

SAFETY DATA SHEET

The safety data sheet was prepared in accordance with the rules set out in the Regulation of the Minister of Health of 13.11.2007 on the safety data sheet (Journal of Laws of 2007, No. 215, item 1588).

"LORIMAT" universal powder for washing fabrics

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product ID:

"Lorimat" universal powder for washing fabrics

1.2 Relevant identified uses of the mixture and uses advised against

Product application: for washing fabrics in all types of washing machines and for hand washing.

Uses discouraged: other than those listed above

1.3 Details of the supplier of the safety data sheet:

Otto Oehme GmbH
Industriestraße 20
90584 Allersberg
Tel: +49 9176 980550
info@oehme-lorito.de
www.oehme-lorito.de

1.4 Emergency telephone number

Poison Rescue Centre in Göttingen – 0049 30 30686700

SECTION 2. HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December on classification, labelling and packaging (CLP)

Eye Irrit 2: eye irritation, category 2, H319

2.2 Labeling elements

Regulation No 1272/2008 (CLP):

Attention:



Hazard warnings:

Eye irritation 2: H319 - Causes serious eye irritation

Safety instructions:

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

P102: Keep out of reach of children

P305+P351+P338: IF IN EYES: Rinse carefully with water several minutes. Any contact lenses you may have remove if possible. Continue rinsing

P337+P313: If eye irritation persists: Seek medical advice/care.

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2.3 Other hazards

None when used as intended and in accordance with the recommendations. The product does not meet the PBT/vPvB criteria

SECTION 3. COMPOSITION/INFORMATION ON THE COMPONENTS OF THE MIXTURE

3.1 Substances:





Not applicable

3.2 Mixtures:

Chemical description: Mixture of inorganic and organic substances

Dangerous ingredients :

In accordance with Annex II to Regulation (EC) No 1907/2006 (point 3), the product contains:

Chemical name	Identification	CLASSIFICATION (2)	CONCENTRATION[%]
Sodium carbonate ⁽¹⁾	CAS:497-19-8 EC:207-838-8 REACH:01-2119485498-19-XXXX Index: - none	Eye Irrit. 2, H319 	> 10 ≤ 25
Sodium percarbonate ⁽¹⁾	CAS : 15630-89-4 EC : 239-707-6 REACH: - none Index : - none	Acute Tox. 4:H302; Eye Dam.1:H318; Ox. Sol. 2: H272; 	> 1 ≤ 2.5
Alcohols C12-14, ethoxylated ⁽¹⁾	CAS:68439-50-9 EC:500-213-3 REACH: - none Index: -none	Acute Tox. 4:H302; Aquatic Chronic 3: H412 Eye Dam. 1, H318; 	> 1 ≤ 2.5
Silicic acid, sodium salt , (2,6<MR<= 3,2) ⁽¹⁾	CAS:1344-09-8 EC:215-687-4 REACH: 01-2119448725-31-XXXX Index: -none	Eye Irrit. 2, H319; STOT SE 3, H335; Skin Irrit. 2, H315; 	> 1 ≤ 2.5

(1) Substance presenting a risk to health or the environment which meets the criteria set out in Regulation (EC) No 1907/2006 (Annex VI, Part 1, IUE)5015/830

(2) Regulation 1272/2008(CLP)

For more information on the hazard of the substance, see sections 8,11,12,15 and 16

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SECTION 4.

FIRST AID MEASURES

4.1 Description of first aid measures

General information: in case of occurrence of ailments after contact with the product, consult a doctor and show him a safety data sheet

After eye contamination: Rinse your eyes with plenty of lukewarm water for at least 15 minutes. Do not close or rub your eyes. When using contact lenses, they should be removed as long as they do not stick to the eyes, otherwise additional injuries may occur. In all cases, you should consult a doctor as soon as possible after washing and show him a safety data sheet .

After contact with skin: Remove contaminated clothing. Rinse contaminated skin surfaces with plenty of water and wash off with neutral soap. In severe cases, consult a doctor .

