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Safety Data Sheet

According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

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

1.1. Product identifier

Product name

CLEAN EXPRESS

1.2. Relevant identified uses of the substance or mixture and uses advised against Intended use Special detergent for cleaning coffee machines.

1.3. Details of the supplier of the safety data sheet

Name Nuova Ricambi srl Via dei Mille, 20 Full address District and Country 20061 Carugate - (MI) Italia

Tel. 029253205

e-mail address of the competent person

responsible for the Safety Data Sheet info@nuovaricambi.net

1.4. Emergency telephone number

For urgent inquiries refer to

Roma

Osp. Pediatrico Bambino Gesù" DEA tel 06 68593726

Az. Osp. Univ. Foggia Az. Osp. "A. Cardarelli" tel 800183459 Foggia tel 081-5453333 Napoli

Roma CAV Policlinico "Umberto I" tel 06-49978000 CAV Policlinico "A. Gemelli" tel 06-3054343 Roma Firenze Az. Osp. "Careggi" U.O. Toss. Medica tel 055-7947819 Pavia CAV C.Naz. Inf. Tossicologica tel 0382-24444 Milano Osp. Niguarda Ca' Granda tel 02-66101029 tel 800883300 Bergamo Az. Osp. Papa Giovanni XXII

Verona Az. Ospedaliera Integrata Verona tel 800011858

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.

By classification and labeling: Oecd 438: 2013 test

Hazard classification and indication:

H319 Eye irritation, category 2 Causes serious eye irritation.

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The classification of the compound, featuring an extreme pH value, is based on the results of an appropriate in vitro test.

2.2. Label elements

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

Hazard pictograms:



Signal words: Warning

Hazard statements:

H319 Causes serious eye irritation.

Precautionary statements:

Wash thoroughly with water after use. P264

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

Wear protective gloves / protective clothing / eye protection / face protection. P280

P337+P313 If eye irritation persists: Get medical advice / attention.

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)

SODIUM CARBONATE

INDEX - $15 \le x < 20$ Eye Irrit. 2 H319

EC 207-838-8 CAS 497-19-8

REACH Reg. 01-2119485498-19

SODIUM TRIPHOSPHATE PENTABASIC

INDEX - $15 \le x < 20$ Substance with a community workplace exposure limit.

EC 231-838-7 CAS 7758-29-4

REACH Reg. 01-2119430450-54
SODIUM PERCARBONATE

INDEX 15 ≤ x < 20 Ox. Liq. 3 H272, Acute Tox. 4 H302, Eye Dam. 1 H318

EC - Eye Dam. 1 H318: ≥ 25%, Eye Irrit. 2 H319: ≥ 10%

CAS 15630-89-4 LD50 Oral: >1034 mg/kg

REACH Reg. 01-2119457268-30-

XXXX

SODIUM METASILICATE

INDEX - 5 ≤ x < 10 Met. Corr. 1 H290, Skin Corr. 1B H314, Eye Dam. 1 H318, STOT SE 3 H335

EC 229-912-9 CAS 10213-79-3

REACH Reg. 01-2119449811-37-

XXX

SODIUM SALTS OF

ALKYLBENZENESULPHONIC ACID

INDEX - 3 ≤ x < 5 Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Chronic 3 H412

EC 932-051-8

CAS -

REACH Reg. 01-2119565112-48-

0000

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 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.

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

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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. The product is combustible and, when the powder is released into the air in sufficient concentrations and in the presence of a source of ignition, it can create explosive mixtures with air. Fires may start or get worse by leakage of the solid product from the container, when it reaches high temperatures or through contact with sources of ignition.

SODIUM PERCARBONATE

Sodium percarbonate: contact with flammable substances is dangerous; decomposition with development of O2.

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).

SODIUM PERCARBONATE

Sodium percarbonate: the product is an oxidiser: easily releasing O2 it fuels fires; protect from heat and humidity.

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.

SODIUM PERCARBONATE

Sodium percarbonate: avoid hermetically closing the container.

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

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DO NOT TRANSFER THE PRODUCT TO CONTAINERS DIFFERENT FROM THE ORIGINAL; RISK OF FATAL FOOD EXCHANGE ERRORS.

