#### Revision nr. 5 Cimbali Group S.P.A. Dated 17/01/2024 Printed on 17/01/2024 **ECO JETSAN** Page n. 1/17 Replaced revision:4 (Dated: 22/11/2022)

# Safety Data Sheet According to Annex II to REACH - Regulation (EU) 2020/878

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

1.1. Product identifier

Code: CIMBALI\_ECOJETSAN (610004159)

Product name **ECO JETSAN** 

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

Pre-wash detergent for professional use. Intended use

Uses advised against: Uses other than those stated.

1.3. Details of the supplier of the safety data sheet

Cimbali Group S.P.A.

Full address Via A. Manzoni, 17 20082 - Binasco (MI) District and Country

**ITALY** 

tel. +39 02 90049406 fax +39 02 900049336

e-mail address of the competent person

responsible for the Safety Data Sheet infosds@gruppocimbali.com

1.4. Emergency telephone number

For urgent inquiries refer to Malta

Healthcare Professionals: +353 (01) 809 2566 (24 hour service) Ireland

GRUPPO CIMBALI SPA Company emergency telephone number: +39 02 90049406 - technical support only (08-18)

# **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:

Serious eye damage, category 1 H318 Causes serious eye damage.

# 2.2. Label elements

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

Hazard pictograms:



Signal words: Danger

Hazard statements:

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H318 Causes serious eye damage.

Precautionary statements:

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.

P310 Immediately call a POISON CENTER / doctor.

Contains: 2-ETHYLHEXANOL ETHOXYLATED

SODIUM ETASULFATE

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

Less than 5% Anionic surfactants, Soap 5% or over but less than 15% Non-ionic surfactants

# 2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%. The product does not contain substances with endocrine disrupting properties in concentration ≥ 0.1%.

# **SECTION 3. Composition/information on ingredients**

# 3.2. Mixtures

Contains:

Identification x = Conc. % Classification (EC) 1272/2008 (CLP)

2-ETHYLHEXANOL ETHOXYLATED

INDEX  $5 \le x \le 8$  Eye Dam. 1 H318

EC -

CAS 26468-86-0

TETRASODIUM N,N-BIS(CARBOXYLATOMETHYL)-L-GLUTAMATE

INDEX -  $3 \le x \le 4$  Met. Corr. 1 H290

EC 257-573-7 CAS 51981-21-6

REACH Reg. 01-2119493601-38-xxxx

**SODIUM ETASULFATE** 

INDEX -  $1 \le x \le 2.5$  Eye Dam. 1 H318, Skin Irrit. 2 H315 EC 204-812-8 Eye Irrit. 2 H319  $10\% \le C < 20\%$ :

Eye Dam. 1 H318 C ≥ 20%:

CAS 126-92-1

REACH Reg. 01-2119971586-23-XXXX

**SODIUM SILICATE\*** 

INDEX -  $1 \le x \le 2.5$  Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335

EC 215-687-4 CAS 1344-09-8

REACH Reg. 01-2119448725-31

\* The molar ratio (MR) of Silicic acid, sodium salt declared by the supplier is as follows: 2.6 < MR =< 3.2, with a silica (SiO2) concentration > 72% and a sodium oxide (Na2O) concentration < 28%.

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

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# **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 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

PROTECTIVE MEASURES FOR THE FIRST RESCUE WORKERS: for PPE (personal protection equipment) required for first aid refer to section 8.2 of this safety data sheet.

#### 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

Treat symptomatically.

In case of accident or if you feel unwell, seek medical advice immediately (show directions for use or safety data sheet if possible).

# **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

Direct water jets.

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

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products, including:

Carbon monoxide (CO).

Carbon dioxide (CO2).

Nitrogen oxides (NOx).

#### 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 fire fighting 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

#### 6.1.1 For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Do not touch or walk through spilled material. Wear appropriate respirator when ventilation is inadequate.

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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. Do not breathe mist/vapour. Avoid leakage of the product into the environment.

Non-emergency personnel must follow the appropriate internal procedures in case of accidental release.