After inhalation: This is a product that is not classified as dangerous by inhalation. Nevertheless, in case of symptoms of intoxication, it is recommended to remove the affected person from the place of exposure, provide him with clean air and keep him in a resting position. If symptoms persist, seek medical attention.

When swallowed: rinse the mouth and throat, do not induce vomiting. Immediately seek medical help.

4.2 Main acute and delayed symptoms and effects of exposure

See section2 and section11

4.3 Indications regarding any immediate medical attention and special treatment of the injured party.

Not applicable

SECTION 5.

FIRE MANAGEMENT

5.1 Extinguishing agents:

The product is non-flammable under normal conditions of storage, handling and use. In case of ignition due to improper handling, storage or application, it is recommended to use powder fire extinguishers (ABC powder) in accordance with the Fire Protection Installations Regulation. It is NOT RECOMMENDED to use a water jet as an extinguishing agent

5.2 Specific risks associated with the product

During combustion or thermal decomposition, reactive subproducts are formed, which can be highly toxic and therefore pose a high health risk

5.3 Information for the fire brigade

Depending on the size of the fire, the use of complete protective clothing and an autonomous breathing apparatus may be required. There should be a minimum stock of equipment or emergency equipment (fireproof ceilings, portable first aid kit, ...) in accordance with Directive 89/654/EC .

Additional instructions:

Follow the internal contingency plan and information sheets for dealing with accidents and other emergencies. Keep any ignition sources away. In the event of a fire, cool the containers and tanks of products that may catch fire or explode or are BLEVE due to elevated temperatures. Leakage of products used in firefighting into groundwater should be avoided.

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SECTION 6. HANDLING OF UNINTENTIONAL RELEASE INTO THE ENVIRONMENT

6.1 Personal precautions, protective equipment and emergency procedures

Avoid slipping on spilled and wet product.

Avoid contact with eyes and skin. Provide adequate ventilation.

6.2 Environmental precautions

Prevent the ingress of surface water/groundwater. In the event of a large discharge into water, the competent authority shall be informed thereof.

6.3 Methods and materials to prevent the spread of contamination and to remove contamination

Mechanically collect as much of the mixture as possible and rinse the residue with plenty of water.

6.4 References to other sections

See Section 8 and Section 13

SECTION 7. HANDLING AND STORAGE OF MIXTURES

7.1 Precautions for safe handling:

a)- Precautions necessary for safe handling of the product.

In terms of preventing risks in the workplace, you must act in accordance with applicable law. Keep packages tightly closed. Control leakages and waste by disposing of it by safe methods (section 6). Do not allow spontaneous leakage from the containers. Maintain order and cleanliness when handling dangerous products.

b)- Technical recommendations for the prevention of fires and explosions.

Due to the degree of flammability, the product does not pose a fire hazard under normal conditions of storage, handling and use.

c)- Technical recommendations to prevent toxicological hazards.

Do not eat or drink when in contact with the product, wash your hands with an appropriate cleaning agent at the end of the activity.

d)- Technical recommendations to prevent environmental hazards.

Place and collect the product with a spatula or other tool and place it in a container for safe disposal. See also sections 8 and 13.

7.2 Conditions for safe storage, including information on any non-compliance

Store in dry rooms in the temperature range from 5 °C to 30 °C

7.3 Specific end use(s)

For washing fabrics in all types of washing machines and for hand washing.

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SECTION 8. EXPOSURE CONTROL/PERSONAL PROTECTIVE EQUIPMENT

8.1 Control parameters

Substances whose occupational exposure limit values are to be controlled (TRGS 900 occupational exposure limit values):

Total permissible dust value: MAK (8h, respirable fraction) = 1.25 mg/m³ MAK (8 hours, inhalable fraction)=10 mg/m³// MAK (15 min, respirable fraction) = 2.5 mg/m³ MAK (15 min, inhalable fraction)=20 mg/m³

DNEL (employees):