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

Regulatory References:

EU OEL EU

Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.

systemic

10 mg/mc

Threshold Limit Valu	е							
Туре	Country	TWA/8h		STEL/15min		Remarks / Observation	ns	
		mg/m3	ppm	mg/m3	ppm			
OEL	EU	10				RESP		
Predicted no-effect conce	ntration - PNEC							
Normal value in fresh wat	er			0,005	mç	g/l		
Normal value in marine w	ater			0,005	mç	g/l		
Normal value for fresh wa	ter sediment			0,19	mç	g/kg		
Normal value for water, in	termittent release			0,05	mç	g/l		
Normal value for the terre	strial compartment			0,14	mç	g/kg		
Health - Derived no-e	ffect level - DNEL /	DMEL						
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation						0,661 mg/m3		0,661 mg/m3
Skin						0,375 mg/kg/d		0,375 mg/kg/d
SODIUM CARBONAT								
Health - Derived no-e	Effect level - DNEL / Effects on consumers	DMEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic

SODIUM PERCARBONATE

Threshold Limit Value

Inhalation

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ype	Country	TWA/8h		STEL/15min		Remarks Observa		
		mg/m3	ppm	mg/m3	ppm			
DEL	EU	5						
redicted no-effect concentra	tion - PNEC							
ormal value for fresh water s	sediment			0,035	mg	ı/kg		
ormal value for water, intern	nittent release			0,035	mg	ı/l		
ormal value of STP microorg	ganisms			16,24	mg	ı/l		
ealth - Derived no-effe	Effects on	DMEL			Effects on			
Coute of exposure	consumers Acute local	Acute systemic	Chronic local	Chronic	workers Acute local	Acute	Chronic local	Chronic
nhalation		•		systemic		systemic	5 mg/m3	systemic
kin					12,8 mg/cm2		- mg/mo	
1111					12,0 1119/01112			
SODIUM METASILICATE								
redicted no-effect concentra								
Normal value of STP microor	ganisms			1000	mg	ı/l		
Health - Derived no-effe		DMEL						
					Effects on			
	Effects on consumers				workers			
Route of exposure		Acute systemic	Chronic local	Chronic systemic	workers Acute local	Acute systemic	Chronic local	Chronic systemic
nhalation	consumers	Acute systemic	Chronic local				Chronic local	systemic 6.22 mg/m
nhalation Skin SODIUM SALTS OF ALK	consumers Acute local		Chronic local				Chronic local	systemic
nhalation Skin SODIUM SALTS OF ALK Predicted no-effect concentra	consumers Acute local		Chronic local	systemic	Acute local	systemic	Chronic local	systemic 6.22 mg/m 1,49 mg/kg
nhalation Skin SODIUM SALTS OF ALK Predicted no-effect concentra Normal value in fresh water	Acute local Acute local EYLBENZENESUL tion - PNEC		Chronic local	systemic 0,268	Acute local	systemic	Chronic local	systemic 6.22 mg/m 1,49 mg/kg
nhalation Skin SODIUM SALTS OF ALK Predicted no-effect concentra Normal value in fresh water	consumers Acute local SYLBENZENESUL tion - PNEC		Chronic local	0,268 0,268	Acute local mg	systemic	Chronic local	systemic 6.22 mg/m 1,49 mg/kg
nhalation Skin SODIUM SALTS OF ALK Predicted no-effect concentra Normal value in fresh water Normal value in marine water Normal value for fresh water s	CYLBENZENESUL tion - PNEC		Chronic local	0,268 0,268 8,1	Acute local mg mg	systemic	Chronic local	systemic 6.22 mg/m 1,49 mg/kg
nhalation Skin SODIUM SALTS OF ALK Predicted no-effect concentra Normal value in fresh water Normal value in marine water Normal value for fresh water shormal value for marine water	CONSUMERS ACUTE local EYLBENZENESUL tion - PNEC sediment r sediment		Chronic local	0,268 0,268 8,1 8,1	Acute local mg mg	systemic	Chronic local	systemic 6.22 mg/m 1,49 mg/kg
nhalation Skin SODIUM SALTS OF ALK Predicted no-effect concentra Normal value in fresh water Normal value in marine water Normal value for fresh water s Normal value for marine wate	CONSUMERS Acute local EYLBENZENESUL tion - PNEC sediment r sediment nittent release		Chronic local	0,268 0,268 0,268 8,1 8,1 0,055	Acute local mg mg	systemic j/l j/l j/kg	Chronic local	systemic 6.22 mg/m 1,49 mg/kg