#### 6.1.2 For emergency responders

Block the leakage if there is no hazard. Evacuate unprotected and untrained personnel from hazard area. Wear suitable protective equipment. (see Section 8 of this Safety data sheet)

Follow the appropriate internal procedures in case of accidental release.

Keep fumes and vapours under control. Isolate hazard area and deny entry. Ventilate closed spaces before entering. Send away individuals who are not suitably equipped. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

#### 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 into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 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

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. Storage temperature: store at room temperature

#### 7.3. Specific end use(s)

No use other than as indicated in section 1.2 of this safety data sheet

# **SECTION 8. Exposure controls/personal protection**

#### 8.1. Control parameters

TETRASODIUM N,N-BIS(CARBOXYLATOMETHYL)-L-GLUTA Predicted no-effect concentration - PNEC	AMATE		
Normal value in fresh water	9,45	mg/l	
Normal value in marine water	0,945	mg/l	
Normal value of STP microorganisms	41,2	mg/l	
Normal value for the food chain (secondary poisoning)	67	mg/kg	
Normal value for the terrestrial compartment	0,5	mg/kg/d	

Health - Derived	no-effect	level - DNEL / DMEL	
		Effects on	

s on	Effects on

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D	consumers	A	01	01 :	workers		01	01 :
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				1,5 mg/kg bw/d				
Inhalation				1,8 mg/m3				7,3 mg/m3
Skin				7500 mg/kg bw/d				15000 mg/kg bw/d
SODIUM ETASULFATE								
Predicted no-effect concentra	ition - PNEC							
Normal value in fresh water				0,136	mg	/I		
Normal value in marine water				0,014	mg	/I		
Normal value for fresh water	sediment			1,5	mg	/kg/d		
Normal value for marine water	r sediment			0,15	mg	/kg/d		
Normal value for water, interr	nittent release			4,83	mg	ı/I		
Normal value of STP microor	ganisms			1,35	mg/l			
Normal value for the terrestria	al compartment			0,22	mg	/kg/d		
Health - Derived no-effe	ct level - DNEL / I Effects on consumers	OMEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				24 mg/kg bw/d				
Inhalation			VND	85 mg/m3			VND	285 mg/m3
Skin			VND	2440 mg/kg bw/d			VND	4060 mg/kg bw/d
SODIUM SILICATE								
Predicted no-effect concentra	tion - PNEC							
Normal value in fresh water				7,5	mg	/I		
Normal value in marine water				1	mg	/I		
Normal value for water, interr	nittent release			7,5	mg	/I		
Normal value of STP microor	ganisms			348	mg	/I		
		!\		348	mg	/kg		
Normal value for the food cha	in (secondary poison	ling)						
	ct level - DNEL / I				Effects on workers			
Health - Derived no-effe	ct level - DNEL / [		Chronic local	Chronic systemic	Effects on workers Acute local	Acute systemic	Chronic local	Chronic systemic
Normal value for the food cha  Health - Derived no-effe  Route of exposure  Inhalation	ct level - DNEL / I Effects on consumers	OMEL	Chronic local		workers		Chronic local	
Health - Derived no-effe	ct level - DNEL / I Effects on consumers	OMEL	Chronic local		workers			systemic

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

#### Recommended monitoring practices

The reference European Standards are:

- UNI EN 689 standard "Guide to the assessment of exposure by inhalation to chemical compounds for the purpose of comparison with the limit values and measurement strategy";

- UNI EN 482 standard "general requirements for the performance of chemical agent measurement procedures".

#### 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

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#### through effective local aspiration.

When choosing personal protective equipment, ask yourtechnical equipment supplier for advice.

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

Protect hands with category III work gloves (see standard EN 374).

#### Recommended materials:

Natural rubber, Nitrile/butadiene rubber (nitrile or NBR), Neoprene, Polyvinyl chloride (PVC or vinyl).

Protection class: 6 (permeation time greater than 480 minutes according to EN 374).

Recommended material thickness: When identifying the relevant material and thickness to be used, it is highly recommended to consult directly with the PPE manufacturer in order to assess the actual protection on the basis of use and duration of use.

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

#### THERMAL HAZARDS

Based on the use described in sect. 1.2, protective gloves are not required for heat and/or flame hazards.