Identification		Short exposure time		Long exposure time	
		Systemic	Local	Systemic	Local
Sodium carbonate CAS:497-19-8 EC:207-838-8	oral	no data available	no data available	no data available	no data available
	Skin	no data available	no data available	no data available	no data available
	Inhaled	no data available	no data available	no data available	10mg/m ³
Sodium percarbonate CAS : 15630-89-4 EC : 239-707-6	oral	no data available	no data available	no data available	no data available
	Skin	no data available	no data available	no data available	no data available
	Inhaled	no data available	no data available	no data available	5mg/m ³
Silicic acid, sodium salt , 2,6<MR<= 3,2 CAS:1344-09-8 EC:215-687-4	oral	no data available	no data available	no data available	no data available
	Skin	no data available	no data available	1.59mg/kg	no data available
	Inhaled	no data available	no data available	5.61 mg/m ³	no data available

DNEL (consumers):

Identification		Short exposure time		Long exposure time	
		Systemic	Local	Systemic	Local
Sodium carbonate CAS:497-19-8 EC:207-838-8	oral	no data available	no data available	no data available	no data available
	Skin	no data available	no data available	no data available	no data available
	Inhaled	no data available	10mg/m ³	no data available	no data available

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Silicic acid, sodium salt , 2,6<MR<= 3,2	oral	no data available	no data available	0.8 mg/kg	no data available
CAS:1344-09-8	Skin	no data available	no data available	0.8 mg/kg	no data available
EC:215-687-4	Inhaled	no data available	no data available	1.38mg/m ³	no data available


PNEC


Identification				
Sodium carbonate CAS:497-19-8 EC:207-838-8	STP	16.24 mg/L	Freshwater	0.035mg/L
	soil	no data available	Sea water	0.035mg/L
	Periodic	0.035mg/L	Sediment (fresh water)	no data available
Silicic acid, sodium salt , 2,6<MR<= 3,2 CAS:1344-09-8 EC:215-687-4	Oral	no data available	Sediment (sea water)	no data available
	STP	348mg/L	Freshwater	7.5mg/L
	soil	no data available	Sea water	1mg/L
	Periodic	7.5mg/L	Sediment (fresh water)	no data available
	Oral	no data available	Sediment (sea water)	no data available

8.2 Exposure control

Personal protective equipment:

- a) Respiratory protection: dust half masks are recommended in places of exposure to severe dust.
- b) Hand protection: use chemical-resistant gloves (thickness > 0.1 mm, puncture resistance > 480 min). Take into

account the recommendations of the glove manufacturer. Marking 

- c) Eye protection: wear tightly fitting safety glasses in places of exposure to severe dust. Marking 
- d) Skin protection: wear chemical-resistant protective clothing. Follow the manufacturer's recommendations. Personal protective equipment is required when handling the product in industrial conditions or in large quantities of it (does not apply to the use of the product in households).

Control of environmental exposure:

Under Community environmental law, it is recommended to prevent the product and its packaging from entering the environment. For more information, see section 7.1.

Other information:

Protection measures are required when handling the product in industrial conditions or in large quantities. They are not necessary when using the product in households.

SECTION 9.

PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: white, free-flowing powder with blue and red and green inclusions

Fragrance: pleasant, characteristic of the fragrance used

Odour threshold: no data available

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pH (20°C): max. 10,5 for solution 1%

Melting point/freezing point: not applicable

Initial boiling point and boiling range: not applicable

Flash point: no data available

Evaporation rate: not applicable

Flammability: no data available

Upper/lower explosion limit: no data available

Vapour pressure: not applicable

Vapour density: not applicable

Density (20°C): no data available

Bulk density: 1080 - 1180g/l

Water solubility (20°C): high

Partition coefficient n-octanol/water: not applicable

Auto-ignition temperature: no data available

Decomposition temperature: no data available

Viscosity (dynamic): not applicable

Explosive properties: none

Oxidizing properties: none

9.2 Other information: none

SECTION 10.

STABILITY AND REACTIVITY

10.1 Reactivity

Absence under the conditions of recommended use and storage. See section 7.