nhalation Skin SODIUM SALTS OF ALK Predicted no-effect concentra Normal value in fresh water Normal value in marine water Normal value for fresh water s Normal value for marine wate	CONSUMERS Acute local EYLBENZENESUL tion - PNEC sediment r sediment nittent release		Chronic local	0,268 0,268 8,1 8,1	Market local mg mg mg mg mg	systemic y/I y/I y/I y/kg y/kg	Chronic local	systemic 6.22 mg/m 1,49 mg/kg
Skin SODIUM SALTS OF ALK Predicted no-effect concentra Normal value in fresh water Normal value in marine water Normal value for fresh water s Normal value for marine wate Normal value for water, intern Normal value of STP microor	CONSUMERS ACUTE IOCAL EYLBENZENESUL tion - PNEC sediment r sediment nittent release ganisms		Chronic local	0,268 0,268 0,268 8,1 8,1 0,055	mg mg mg mg mg	systemic y/I y/I y/I y/kg y/kg	Chronic local	systemic 6.22 mg/m 1,49 mg/kg
nhalation Skin SODIUM SALTS OF ALK Predicted no-effect concentra Normal value in fresh water Normal value for fresh water s Normal value for marine water Normal value for water, intern Normal value of STP microorg Normal value for the terrestria	consumers Acute local EYLBENZENESUL tion - PNEC sediment r sediment nittent release ganisms al compartment ct level - DNEL / I Effects on	PHONIC ACID	Chronic local	0,268 0,268 8,1 8,1 0,055 5,6	mg mg mg mg mg eg	systemic g/l g/l g/kg g/kg	Chronic local	systemic 6.22 mg/m 1,49 mg/kg
Scholum Salts OF Alk Predicted no-effect concentra Normal value in fresh water Normal value for fresh water shormal value for marine water Normal value for marine water Normal value for marine water Normal value for the terrestria Normal value for the terrestria Health - Derived no-effect	consumers Acute local EYLBENZENESUL tion - PNEC sediment r sediment nittent release ganisms al compartment ct level - DNEL / I	PHONIC ACID	Chronic local Chronic local	0,268 0,268 8,1 8,1 0,055 5,6 35	mg mg mg mg	systemic y/I y/I y/I y/Rg y/Rg y/Rg y/R	Chronic local Chronic local	systemic 6.22 mg/m 1,49 mg/kg bw/d Chronic
Skin SODIUM SALTS OF ALK Predicted no-effect concentra Normal value in fresh water Normal value for fresh water s Normal value for marine water Normal value for marine water Normal value for water, intern Normal value of STP microorg Normal value for the terrestria Health - Derived no-effect Route of exposure	consumers Acute local EYLBENZENESUL tion - PNEC sediment r sediment nittent release ganisms al compartment ct level - DNEL / I Effects on consumers	LPHONIC ACID		0,268 0,268 0,268 8,1 8,1 0,055 5,6 35 Chronic systemic 0,425 mg/kg	mg	systemic		systemic 6.22 mg/m 1,49 mg/kg bw/d
Sodium Salts of Alk Predicted no-effect concentra Normal value in fresh water Normal value in marine water Normal value for fresh water salvormal value for marine water Normal value for water, intern Normal value of STP microorg Normal value for the terrestria Health - Derived no-effect Route of exposure	consumers Acute local EYLBENZENESUL tion - PNEC sediment r sediment nittent release ganisms al compartment ct level - DNEL / I Effects on consumers	LPHONIC ACID		0,268 0,268 0,268 8,1 8,1 0,055 5,6 35	mg	systemic y/I y/I y/I y/Rg y/Rg y/Rg y/R		systemic 6.22 mg/m 1,49 mg/kg bw/d Chronic
Route of exposure Inhalation Skin SODIUM SALTS OF ALK Predicted no-effect concentra Normal value in fresh water Normal value in marine water Normal value for fresh water so Normal value for water, intern Normal value of STP microors Normal value for the terrestria Health - Derived no-effect Route of exposure Oral Inhalation Skin	consumers Acute local EYLBENZENESUL tion - PNEC sediment r sediment nittent release ganisms al compartment ct level - DNEL / I Effects on consumers	LPHONIC ACID		0,268 0,268 8,1 8,1 0,055 5,6 35 Chronic systemic 0,425 mg/kg bw/d	mg	systemic y/I y/I y/I y/Rg y/Rg y/Rg y/R		systemic 6.22 mg/m 1,49 mg/kg bw/d Chronic 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.

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction.