#### 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 ISO 16321).

#### RESPIRATORY PROTECTION

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. Use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387).

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

#### 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 liquid

Colour light blue

Odour odourless

Melting point / freezing point not available

Initial boiling point not available

Flammability

Non-flammable as it contains no flammable components

Lower explosive limit

Non-flammable as it contains no flammable components

Upper explosive limit

Non-flammable as it contains no flammable components

Flash point not available
Auto-ignition temperature not available

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Decomposition temperature not available

pH 11,1

Kinematic viscosity not available
Solubility Water-soluble

Partition coefficient: n-octanol/water not available, see section 12 for individual substances

Vapour pressure not available

Density and/or relative density 1,07 g/ml

Relative vapour density not available

Particle characteristics not applicable on the basis of physical state

#### 9.2. Other information

9.2.1. Information with regard to physical hazard classes

# Corrosive to metals Corrosive to metals

Remark: The mixture is not considered corrosive to metals, as the corrosion rate against steel and aluminium was negligible (Test report no.: 23LA02094 of 15/01/2024)

9.2.2. Other safety characteristics

Not available.

# **SECTION 10. Stability and reactivity**

# 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

Under normal conditions of use and storage, no hazardous reactions are to be expected. However, avoid contact with incompatible materials.

# 10.4. Conditions to avoid

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

# 10.5. Incompatible materials

Light metals, Strong oxidizing agents, Strong acid, sugar residues.

# 10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

# **SECTION 11. Toxicological information**

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In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

#### 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

Interactive effects

Information not available

#### ACUTE TOXICITY

ATE (Inhalation) of the mixture:

ATE (Oral) of the mixture:

ATE (Dermal) of the mixture:

Not classified (no significant component)

Not classified (no significant component)

Not classified (no significant component)

# TETRASODIUM N,N-BIS(CARBOXYLATOMETHYL)-L-GLUTAMATE

LD50 (Oral) > 2000 mg/kg Rat - EC. B.1 LD50 (Dermal) > 2000 mg/kg Rat - OECD 402 LC50 (Inhalation) > 42 mg/l/4h Rat - OECD 403

#### SODIUM ETASULFATE

Method: equivalent or similar to OECD 401

Reliability (Klimisch score): 2

Species: Rat (Tif RAI f; Male / Female)

Routes of exposure: oral

Results: LD50 = 2840 mg / kg body weight

Method: OECD 402 - read across Reliability (Klimisch score): 2 Species: Rat (Wistar; Male / Female)

Routes of exposure: dermal

Results: LD50> 2000 mg / kg body weight

# SODIUM SILICATE

Method: equivalent or similar OECD 401

Reliability (Klimisch score): 2 Material: molar ratio = 3.27 Species: Rat (Wistar, male/female)

Routes of exposure: oral Results: 5150 mg/kg

Bibliographic reference: SIDS Initial Assessment Report for SIAM 18 Paris, France 20-23 April, 2004

Method: According to EPA OPPTS 870.1200

Reliability (Klimisch score): 1

Species: Rat (Albino Sprague-Dawley, male/female)

Routes of exposure: dermal Results: > 5000 mg/kg

Method: According to EPA OPPTS 870.1300

Reliability (Klimisch score): 1

Species: Rat (Albino Sprague-Dawley, male/female)

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Routes of exposure: inhalation (vapours)

Results: > 2.06 mg/L/ 4h.

#### SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

#### TETRASODIUM N,N-BIS(CARBOXYLATOMETHYL)-L-GLUTAMATE

Not irritating to the skin (rabbit - OECD TG 404).

# SODIUM ETASULFATE

Method: OECD 404

Reliability (Klimisch score): 2

Species: Rabbit (New Zealand White)

Routes of exposure: dermal

Results: irritating

#### SODIUM SILICATE

Skin corrosion/irritation:

Method: according to OECD 404 Reliability (Klimisch score): 2 Material: molar ratio = 2.4

Species: Rabbit (New Zealand White)

Routes of exposure: dermal

Results: irritating.