10.2 Chemical stability

Stable under the conditions of recommended use.

10.3 Possibility of dangerous reactions

Does not occur under the conditions of recommended use

10.4 Conditions to avoid

Elevated temperature (> 40 °C)

10.5 Non-compliant materials

Absence under the conditions of recommended use

10.6 Dangerous decay products

None under the conditions of recommended use.

SECTION 11.

TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

The product was classified according to the AISE guidelines of November 2008 for the application of Directive (EC) 1999/45/EC.

Product not classified and not labelled as toxic (acute oral toxicity) based on data from the OECD 423 test performed on a product with a similar chemical composition.

Unclassified and not labelled as eye irritant based on data from a test according to a modified OECD Method 405 performed on a product with a similar chemical composition.

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There are no data supported by experiments on the toxicological properties of the product.

Health risk:

In the event of repeated, prolonged exposure or concentrations higher than the established occupational exposure limits, health side effects may occur depending on the route of exposure:

A- Ingestion (acute action):

Acute toxicity: Based on the available data, the classification criteria are not met, but the product contains substances classified as dangerous if swallowed. More information - section 3.

Corrosive/Irritant: Swallowing a significant dose of the product may cause throat irritation, abdominal pain, dizziness and vomiting.

B- Inhalation (acute action):

Acute toxicity: Based on the available data, the classification criteria are not met. The product does not contain substances classified as hazardous when inhaled. For more information, see section 3.

Corrosive/Irritant: Based on the available data, the classification criteria are not met, but the product contains substances classified as dangerous. For more information, see section 3.

C- Skin and eye contact (acute):

Skin contact: If in contact, it causes dermatitis

Eye contact: When in contact with the eyes causes serious damage

D- CMR effects (carcinogenicity, mutagenicity and reproductive toxicity):

Carcinogenicity: Based on the available data, the classification criteria are not met. The product does not contain substances classified as dangerous due to the above-mentioned effects. For more information, see section 3.

IARC: No data available

May cause genetic defects: Based on the available data, the classification criteria are not met. The product does not contain substances classified as dangerous. For more information, see section 3.

May harm fertility: Based on available data, the classification criteria are not met. The product does not contain substances classified as dangerous. For more information, see section 3.

E- Sensitizing effects:

Respiratory: Based on the available data, the classification criteria are not met. The product does not contain substances classified as dangerous due to their sensitizing effects. For more information, see section 3.

Cutaneous: Based on the available data, the classification criteria are not met. The product does not contain substances classified as dangerous. For more information, see section 3.

F- Specific target organ toxicity (STOT) duration of exposure:

Based on the available data, the classification criteria are not met. The product does not contain substances classified as dangerous. For more information, see section 3.

G- Specific target organ toxicity (STOT), repeated exposure:

Specific target organ toxicity (STOT), repeated exposure: Based on the available data, the classification criteria are not met. The product does not contain substances classified as dangerous. For more information, see section 3.

Leather: Based on the available data, the classification criteria are not met. The product does not contain substances classified as dangerous. For more information, see section 3.

H- Aspiration hazard:

Based on the available data, the classification criteria are not met. The product does not contain substances classified as dangerous. For more information, see section 3.

Other information:

No data available

Ingredient information:

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a). Sodium carbonate /CAS: 497-19-8

- **Acute toxicity (oral):** LD50 > 2500 mg/kg (male female rat)
- **Acute (inhalation) toxicity:** LC50 =4100 mg/m³ ((male female rat)
- **Skin irritation:** none (rabbit, 4 hours, OECD method 404)
- **Germ cell mutagenicity:** negative (test reversible cellular mutations)

b). Sodium percarbonate / CAS : 15630-89-4

- **Acute toxicity (oral):** LD50 > 4580 mg/kg (male female rat)
- **Acute (inhalation) toxicity:** LC50 =1034-2000 mg/kg(rat-male female)
- **Skin irritation:** >2000 mg/kg (skin, rabbit)
- **Germ cell mutagenicity:** negative (test reversible cellular mutations)

