. CLP)
 6. Regulation (EU) 618/2012 of the European Parliament (III Atp. CLP)
 7. Regulation (EU) 487/2013 of the European Parliament (IV Atp. CLP)
 8. Regulation (EU) 944/2013 of the European Parliament (V Atp. CLP)
 9. Regulation (EU) 605/2014 of the European Parliament (VI Atp. CLP)
- The Merck Index. - 10th Edition
 - Handling Chemical Safety
 - INRS - Fiche Toxicologique (toxicological sheet)
 - Patty - Industrial Hygiene and Toxicology
 - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
 - Web Site Agency ECHA

Note: USER:

The information in this sheet are based on our knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

It should not be construed as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility the laws and the existing provisions on hygiene and safety. Do not assume responsibility for improper use.

Provide adequate training to staff chemicals use

Changes to previous review.

Changes were made to the following sections:

03/08/11.

END OF DATA SHEET