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During the risk assessment process, it is essential to take into consideration the ACGIH occupational exposure levels for inert particulate not otherwise classified (PNOC respirable fraction: 3 mg/m3; PNOC inhalable fraction: 10 mg/m3). For values above these limits, use a P type filter, whose class (1, 2 or 3) must be chosen according to the outcome of risk assessment.

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.

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

Use a type P filtering facemask, whose class (1, 2 or 3) and effective need, must be defined according to the outcome of risk assessment (see standard EN 149).

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 Appearance	Value powder	Information
Colour Odour	white characteristic	Remark:12 (Hazen)
Melting point / freezing point	not available	
Initial boiling point	not available	
Flammability	not available	
Lower explosive limit	not available	
Upper explosive limit	not available	
Flash point	not available	
Auto-ignition temperature	not available	
Decomposition temperature	not available	
pH Kinematic viscosity	11,32 not available	Concentration: 1 %
Dynamic viscosity	ND	
Solubility Partition coefficient: n-octanol/water	soluble in water ND	Remark:> 99% p/p
Vapour pressure	N.A. mmHg	
Density and/or relative density	1,19 g/cm3	

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Relative vapour density ND

Particle characteristics not available

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Oxidizing solids

Oxidizing solids Remark:Non comburente (34.4.1 Test 0.1

Manuale UN)

9.2.2. Other safety characteristics

Evaporation rate ND

Conductivity 15440 μ S/cm (20 °C- 1% p/v)

SECTION 10. Stability and reactivity

10.1. Reactivity

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

SODIUM METASILICATE

The aqueous solutions act as: strong bases. Corrodes: aluminium, zinc, tin, aluminium alloys, zinc alloys, tin alloys.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

The powders are potentially explosive when mixed with air.

SODIUM METASILICATE

Reacts violently with: acids.

10.4. Conditions to avoid

Avoid environmental dust build-up.

SODIUM PERCARBONATE

Sodium percarbonate: exposure to heat and humidity.

10.5. Incompatible materials

SODIUM SALTS OF ALKYLBENZENESULPHONIC ACID

Incompatible with: acids,bases.

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10.6. Hazardous decomposition products

SODIUM PERCARBONATE

Sodium percarbonate: development of oxygen which feeds a fire.

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
Interactive effects
Information not available
ACUTE TOXICITY

ATE (Inhalation) of the mixture: ATE (Oral) of the mixture: Not classified (no significant component)

>2000 mg/kg

ATE (Dermal) of the mixture: Not classified (no significant component)

SODIUM TRIPHOSPHATE PENTABASIC

> 4640 mg/kg Coniglio > 2000 mg/kg Ratto LD50 (Dermal): LD50 (Oral): LC50 (Inhalation mists/powders): > 0,39 mg/l/4h Ratto

SODIUM CARBONATE

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 LD50 (Dermal):
 117 mg/kg Mouse

 LD50 (Oral):
 4090 mg/kg Rat

 LC50 (Inhalation mists/powders):
 2,3 mg/l/2h Rat

SODIUM PERCARBONATE

LD50 (Oral): > 1034 mg/kg ratto

SODIUM METASILICATE

 LD50 (Dermal):
 > 5000 mg/kg

 LD50 (Oral):
 > 1150 mg/kg Ratto

 LC50 (Inhalation mists/powders):
 > 2,06 mg/l

SODIUM SALTS OF ALKYLBENZENESULPHONIC ACID

LD50 (Dermal): > 2000 mg/kg Ratto LD50 (Oral): > 2000 mg/kh ratto

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

Does not meet the classification criteria for this hazard class

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

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STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

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

SODIUM TRIPHOSPHATE PENTABASIC

LC50 - for Fish 1850 mg/l/96h

EC50 - for Crustacea > 100 mg/l/48h Daphnia M.

SODIUM PERCARBONATE

LC50 - for Fish > 70,7 mg/l/96h Pimephales P.

SODIUM SALTS OF

ALKYLBENZENESULPHONIC ACID

LC50 - for Fish > 1 mg/l/96h Cyprinus Carpio EC50 - for Crustacea > 1 mg/l/48h Daphnia m.

EC50 - for Algae / Aquatic Plants > 10 mg/l/72h Desmodesmus subspicatus

SODIUM CARBONATE

 LC50 - for Fish
 > 300 mg/l/96h

 EC50 - for Crustacea
 200 mg/l/48h

SODIUM METASILICATE

LC50 - for Fish > 210 mg/l/96h Brachydanio R.