c). Alcohols C12-14, ethoxylated CAS:68439-50-9

- **Acute toxicity (skin):** LD50 > 2000 mg/kg (rat, OECD method 402)
- **Skin irritation:** Cat 2 irritation (rabbit, OECD method 404)
- **Sensitizing effect (skin):** non-sensitizing (guinea pig, OECD method 406)
- **Mutagenic effects on germ cells:** negative result method -OECD 476, OECD475, experiment - in vitro, mammalian-animal subject OECD method 471, experiment - in vitro, subject-bacterium,
- **Repeated dose toxicity:** LD50 > 125 mg / kg (Condition before chronic oral NOAEL; rat male, female; 90days)
- **Reproductive toxicity:** negative (male rat, orally 30-300mg/kg, exposure-11 weeks)

(d) Silicic acid, sodium salt 1, MR> 1,6 <= 2,6/ CAS: 1344-09-8

- **Acute toxicity (skin):** LD50 = 5000 mg/kg body weight (rat)
- **Acute toxicity (orally):** LD50 = 3400 mg/kg body weight (rat)
- **Acute (inhalation) toxicity:** LC50 = 2.06 g/m³ (rat)
- **Skin corrosion/irritation:** skin irritation/cat 2
- **Serious damage/eye irritation:** highly irritating (rabbit, in vitro)
- **Sensitisation (skin):** non-sensitising (mouse, OECD method 429)
- **Germ cell mutagenicity:** negative (mice, in vivo)
- **Reproductive toxicity:** NOAEL > 159 mg/kg bw/day (rat,)
- **Specific target organ toxicity - NOAEL > 159 mg/kg bw/day, rat:** male and female, 180 days, in drinking water.
- **Respiratory or skin sensitisation:** does not have a skin sensitiser.
- **Mutagenicity :** does not act mutagenically.
- **Carcinogenicity :** not carcinogenic.
- **Reproductive toxicity :** does not have reproductive toxicity.

SECTION 12.

ECOLOGICAL INFORMATION

12.1 Toxicity

There are no data supported by experiments on the eco-toxicological properties of the mixture itself

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Information on ingredients:

(a) sodium carbonate/CAS: 497-19-8:

- **Acute toxicity to fish:**
LC50 = 300 mg/l (96 hours, *Lepomis macrochirus*, OECD method 203)
- **Acute toxicity to algae:**
EC50 = 137 mg/l (5 days, *Nitzschia sp.*, OECD method 201)
- **Acute toxicity to invertebrates:**
LC50 = 200-227 mg/l (48 hours, *Ceriodaphnia sp.*, OECD method 202)

c). Alcohols C12-14, ethoxylated CAS:68439-50-9

- **Acute toxicity to fish:**
LC50 = 7.1 mg / l (96 hours, *Brachydanio rerio*)
NOEC = 1 mg / l (45 days, *Pimephales promelas*)
- **Acute toxicity to algae:**
EC50 = 27 mg/l (72 hours, *Desmodesmus subspicatus*)
EC50 = 2.6 mg / l (72 hours, *Desmodesmus subspicatus*)
- **Acute toxicity to invertebrates :**
EC50 = 7.2 mg/l (48 hours *Daphnia magna*)

(d) Silicic acid, sodium salt , MR> 1,6 <= 2,6/ CAS: 1344-09-8

- **Acute toxicity to fish:**
LC50 = 1108 mg/l (96 hours, *Brachydanio rerio*)
LC50: 260 – 310 mg/l (96 h, *Onchorhynchus mykiss*)
- **Acute toxicity to invertebrates:**
EC50 = 1700 mg/l (48 hours, *Daphnia magna*)

12.2 Durability and degradability

Information on ingredients:

(a) (c). C12-14 alcohols, ethoxylated CAS:68439-50-9

- **Eu EEC C.4-D test** -68%-easy-28days

For anionic and non-ionic surfactants contained in the product, the requirements of Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents are met.

