



# MATERIAL SAFETY DATA SHEET

Conforms to Reg. (EU) 878/2020

Issued on 31/03/2022

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

### 1.1. Product identifier

Code: TERZI08  
Product name: TAB 5 Lavastoviglie  
UFI: PYT5-80PA-H005-GGNS

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

Identified Uses	Industrial	Professional	Consumer
dishwasher detergent	-	✓	✓

#### Uses Advised Against

Do not use for uses other than those indicated

### 1.3. Details of the supplier of the safety data sheet

Name: NEW FADOR S.r.l.  
Full address: via Mario Calderara, 31  
District and Country: 25018 Montichiari (BS)  
Italia

Tel. +39 030961 243

[www.newfador.it](http://www.newfador.it)

e-mail address of the competent person  
responsible for the Safety Data Sheet

[info@newfador.it](mailto:info@newfador.it)

### 1.4. Emergency telephone number

For urgent inquiries refer to

NEW FADOR S.r.l.

+39 030961 243

(08.30 - 17.30)

## SECTION 2. Hazards identification

### 2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Eye irritation, category 2

H319

Causes serious eye irritation.

### 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



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Signal words: Warning

Hazard statements:

**H319** Causes serious eye irritation.

Precautionary statements:

**P102** Keep out of reach of children.  
**P305+P351+P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
**P280** Wear eye protection / face protection.  
**P337+P313** If eye irritation persists: Get medical advice / attention.  
**P101** If medical advice is needed, have product container or label at hand.  
**P264** Wash hands thoroughly after handling.

Ingredients according to Regulation (EC) No. 648/2004

Less than 5% phosphonates, non-ionic surfactants, polycarboxylates, phosphates  
5% or over but less than 15% oxygen-based bleaching agents

enzymes

perfumes, Limonene

## 2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration  $\geq$  0.1%.

## SECTION 3. Composition/information on ingredients

### 3.1. Substances

Information not relevant

### 3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
<b>SODIUM CARBONATE</b>		
CAS 497-19-8	$19 \leq x < 29$	Eye Irrit. 2 H319
EC 207-838-8		
INDEX 011-005-00-2		



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REACH Reg. 01-2119485498-19

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

CAS 15630-89-4

$5 \leq x < 15$

Ox. Sol. 3 H272,  
Acute Tox. 4 H302,  
Eye Dam. 1 H318  
Eye Dam. 1 H318:  $\geq 25\%$ , Eye Irrit. 2 H319:  $\geq 7,5\%$   
LD50 Oral: 893

EC 239-707-6

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REACH Reg. 01-2119457268-30

## SILICIC ACID, SODIUM SALT

CAS 1344-09-8

$3 \leq x < 5$

Eye Irrit. 2 H319,  
Skin Irrit. 2 H315,  
STOT SE 3 H335

EC 215-687-4

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REACH Reg. 01-2119448725-31

## 2-PROPYLHEPTANOL ETHOXYLATED, PROPOXYLATED

CAS 166736-08-9

$1 \leq x < 3$

Eye Irrit. 2 H319,  
Skin Irrit. 2 H315

EC 605-450-7

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## ZINC SULPHATE (HYDROUS) (MONO-, HEXA- AND HEPTA HYDRATE)

CAS 7733-02-0

$0,01 \leq x < 0,08$

Acute Tox. 4 H302,  
Eye Dam. 1 H318,  
Aquatic Acute 1 H400 M=1,  
Aquatic Chronic 1 H410 M=1  
LD50 Oral: 920 mg/m3 air 4h

EC 231-793-3

INDEX 030-006-00-9

REACH Reg. 01-2119474684-27

## SUBTILISIN

CAS 9014-01-1

$0,01 \leq x < 0,08$

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  
LD50 Oral: 1800

EC 232-752-2

INDEX 647-012-00-8

REACH Reg. 01-2119480434-38

The full wording of hazard (H) phrases is given in section 16 of the sheet.

## SECTION 4. First aid measures

### 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Wash contaminated clothing before using it again.



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INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.  
INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

Specific information on symptoms and effects caused by the product are unknown.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Information not available

## SECTION 5. Firefighting measures

#### 5.1. Extinguishing media

##### SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

##### UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

#### 5.2. Special hazards arising from the substance or mixture

##### HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products.

#### 5.3. Advice for firefighters

##### GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

##### SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal firefighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

## SECTION 6. Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

If there are no contraindications, spray powder with water to prevent the formation of dust.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

#### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

#### 6.3. Methods and material for containment and cleaning up

Collect the leaked product and place it in containers for recovery or disposal. If there are no contraindications, use jets of water to eliminate product residues.