EC50 - for Crustacea 1700 mg/l/48h

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EC50 - for Algae / Aquatic Plants

> 207 mg/l/72h

12.2. Persistence and degradability

SODIUM SALTS OF ALKYLBENZENESULPHONIC ACID Rapidly degradable SODIÚM CARBONATE

Solubility in water 1000 - 10000 mg/l

Degradability: information not available

The product contains substances that meet the biodegradability requirements prescribed by Reg 648/04/CE.

12.3. Bioaccumulative potential

Information not available

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.

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

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ot applicable		
I.2. UN proper shipping name		
ot applicable		
I.3. Transport hazard class(es)		
, , ,		
ot applicable		
. app.://da.		
I.4. Packing group		
A-r. I doming group		
ot applicable		
т аррисавте		
I.5. Environmental hazards		
.5. Environmental hazards		
A analisahla		
ot applicable		
I.6. Special precautions for user		
ot applicable		
I.7. Maritime transport in bulk according	to IMO instruments	
formation not relevant		
SECTION 15. Regulatory info		

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

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

Seveso Category - Directive 2012/18/EU: None

None

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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)

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.

15.2. Chemical safety assessment

A chemical safety assessment has been performed for the product

SECTION 16. Other information

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

Ox. Liq. 3 Oxidising liquid, category 3

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

Acute Tox. 4 Acute toxicity, category 4

Skin Corr. 1B Skin corrosion, category 1B

Eye Dam. 1 Serious eye damage, category 1

Eye Irrit. 2 Eye irritation, category 2
Skin Irrit. 2 Skin irritation, category 2

STOT SE 3 Specific target organ toxicity - single exposure, category 3

Aquatic Chronic 3 Hazardous to the aquatic environment, chronic toxicity, category 3

H272 May intensify fire; oxidiser.
H290 May be corrosive to metals.
H302 Harmful if swallowed.

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H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage. H319 Causes serious eye irritation.

H315 Causes skin irritation.

H335 May cause respiratory irritation.

H412 Harmful 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
- 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)

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- 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
- 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 / 11 / 12 / 15 / 16.

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APPENDIX: EXPOSURE SCENARIOS - No.1

PHASE: TRANSFER OF THE PROFESSIONAL PRODUCT INTO CONTAINER (BUCKET/MACHINE)

(ref AISE GEIS.8a .1.a.v1)- Open transfer of a concentrated product (with or without diluting); the worker is directly exposed to the product.

OPERATING CONDITIONS

Maximum duration	50 minutes/day
Process conditions	Process performed at room temperature
	Dilute if required with tap water at a maximum
	temperature of 45 °C.
	Local exhaust ventilation (LEV) is not required; generally
	efficient ventilation in the work place is sufficient

RISK MANAGEMENT MEASURES

Conditions and measures concerning personal protective equipment (PPE), health and hygiene evaluation	Use gloves and protective goggles. See sect. 8 for specifications. Staff must be trained appropriately in use
	and maintenance

GENERAL ADVICE

GENERAL ADVICE	
Do not eat, drink, smoke or use live flames	
Wash hands after use. Avoid contact with damaged skin Do not mix with other products	
Leakage instructions	Dilute with water and collect.
Additional advice	Follow the instructions on the label, the technical sheet
	and the SDS in sect. 7.

ENVIRONMENTAL MEASURES: Prevent the non-diluted product from reaching surface water. PRODUCT COMPOSITION PROPERTIES

The classification of the concentrated product can be found on the label and in sect. 2 of the SDS

The product classification is based on the ingredient classification. The list of ingredients contributing to the product classification can be found in sect. 3 of the SDS.

The exposure evaluation is based on the key limit values of the ingredients indicated in sect. 8 of the SDS

The product may contain sensitizing components which may cause an allergic reaction in some people. Sect. 15 of the SDS lists these sensitizing components, where applicable to the product.