12.3 Bioaccumulation capacity

The product is not capable of bioaccumulation

12.3 Mobility in soil

The product, as well soluble in water, has the ability to penetrate into groundwater and surface water.

12.4 Results of PBT and vPvB assessment

The product does not contain a substance identified as persistent, bioaccumulative and toxic (PBT) and very persistent and very bioaccumulative (vPvB).

12.6 Other harmful effects

No data available

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SECTION 13.

WASTE MANAGEMENT

13.1 Waste disposal methods

Type of waste (Commission Regulation (EU) No 1357/2014) - hazardous. 200129 Code*

Type of waste (Commission Regulation (EU) No 1357/2014):

HP4 Irritant - Skin Irritation and Eye Damage

Waste administration (disposal and evaluation):

It should be handed over to a specialized disposal company authorized to assess and dispose of waste in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC of the European Parliament and of the Council) and OJ. 2013 No. 0 item 21. According to code 15 01 (2014/955/EU), if the container is in direct contact with the product, it should be handled in the same way as the product. Otherwise, it should be handled as non-hazardous waste. Its discharge into watercourses is discouraged. See section 6.2.

Provisions concerning waste management:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH), Community or national provisions related to waste administration have been adopted.

Community law: Directive 2008/98/EC, 2014/955/EU, Commission Regulation (EU) No 1357/2014 National law:

Act of 13 June 2013 on packaging and packaging waste management (i.e. Journal of Laws of 2019 No. 0 item 542) Act of 14 December 2012 on waste (i.e. Journal of Laws of 2019 No. 0 item 701)

SECTION 14.

TRANSPORT INFORMATION

Ground transport of dangerous goods:

In accordance with ADR 2019 and RID 2019 requirements

14.1 UN number (UN number) : N/A

14.2 Correct UN shipping name: Not applicable

14.3 Hazard classe(s) in transport : Not applicable

14.4 Packing group: Not applicable

14.5 Environmental risk: No data available

14.6 Special precautions for users : Not applicable

14.7 Bulk transport in accordance with ANNEX II to MARPOL 73/78 and the IBC Code : Not applicable.

Maritime transport of dangerous goods:

In accordance with the requirements of IMDG 38-16:

14.1 UN number (UN number) : no data available

14.2 Correct UN shipping name: no data available

14.3 Hazard classe(s) in transport : no data available

14.4 Packing group: no data available

14.5 Environmental hazard: No

14.6 Special precautions for users : no data available

14.7 Bulk transport in accordance with ANNEX II to MARPOL 73/78 and the IBC Code : no data available.

Air transport of dangerous goods:

In accordance with IATA/ICAO requirements 2019:

14.1 UN number (UN number) : no data

14.2 Correct UN transport name: no data

14.3 Transport hazard classes(s) in transport : no data

14.4 Packing group: no data

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14.5 Environmental risk: No

14.6 Special precautions for users : no data

14.7 Bulk transport according to the ANNEX, II to MARPOL 73/78 and the IBC Code : no data available.

SECTION 15

REGULATORY INFORMATION

15.1 Safety, health and environmental legislation specific to substances and mixtures

Candidate substances for authorisation under Regulation (EC) No 1907/2006(REACH): No data substances present in Annex XIV reach (list of authorisations) and expiry date: No data available Regulation (EC) No 1005/2009 on substances that deplete the ozone layer: No data available Article 95, Regulation (EU) No 528/2012 of the European Parliament and of the Council: No data available Regulation (EU) No 649/2012 on the export and import of dangerous chemicals No data available

Regulation (EC) No 648/2004 on detergents as amended: According to this Regulation, the product meets the following criteria: The surfactants contained in this mixture meet the biodegradability criterion of Regulation (EC) No 648/2004 on cleaning products. The data confirming this statement are at the disposal of the relevant authorities of the Member States and will be made available to them at the direct request or at the request of the manufacturer of cleaning products..