Make sure the leakage site is well aired. Evaluate the compatibility of the container to be used, by checking section 10. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.



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## 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

Ensure that there is an adequate earthing system for the equipment and personnel. Avoid contact with eyes and skin. Do not breathe powders, vapours or mists. Do not eat, drink or smoke during use. Wash hands after use. Avoid leakage of the product into the environment.

### 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store in a ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent blows. Keep containers away from any incompatible materials, see section 10 for details.

### 7.3. Specific end use(s)

Information not available

## SECTION 8. Exposure controls/personal protection

### 8.1. Control parameters

#### SODIUM CARBONATE

##### Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation			10 mg/m <sup>3</sup>				10 mg/m <sup>3</sup>	

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

##### Predicted no-effect concentration - PNEC

Normal value in fresh water				0,035		mg/l		
Normal value in marine water				0,035		mg/l		
Normal value for water, intermittent release				0,035		mg/l		
Normal value of STP microorganisms				16,24		mg/l		

##### Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation							5 mg/m <sup>3</sup>	
Skin	6,4 mg/cm <sup>2</sup>		6,4 mg/cm <sup>2</sup>		12,8 mg/cm <sup>2</sup>		12,8 mg/cm <sup>2</sup>	

#### SILICIC ACID, SODIUM SALT

##### Predicted no-effect concentration - PNEC

Normal value in fresh water				7,5		mg/l		
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Normal value in marine water	1	mg/l
Normal value of STP microorganisms	348	mg/l

Health - Derived no-effect level - DNEL / DMEL								
Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				0,8 mg/kg bw/d				
Inhalation								5,61 mg/m3
Skin				0,8 mg/kg bw/d				1,59 mg/kg bw/d

## SUBTILISIN

Predicted no-effect concentration - PNEC								
Normal value in fresh water	0,0017	mg/l						
Normal value in marine water	0,00017	mg/l						
Normal value for water, intermittent release	0,0009	mg/l						
Normal value of STP microorganisms	65	mg/l						
Normal value for the terrestrial compartment	0,568	mg/kg						

Health - Derived no-effect level - DNEL / DMEL								
Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		3,6 mg/kg bw/d		1,8 mg/kg bw/d				
Inhalation			0,000015 mg/m3				0,00006 mg/m3	

## ZINC SULPHATE (HYDROUS) (MONO-, HEXA- AND HEPTA HYDRATE)

Predicted no-effect concentration - PNEC								
Normal value in fresh water	0,0206	mg/l						
Normal value in marine water	0,0061	mg/l						
Normal value for fresh water sediment	117,8	mg/kg						
Normal value for marine water sediment	56,5	mg/kg						
Normal value of STP microorganisms	0,1	mg/l						
Normal value for the terrestrial compartment	35,6	mg/kg						

Health - Derived no-effect level - DNEL / DMEL								
Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				0,83 mg/kg bw/d				
Inhalation				1,25 mg/m3				1 mg/m3
Skin				8,3 mg/kg bw/d				8,3 mg/kg bw/d

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.



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Personal protective equipment must be CE marked, showing that it complies with applicable standards.  
Provide an emergency shower with face and eye wash station.

## HAND PROTECTION

In the case of prolonged contact with the product, protect the hands with penetration-resistant work gloves (see standard EN 374).  
Work glove material must be chosen according to the use process and the products that may form. Latex gloves may cause sensitivity reactions.

## SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

## EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

## RESPIRATORY PROTECTION

None required, unless indicated otherwise in the chemical risk assessment.

## ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

## SECTION 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance	solid	
Colour	white with yellow dots	
Odour	lemon	
Melting point / freezing point	0 °C	
Initial boiling point	Not applicable	
Boiling range	Not applicable	
Flammability	not flammable	
Lower explosive limit	Not available	
Upper explosive limit	Not available	
Flash point	Not available	
Auto-ignition temperature	Not applicable	
Decomposition temperature	> 55 °C	
pH	10,3 - 11,3	
Kinematic viscosity	Not applicable	
Dynamic viscosity	Not applicable	
Solubility	soluble in water	
Partition coefficient: n-octanol/water	Not available	
Vapour pressure	Not available	
Density and/or relative density	1 kg/l	
Relative vapour density	Not available	
Particle characteristics	Not available	

### 9.2. Other information



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## 9.2.1. Information with regard to physical hazard classes

Information not available

## 9.2.2. Other safety characteristics

Explosive properties not classified as explosive,  
contains no explosive  
substances according to CLP  
Art. (14 (2))

Oxidising properties  
The mixture contains  
Sodium Percarbonate

## SECTION 10. Stability and reactivity

### 10.1. Reactivity

Information not available

### 10.2. Chemical stability

Information not available

### 10.3. Possibility of hazardous reactions

The product may react violently with water.

### 10.4. Conditions to avoid

Avoid overheating. Prevent moisture or water from penetrating inside the containers.

### 10.5. Incompatible materials

Information not available

### 10.6. Hazardous decomposition products

Information not available

## SECTION 11. Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available





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## Interactive effects

Information not available

## ACUTE TOXICITY

ATE (Inhalation) of the mixture: Not classified (no significant component)  
ATE (Oral) of the mixture: >2000 mg/kg  
ATE (Dermal) of the mixture: Not classified (no significant component)

## SODIUM CARBONATE

LD50 (Dermal): > 2000 mg/kg bw rabbit  
LD50 (Oral): 2800 mg/kg bw Rat  
LC50 (Inhalation mists/powders): 800 mg/l/2h guinea pig

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

LD50 (Dermal): > 2000 mg/kg rabbit  
LD50 (Oral): 893 mg/kg rat

## SILICIC ACID, SODIUM SALT

LD50 (Dermal): > 5000 mg/kg  
LD50 (Oral): 3400 mg/kg  
LC50 (Inhalation mists/powders): 2,06 mg/l/4h

## 2-PROPYLHEPTANOL ETHOXYLATED, PROPOXYLATED

LD50 (Oral): > 300 mg/kg rat

## SUBTILISIN

LD50 (Oral): 1800 mg/kg rat

## ZINC SULPHATE (HYDROUS) (MONO-, HEXA- AND HEPTA HYDRATE)

LD50 (Dermal): > 2000 mg/kg bw rat  
LD50 (Oral): 920 mg/kg bw rat  
LC50 (Inhalation mists/powders): 4,5 mg/m<sup>3</sup> air 4h hamster

## SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

## SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

## RESPIRATORY OR SKIN SENSITISATION

### Respiratory sensitization

Information not available

### Skin sensitization

Information not available

## GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

## CARCINOGENICITY

Does not meet the classification criteria for this hazard class

## REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

### Adverse effects on sexual function and fertility

Information not available

### Adverse effects on development of the offspring

Information not available

### Effects on or via lactation

Information not available

## STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

### Target organs

Information not available

### Route of exposure

Information not available

## STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

### Target organs



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Information not available

Route of exposure

Information not available

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

## 11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

## SECTION 12. Ecological information

### 12.1. Toxicity

SILICIC ACID, SODIUM SALT

LC50 - for Fish	260 mg/l/96h
EC50 - for Crustacea	1700 mg/l/48h
EC50 - for Algae / Aquatic Plants	207 mg/l/72h

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

LC50 - for Fish	70,7 mg/l/48h 48h
EC50 - for Crustacea	4,9 mg/l/48h
Chronic NOEC for Crustacea	2 mg/l

2-PROPYLHEPTANOL ETHOXYLATED,  
PROPOXYLATED

LC50 - for Fish	> 10 mg/l/96h <i>Brachydanio rerio</i>
EC50 - for Crustacea	> 10 mg/l/48h <i>Daphnia magna</i>
EC50 - for Algae / Aquatic Plants	> 10 mg/l/72h <i>Scenedesmus subspicatus</i>

SODIUM CARBONATE

LC50 - for Fish	300 mg/l/96h <i>Lepomis macrochirus</i>
EC50 - for Crustacea	200 mg/l/48h
EC50 - for Algae / Aquatic Plants	10 mg/l
Chronic NOEC for Fish	560 mg/l 96h
Chronic NOEC for Algae / Aquatic Plants	1 mg/l

ZINC SULPHATE (HYDROUS) (MONO-,  
HEXA- AND HEPTA HYDRATE)