USE DESCRIPTORSSU 22: Professional uses

PC 35: Washing and cleaning products (including solvent-based products)

PROC 8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities

ERC 8a: Wide dispersive indoor use of processing aids in open systems

APPENDIX: EXPOSURE SCENARIOS - No. 4

PHASE: USING A PROFESSIONAL PRODUCT IN A SEMI CLOSED SYSTEM (ref AISE GEIS 2.1.a.V1)

Using a product in a machine where the worker could be exposed to the product/vapors

(e.g.: Tunnel washsing)

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OPERATING CONDITIONS

Maximum duration	480 minutes/day
Process conditions	Process performed at room temperature
	Local exhaust ventilation (LEV) is not required; generally
	efficient ventilation in the work place is sufficient

RISK MANAGEMENT MEASURES

Conditions and measures concerning personal protective	Personal protective equipment is not required.
equipment (PPE), health and hygiene evaluation	

GENERAL ADVICE

CENTRAL TECT		
Do not eat, drink, smoke or use live flames		
Wash hands after use. Avoid contact with damaged skin Do not mix with other products	8! *	
Leakage instructions	Dilute with water and collect	
Additional advice	Follow the instructions on the label, the technical sheet and the SDS in sect. 7.	

ENVIRONMENTAL MEASURES: Prevent the non-diluted product from reaching surface water PRODUCT COMPOSITION PROPERTIES

The classification of the concentrated product can be found on the label and in sect. 2 of the SDS

The product classification is based on the ingredient classification. The list of ingredients contributing to the product classification can be found in sect. 3 of the SDS.

The exposure evaluation is based on the key limit values of the ingredients indicated in sect. 8 of the SDS

The product may contain sensitizing components which may cause an allergic reaction in some people. Sect. 15 of the SDS lists these sensitizing components, where applicable to the product.

USE DESCRIPTORS

	CII	22.	Professional	11000
ı	\mathbf{S}	22:	Professional	uses

PC 35: Washing and cleaning products (including solvent-based products)

PROC 2: Use in closed, continuous process with occasional controlled exposure

ERC 8a: Wide dispersive indoor use of processing aids in open systems

APPENDIX: EXPOSURE SCENARIOS - NO. 11

PHASE: USING A PROFESSIONAL PRODUCT FOR IMMERSING/POURING (ref AISE GEIS.13 .1.A.v1) The product is poured on an item, or the item is immersed in the product (e.g. toilet cleaning)

OPERATING CONDITIONS

Maxımum duratıon	50 minutes/day
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Process conditions	Process performed at room temperature
	Dilute if required with tap water at a maximum
	temperature of 45 °C.
	Local exhaust ventilation (LEV) is not required;
	generally efficient ventilation in the work place
	is sufficient

RISK MANAGEMENT MEASURES

Conditions and measures concerning personal protective equipment (PPE), health and hygiene evaluation

Use gloves and protective goggles. See sect. 8 for specifications



Staff must be trained appropriately in use and maintenance

GENERAL ADVICE

GENERAL ADVICE	
Do not eat, drink, smoke or use live flames	
Wash hands after use. Avoid contact with damaged skin Do not mix with other products	8!
Leakage instructions	Dilute with water and collect
Additional advice	Follow the instructions on the label, the technical sheet and the SDS in sect. 7.

ENVIRONMENTAL MEASURES: Prevent the non-diluted product from reaching surface water PRODUCT COMPOSITION PROPERTIES

The classification of the concentrated product can be found on the label and in sect. 2 of the SDS

The product classification is based on the ingredient classification. The list of ingredients contributing to the product classification can be found in sect. 3 of the SDS.

The exposure evaluation is based on the key limit values of the ingredients indicated in sect. 8 of the SDS

The product may contain sensitizing components which may cause an allergic reaction in some people. Sect. 15 of the SDS lists these sensitizing components, where applicable to the product.

USE DESCRIPTORS

SU 22: Professional uses

PC 35: Washing and cleaning products (including solvent-based products)

PROC 13: Treatment of items by immersing or pouring

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APPENDIX: EXPOSURE SCENARIOS - No.1

PHASE: TRANSFER OF THE PROFESSIONAL PRODUCT INTO CONTAINER (BUCKET/MACHINE)

(ref AISE GEIS.8a .1.a.v1)- Open transfer of a concentrated product (with or without diluting); the worker is directly exposed to the product.

OPERATING CONDITIONS

Maximum duration	50 minutes/day		
Process conditions	Process performed at room temperature		
	Dilute if required with tap water at a maximum		
	temperature of 45 °C.		
	Local exhaust ventilation (LEV) is not required; generally		
	efficient ventilation in the work place is sufficient		

RISK MANAGEMENT MEASURES

Conditions and measures concerning personal protective equipment (PPE), health and hygiene evaluation	Use gloves and protective goggles. See sect. 8 for specifications. Staff must be trained appropriately in use		
	and maintenance		

GENERAL ADVICE

Do not eat, drink, smoke or use live flames	
Wash hands after use. Avoid contact with damaged skin Do not mix with other products	Ž! ()
Leakage instructions	Dilute with water and collect.
Additional advice	Follow the instructions on the label, the technical sheet and the SDS in sect. 7.