Labelling on contents: Oxygen-based bleaching compounds % (m/m) < 5 Anionic surfactants % (m/m) < 5 Non-ionic surfactants % by mass < 5 Seveso III: Not available data

Restrictions on the sale and use of certain hazardous substances and mixtures (Annex XVII REACH, etc...):No data specific provisions on the protection of humans or the environment: It is recommended to use the information collected in this safety data sheet as preliminary data for estimating the local hazard in order to take the necessary steps to prevent the occurrence of risks associated with the handling and use of this product, storage and deletion.

Other recipes:

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/9/3 and Commission Regulation (EC) No 1488/94, as well as Council Directive 76/769/EEC and Commission Directive 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC as amended Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC and amending Regulation (EC) No 1907/2006, as amended, the Act of 25 February 2011 on chemical substances and mixtures thereof (i.e. Journal of Laws of 2019 No. 0, item 1225)

Announcement of the Minister of Economy, Labour and Social Policy of 28 August 2003 on the publication of a uniform text of the Regulation of the Minister of Labour and Social Policy on general occupational health and safety regulations (Journal of Laws of 2003 No. 169, item 1650, as amended) Regulation of the Minister of Health of 2 February 2011 on tests and measurements of factors harmful to health in the working environment (Journal of Laws No. 33, item 166 of 2011) Act of 14 December 2012 on waste (i.e. Journal of Laws of 2019 No. 0 item 701) Act of 9 October 2015 on biocidal products (i.e. Journal of Laws of 2018, item 2231) Commission Directive 2000/39/EC of 8 June 2000 establishing the first list of indicative limit values for exposure to external factors at work in connection with the implementation of Council Directive 98/24/EEC on the protection of the health and safety of workers from risks related to chemical agents at work Commission Directive 2006/15/EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values for the

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implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC. Commission Directive 2009/161/EU of 17 December 2009 establishing a third list of indicative occupational exposure values for the implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC. Regulation of the Minister of Health of 11 June 2012 on the category of hazardous substances and dangerous mixtures, the packaging of which is equipped with closures hindering the opening by children and a tactile warning of danger (i.e. Journal of Laws of 2014 No. 0, item 1604) Regulation of the Minister of Economy of 21 December 2005 on the essential requirements for personal protective equipment (Journal of Laws of 2005, No. 259, item 2173).

Commission Directive 2009/161/EU of 17 December 2009 establishing a third list of indicative occupational exposure values for the implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC. Regulation of the Minister of Health of 11 June 2012 on the category of hazardous substances and dangerous mixtures, the packaging of which is equipped with closures hindering the opening by children and a tactile warning of danger (i.e. Journal of Laws of 2014 No. 0, item 1604) Regulation of the Minister of Economy of 21 December 2005 on the essential requirements for personal protective equipment (Journal of Laws of 2005, No. 259, item 2173). Act of 19 August 2011 on the transport of dangerous goods (i.e. Journal of Laws of 2019, No. 0, item 382)

Government Declaration of 22 May 2013 on the entry into force of amendments to the Regulations concerning the International Carriage of Dangerous Goods by Rail (RID), constituting Annex C to the Convention concerning International Carriage by Rail (COTIF), done at Berne on 9 May 1980. (Journal of Laws of 2013, item 840). Regulation of the Minister of Economy of 10 October 2013 on the application of restrictions specified in Annex XVII to Regulation 1907/2006 (i.e. Journal of Laws of 2018, item 1865) Act of 13 June 2013 on packaging and packaging waste management (i.e. Journal of Laws of 2019 No. 0, item 542) Regulation of the Minister of Economy of 29 January 2013 on restrictions in production, the marketing or use of hazardous or hazardous substances and mixtures and the placing on the market or use of articles containing such substances or mixtures (i.e. Journal of Laws of 2019 No. 0, item 1226)