Bibliographic reference: SIDS Initial Assessment Report for SIAM 18 Paris, France 20-23 April, 2004.

#### SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

#### TETRASODIUM N,N-BIS(CARBOXYLATOMETHYL)-L-GLUTAMATE

Not irritating to the eyes (Rabbit - OECD TG 405)

#### SODIUM ETASULFATE

Method: OECD 405

Reliability (Klimisch score): 2

Species: Rabbit (New Zealand White)

Routes of exposure: ocular

Results: irritating

#### 2-ETHYLHEXANOL ETHOXYLATED

Causes serious eye damage, (Source: Information available in the supplier's SDS).

#### SODIUM SILICATE

Serious eye damage/eye irritation:

Method: in vivo test on rabbit ocular tissue

Reliability (Klimisch score): 4

Species: rabbit

Results: moderately irritating
Bibliographic reference: York, M. et al. (1994).

# RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

# SODIUM ETASULFATE

Method: equivalent or similar to OECD 429

Reliability (Klimisch score): 2 Species: Mouse (CBA; Female) Routes of exposure: dermal Results: not sensitizing to the skin.

SODIUM SILICATE

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Respiratory or skin sensitization

Method: in vivo test according to OECD 429

Reliability (Klimisch score): 2

Species: mouse local lymph nodes (female)

Results: non-sensitizing

Reference: Karrow, N. A. et al., Am. J. Contact. Dermat. 13, 133-139 (2002).

#### TETRASODIUM N,N-BIS(CARBOXYLATOMETHYL)-L-GLUTAMATE

Not sensitizing to the skin (Guinea pig - OECD TG 406)

# GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

#### TETRASODIUM N,N-BIS(CARBOXYLATOMETHYL)-L-GLUTAMATE

In vitro tests

Negative with and without metabolic activation - OECD Guideline 471 (Bacterial Reverse Mutation Assay)

In vivo tests

Not genotoxic under normal test conditions (mouse - OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test))

#### SODIUM ETASULFATE

Method: equivalent or similar to OECD 471 - in vitro test

Reliability (Klimisch score): 2 Species: S. typhimurium

Results: negative with and without metabolic activation

# SODIUM SILICATE

Based on available literature data, the substance does not present mutagenic effects.

#### CARCINOGENICITY

Does not meet the classification criteria for this hazard class

# TETRASODIUM N,N-BIS(CARBOXYLATOMETHYL)-L-GLUTAMATE

Test not available

#### SODIUM ETASULFATE

Method: equivalent or similar to OECD 453

Reliability (Klimisch score): 2 Species: Rat (Wistar; Male / Female)

Routes of exposure: oral

Results: Negative. NOAEL> 1125 mg / kg body weight / day

#### SODIUM SILICATE

Based on available literature data, the substance does not have carcinogenic effects.

# REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

# SODIUM ETASULFATE

Method: equivalent or similar to OECD 414

Reliability (Klimisch score): 2 Species: Rat (Wistar) Routes of exposure: oral Results: Negative

#### SODIUM SILICATE

Based on available literature data, the substance does not present reproductive toxicity effects.

# Adverse effects on sexual function and fertility

TETRASODIUM N,N-BIS(CARBOXYLATOMETHYL)-L-GLUTAMATE

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Method: OECD Guideline 416 (Two-Generation Reproduction Toxicity Study)

Reliability (Klimisch score): 1 Species: Male/Female Wistar rat Routes of exposure: oral

Results: NOAEL F1 - F2: >= 15 000 ppm

#### Adverse effects on development of the offspring

#### TETRASODIUM N,N-BIS(CARBOXYLATOMETHYL)-L-GLUTAMATE

Method: OECD Guideline 414 (Prenatal Developmental Toxicity Study)

Reliability (Klimisch score): 1 Species: Rabbit (New Zealand White)

Routes of exposure: oral

Results: NOAEL (maternal toxicity): 75 mg/kg bw/day, NOAEL (fetal development): >= 300 mg/kg bw/day

#### STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

#### TETRASODIUM N,N-BIS(CARBOXYLATOMETHYL)-L-GLUTAMATE

Based on available data, the substance does not present specific target organ toxicity effects for single exposure and is not classified under the relevant CLP hazard class.