LC50 - for Fish	0,112 mg/l/96h <i>Thymallus arcticus</i>
EC50 - for Crustacea	0,115 mg/l/48h <i>Ceriodaphnia dubia</i>

SUBTILISIN

LC50 - for Fish	8,2 mg/l/96h <i>Oncorhynchus mykiss</i>
EC50 - for Crustacea	0,17 mg/l/48h <i>Daphnia magna</i>
EC50 - for Algae / Aquatic Plants	0,29 mg/l/72h <i>Pseudokirchneriella subcapitata</i>



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Chronic NOEC for Fish	0,006 mg/l 33 d
Chronic NOEC for Crustacea	0,0367 mg/l/48 h Daphnia magna
Chronic NOEC for Algae / Aquatic Plants	0,041 mg/l 72h, Pseudokirchneriella subcapitata

## 12.2. Persistence and degradability

DISODIUM CARBONATE, COMPOUND  
WITH HYDROGEN PEROXIDE (2:3)  
Degradability: information not available

2-PROPYLHEPTANOL ETHOXYLATED,  
PROPOXYLATED  
Rapidly degradable

SODIUM CARBONATE

Solubility in water 1000 - 10000 mg/l  
Degradability: information not available

ZINC SULPHATE (HYDROUS) (MONO-,  
HEXA- AND HEPTA HYDRATE)  
Degradability: information not available

SUBTILISIN

Rapidly degradable

## 12.3. Bioaccumulative potential

ZINC SULPHATE (HYDROUS) (MONO-,  
HEXA- AND HEPTA HYDRATE)  
BCF 0,002 60 d

## 12.4. Mobility in soil

Information not available

## 12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.

## 12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

## 12.7. Other adverse effects

Information not available

## SECTION 13. Disposal considerations

### 13.1. Waste treatment methods

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



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evaluated according to applicable regulations.

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

CONTAMINATED PACKAGING

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

## SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

### 14.1. UN number or ID 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. Maritime transport in bulk according to IMO instruments

Information not relevant

## SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EU: None

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

Contained substance

Point 75

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

Not applicable



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## Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage  $\geq$  than 0,1%.

## Substances subject to authorisation (Annex XIV REACH)

None

## Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

## Substances subject to the Rotterdam Convention:

None

## Substances subject to the Stockholm Convention:

None

## Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

## Regulation (EC) No. 648/2004

Ingredients according to Regulation (EC) No. 648/2004

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.

## **15.2. Chemical safety assessment**

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

## **SECTION 16. Other information**

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

<b>Ox. Sol. 3</b>	Oxidising solid, category 3
<b>Acute Tox. 4</b>	Acute toxicity, category 4
<b>Eye Dam. 1</b>	Serious eye damage, category 1
<b>Eye Irrit. 2</b>	Eye irritation, category 2
<b>Skin Irrit. 2</b>	Skin irritation, category 2
<b>STOT SE 3</b>	Specific target organ toxicity - single exposure, category 3
<b>Resp. Sens. 1</b>	Respiratory sensitization, category 1
<b>Aquatic Acute 1</b>	Hazardous to the aquatic environment, acute toxicity, category 1
<b>Aquatic Chronic 1</b>	Hazardous to the aquatic environment, chronic toxicity, category 1
<b>H272</b>	May intensify fire; oxidiser.
<b>H302</b>	Harmful if swallowed.
<b>H318</b>	Causes serious eye damage.
<b>H319</b>	Causes serious eye irritation.
<b>H315</b>	Causes skin irritation.
<b>H335</b>	May cause respiratory irritation.



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**H334** May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**H400** Very toxic to aquatic life.

**H410** Very toxic to aquatic life with long lasting effects.

## LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

## GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
  2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
  3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
  4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
  5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
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  11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
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  13. Regulation (EU) 2017/776 (X Atp. CLP)
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  16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
  17. Regulation (EU) 2019/1148
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  19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
  20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
  21. Delegated Regulation (UE) 2021/849 (XVII 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
  - IFA GESTIS website



# MATERIAL SAFETY DATA SHEET

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- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

#### Note for users:

The information contained in the present sheet are based on our own 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.

This document must not be regarded 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, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

#### CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

#### Changes to previous review:

The following sections were modified:

02 / 03 / 09 / 11 / 12 / 15.