Regulation (EU) No 98/2013 of the European Parliament and of the Council of 15 January 2013 on the marketing and use of explosives precursors Regulation of the Minister of the Environment of 9 December 2014 on the waste catalogue (Journal of Laws of 2014 No. 0, item 1923). Government Statement of 18 February 2019 on the entry into force of amendments to Annexes A and B to the European Agreement on the International Carriage of Dangerous Goods by Road (ADR), done at Geneva on 30 September 1957 (Journal of Laws of 2019, item 769) Act of 15 May 2015 on substances that deplete the ozone layer and on certain fluorinated greenhouse gases (i.e. Journal of Laws of 2018, item 2221, as amended) Regulation of the Minister of Health of 30 December 2004 r. on occupational health and safety related to the occurrence of chemical agents in the workplace (i.e. Journal of Laws of 2016, No. 0, item 1488) Act of 29 July 2005 on counteracting drug addiction (i.e. Journal of Laws 2019 item 852) Regulation of the Minister of Health of 24 July 2012 on chemical substances, their mixtures, agents or technological processes with carcinogenic or mutagenic activity in the working environment (i.e. Journal of Laws of 2016, No. 0, item 1117). Regulation of the Minister of Family, Labour and Social Policy of 12 June 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the working environment (Journal of Laws of 2018, item 1286)

Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents Commission Regulation (EC) No 907/2006 of 20 June 2006 amending Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents for the purpose of adapting Annexes III and VII thereto Commission Regulation (EC) No 551/2009 of 25 June 2009 amending Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents in order to adaptation of Annexes V and VI to that Regulation (derogation for surfactants)

Regulation (EC) No 1336/2008 of the European Parliament and of the Council of 16 December 2008 amending Regulation (EC) No 648/2004 in order to align it with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (OJ L ..., p. EU L 354 of 31 December 2008) 15.2

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Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16.

OTHER INFORMATION

Safety Data Sheet Provisions: This Safety Data Sheet has been established in accordance with ANNEX II-Guidance for Persons Drawing Up Safety Data Sheets to Regulation (EC) No 1907/2006 (Regulation (EU) No 2015/830) Changes from the previous safety data sheet affecting risk management : This issue of the safety data sheet replaces all previous issues of safety data sheets. Texts of the Regulation mentioned in Section 2:

H315: Skin irritant

H318: Causes serious eye damage Texts of the Regulation mentioned in Section 3:

The phrases given do not refer to the product itself, are for informational purposes only and refer to individual ingredients appearing in Chapter 3. Regulation No 1272/2008 (CLP):

Acute Tox. 4: H302 - Harmful if swallowed Aquatic Chronic 3: H412 - Harmful to aquatic organisms, causing long-term effects of Eye Dam. 1: H318 - Causes serious eye damage to Eye Irrit. 2: H319 - Irritating to the eyes of Ox. Sol. 3: H272 - Can intensify fire, Skin Corr oxidizer. 1C: H314 - Causes severe skin burns and eye damage Classification process:

Eye Dam.1: Calculation method

Skin Irrit.2: Calculation method

Staff training advice: It is recommended that personnel who will come into contact with this product receive basic training in occupational safety in order to facilitate the understanding and interpretation of the safety data sheet and the product label. Main sources of literature: <http://echa.europa.eu> <http://eur-lex.europa.eu> Abbreviations used in the text:IMDG:

IATA International Dangerous Goods Code: International Air Transport Association ICAO: International Civil Aviation Organization EC50: effective concentration (concentration of an ingredient at which 50% of organisms have an effect within a certain period of time) LD50: media lethal dose LC50: media lethal concentration EC50: media effective concentration of PBT: ability of toxic substances to bioaccumulate vPvB: very high ability of toxic substances to bioaccumulate STP personal protection: sewage treatment plants STOT: specific target organ toxicity

The information contained in this Safety Data Sheet is based on technical sources and knowledge and on applicable law at European and national level and its accuracy cannot be fully guaranteed. This information cannot be treated as a guarantee of the characteristics of the product, as it is only a description of the requirements for safety issues. The methods and working conditions of the users of this product are beyond our knowledge and control, so it is your responsibility to take appropriate measures to comply with the requirements of the law with regard to the handling, storage, use and disposal of chemical products. The information contained in this Safety Data Sheet refers only to the product concerned, which must not be used for purposes other than those specified therein.

End of security data sheet