#### SODIUM ETASULFATE

Based on available data, the substance has no specific target organ toxicity effects for single exposure and is not classified under the relevant CLP hazard class

#### SODIUM SILICATE

Irritating to the mucosa of the respiratory tract due to inhalation of alkaline dust particles.

Bibliographic reference: SIDS Initial Assessment Report for SIAM 18 Paris, France 20-23 April, 2004.

# STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

# TETRASODIUM N,N-BIS(CARBOXYLATOMETHYL)-L-GLUTAMATE

Based on available data, the substance does not present specific target organ toxicity effects upon repeated exposure and is not classified under the relevant CLP hazard class.

#### SODIUM ETASULFATE

Method: equivalent or similar to OECD 408

Reliability (Klimisch score): 2 Species: Rat (Wistar; Male / Female)

Routes of exposure: oral

Results: Negative. NOAEL = 488 mg / kg body weight / day

#### SODIUM SILICATE

Based on available literature data, the substance does not present specific toxicity effects for target organs following repeated exposure.

#### 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**

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

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#### 12.1. Toxicity

TETRASODIUM N,N-BIS(CARBOXYLATOMETHYL)-L-GLUTAMATE

LC50 - for Fish > 100 mg/l/96h Oncorhynchus mykiss (OECD 203)
EC50 - for Crustacea > 100 mg/l/48h Daphnia magna (OECD 202)

EC50 - for Algae / Aquatic Plants > 100 mg/l/72h Desmodesmus subspicatus (OECD 201)

LC10 for Fish 153 mg/l/9d Danio rerio (OECD 212)

Chronic NOEC for Crustacea > 265,7 mg/l/21d Daphnia magna (OECD 211)

SODIUM ETASULFATE

LC50 - for Fish > 100 mg/l/96h Danio rerio, OECD 203 (data based on similar substance)

EC50 - for Crustacea 483 mg/l/48h Daphnia magna, EU Method C.2

EC50 - for Algae / Aquatic Plants > 511 mg/l/72h Desmodesmus subspicatus, EU Method C.3 (data based on

similar substance)

Chronic NOEC for Crustacea 1,4 mg/l 21 d Daphnia magna, OECD TG 211, study in read across)

SODIUM SILICATE

LC50 - for Fish 1108 mg/l/96h Brachydanio rerio (OECD 203)
EC50 - for Crustacea 1700 mg/l/48h Daphnia magna (EU Method C.2)

EC50 - for Algae / Aquatic Plants 207 mg/l/72h Desmodesmus subspicatus (DIN 38412, Teil 9)

#### 2-ETHYLHEXANOL ETHOXYLATED

Endpoint: LC50 - Species: Fish (Carassius Auratus) > 100 mg/l - Time h: 96

Endpoint: EC50 - Species: Dafnie > 100 mg/l - Time h: 48

Source: Supplier's SDS

#### 12.2. Persistence and degradability

SODIUM ETASULFATE

rapidly degradable (equivalent or similar to OECD 301 B)

TETRASODIUM N,N-BIS(CARBOXYLATOMETHYL)-L-GLUTAMATE

Rapidly degradable, OECD Guideline 301 D

SODIUM SILICATE

Degradability: information not available

Inorganic substance

2-ETHYLHEXANOL ETHOXYLATED

Rapidly degradable (Test: OECD 301F - Time: 28 days - %: 70). Source: Supplier's SDS

#### 12.3. Bioaccumulative potential

SODIUM SILICATE: Bioaccumulative potential: minimal.

TETRASODIUM N,N-BIS(CARBOXYLATOMETHYL)-L-GLUTAMATE

Partition coefficient: n-octanol/water -11 Log Kow 27°C - OECD TG 117

SODIUM ETASULFATE

Partition coefficient: n-octanol/water -0,248 Log Kow OECD TG 123

#### 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 ≥ 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 evaluated according to applicable regulations. (Directive 2008/98/EC and subsequent amendments and adjustments and related national transpositions). Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

The legal responsibility for disposal is the producer / holder of the waste.