ENVIRONMENTAL MEASURES: Prevent the non-diluted product from reaching surface water.

PRODUCT COMPOSITION PROPERTIES

The classification of the concentrated product can be found on the label and in sect. 2 of the SDS

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The product may contain sensitizing components which may cause an allergic reaction in some people. Sect. 15 of the SDS lists these sensitizing components, where applicable to the product.

USE DESCRIPTORSSU 22: Professional uses

PC 35: Washing and cleaning products (including solvent-based products)

PROC 8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities

APPENDIX: EXPOSURE SCENARIOS - No. 4

PHASE: USING A PROFESSIONAL PRODUCT IN A SEMI CLOSED SYSTEM (ref AISE GEIS 2.1.a.V1) Using a product in a machine where the worker could be exposed to the product/vapors

(e.g.: Tunnel washsing)
OPERATING CONDITIONS

Maximum duration	480 minutes/day	
Process conditions	Process performed at room temperature	
	Local exhaust ventilation (LEV) is not required; generally	
	efficient ventilation in the work place is sufficient	

RISK MANAGEMENT MEASURES

Conditions and measures concerning personal protective	Personal protective equipment is not required.
equipment (PPE), health and hygiene evaluation	

GENERAL ADVICE

Do not eat, drink, smoke or use live flames	
Wash hands after use. Avoid contact with damaged skin Do not mix with other products	
Leakage instructions	Dilute with water and collect
Additional advice	Follow the instructions on the label, the technical sheet and the SDS in sect. 7.

ENVIRONMENTAL MEASURES: Prevent the non-diluted product from reaching surface water

PRODUCT COMPOSITION PROPERTIES

The classification of the concentrated product can be found on the label and in sect. 2 of the SDS

The product classification is based on the ingredient classification. The list of ingredients contributing to the product classification can be found in sect. 3 of the SDS.

The exposure evaluation is based on the key limit values of the ingredients indicated in sect. 8 of the SDS

The product may contain sensitizing components which may cause an allergic reaction in some people. Sect. 15 of the SDS lists these sensitizing components, where applicable to the product.

USE DESCRIPTORS

SII 22.	Professional uses	
JU 22.	ribicosibilal uses	

PC 35: Washing and cleaning products (including solvent-based products)

PROC 2: Use in closed, continuous process with occasional controlled exposure

APPENDIX: EXPOSURE SCENARIOS - NO. 11

PHASE: USING A PROFESSIONAL PRODUCT FOR IMMERSING/POURING (ref AISE GEIS.13 .1.A.v1) The product is poured on an item, or the item is immersed in the product (e.g. toilet cleaning)

OPERATING CONDITIONS

Maximum duration	50 minutes/day
Process conditions	Process performed at room temperature
	Dilute if required with tap water at a maximum
	temperature of 45 °C.
	Local exhaust ventilation (LEV) is not required;
	generally efficient ventilation in the work place is
	sufficient

RISK MANAGEMENT MEASURES

Conditions and measures concerning personal protective equipment (PPE), health and hygiene	Use gloves and protective goggles. See sect. 8 for specifications		
evaluation	Staff must be trained appropriately in use and		
	maintenance		

GENERAL ADVICE

Do not eat, drink, smoke or use live flames	
Wash hands after use. Avoid contact with damaged skin Do not mix with other products	
Leakage instructions	Dilute with water and collect
Additional advice	Follow the instructions on the label, the technical sheet and the SDS in sect. 7.

ENVIRONMENTAL MEASURES: Prevent the non-diluted product from reaching surface water

PRODUCT COMPOSITION PROPERTIES

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The exposure evaluation is based on the key limit values of the ingredients indicated in sect. 8 of the SDS

The product may contain sensitizing components which may cause an allergic reaction in some people.

Sect. 15 of the SDS lists these sensitizing components, where applicable to the product.

USE DESCRIPTORS

SU 22	· D	rofoc	cion	يا اد	coc
5U 22	: P	rores	sion	aı u	ses

PC 35: Washing and cleaning products (including solvent-based products)

PROC 13: Treatment of items by immersing or pouring