To this mixture different EWC codes could be applied (European Waste Code) based on the specific circumstances that generated the waste, possible alterations and / or possible contamination.

The product as such, contained in the original packaging, or decanted in an appropriate container for the purpose of disposal, or no longer usable (for example following an accidental spill), must be classified with a EWC code that is compatible with the description of the use indicated in section 1.2.

The suitable final destination of the waste must be evaluated by the manufacturer on the basis of the chemical-physical characteristics of the waste, the compatibility with the authorized facility to which it will be given for recovery, and the definitive treatment or disposal according to the procedures established by current regulations.

Disposal through wastewater discharge is not permitted.

For hazardous substances registered according to Regulation EC 1907/2006 (REACH), for which a chemical safety report has been drawn up, refer to the specific information contained in the exposure scenarios attached to this SDS.

#### CONTAMINATED PACKAGING

Contaminated packaging must be sent, properly labeled, to recovery or disposal in compliance with national waste management regulations and must be classified with the following EWC code:

15 01 10\*: packaging containing residues of or contaminated by dangerous substances

# **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)

# Revision nr. 5 Cimbali Group S.P.A. Dated 17/01/2024 Printed on 17/01/2024 **ECO JETSAN** Page n. 14/17 Replaced revision:4 (Dated: 22/11/2022) 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 Product Point Liquid substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: (a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F; (b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10; (c) hazard class 4.1; (d) hazard class 5.1. Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors not applicable Substances in Candidate List (Art. 59 REACH) On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%. Substances subject to authorisation (Annex XIV REACH) Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012: None

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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

Less than 5% Anionic surfactants, Soap 5% or over but less than 15% Non-ionic surfactants

#### 15.2. Chemical safety assessment

A chemical safety assessment has been performed for the following contained substances

SODIUM SILICATE

# **SECTION 16. Other information**

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008

# Classification according to Regulation (EC) Nr. 1272/2008

Serious eye damage, category 1 H318

Classification procedure Calculation method

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

Met. Corr. 1 Substance or mixture corrosive to metals, category 1

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

H290 May be corrosive to metals.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.

H315 Causes skin irritation.

H335 May cause respiratory irritation.

# 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

# Cimbali Group S.P.A. **ECO JETSAN** 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 PEC: Predicted environmental Concentration PEL: Predicted exposure level PMT: Persistent, mobile and toxic 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 vPvM: Very persistent and very mobile 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 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament 12. Regulation (EU) 2016/1179 (IX Atp. CLP) 13. Regulation (EU) 2017/776 (X Atp. CLP) 14. Regulation (EU) 2018/669 (XI Atp. CLP) 15. Regulation (EU) 2019/521 (XII Atp. CLP) 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP) 17. Regulation (EU) 2019/1148 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP) 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)

22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)

23. Delegated Regulation (UE) 2023/707

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

ECHA website

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

# Note for the recipient of the Safety Data Sheet (SDS):

The recipient of this SDS shall make sure of reading and understanding the information included by all people who handle, store, use, or otherwise come into contact in any way with the substance or mixture to which this SDS is referred to. In particular, the recipient shall provide adequate training to the personnel for the use of hazardous substances and/or mixtures. The recipient shall verify the suitability and completeness of the provided information according to the specific use of the substance or mixture. However, the substance or mixture referred to by this SDS shall not be used for uses other than those specified in Section 1. The Supplier don't assume responsibility for improper uses. Since the use of the product does not fall under the direct

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control of the Supplier, the user shall, under his own responsibility, fulfill national and EU regulations concerning health and safety.  The information included in this SDS are provided in good faith and are based on the current state of scientific and technical knowledge, at the revision date indicated, available to the Supplier indicated in Section 1 of this SDS. It shall not be meant that the SDS is a guarantee of any specific property of the substance or mixture. The information concern only to the substance or mixture used in combination with other materials or in any process not specified in the text.  This version of the SDS substitutes all the previous versions.					
Changes to previous review: The following sections were modified: 02 /03 / 05 /06 /07 /08 /09 /10/ 11 /12 /15 /16					
02/03/03/03/03/10/11/12/13/10					