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1. Identification of the substance / preparation and of the company / undertaking

1.1 Identification of the product:

Trade name: **SACCO LAVATRICE Polvere Standard**

1.3 Relevant identified uses of the substance or mixture and uses advised against:

User sectors: Powder detergent for hand washing and machine, cotton and polyester fabrics
Private households (= general public = consumers)[SU21],
Public domain (administration, education, entertainment, services, craftsmen)[SU22]
Uses advised against: Do not use for purposes other than those listed

1.3 Details of the supplier of the safety data sheet Company identification:

Distributor: NEW FADOR S.r.l.
Via M. Calderara 31 - 25018 Montichiari (BS) -Italy
Phone Tel. +39 030 961243 - Fax +39 030 962500
www.newfador.it - info@newfador.it

1.4 Telephone number for emergency:

Phone. + 39 030 961243 (from 8.30 to 17.30 – Monday/Friday)
In paragraph 16 of this data sheet are given the contact details of poison control centers in Italy active 24 hours on 24.

2. Hazard identification

2.1 Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008:

Pictograms:
GHS07

Hazard Class and Category Code(s):
Skin Irrit. 2 , Eye Irrit. 2

Hazard statement Code(s):
H315 - Causes skin irritation
H319 - Causes serious eye irritation.

Adverse physicochemical effects to human health and the environment:
No other hazards.

2.2 Label elements:

Labeling according to Regulation (EC) No 1272/2008:

Pictogram, Signal Word Code(s):
GHS07 - Warning

Hazard statement Code(s):
H315 - Causes skin irritation
H319 - Causes serious eye irritation.


Supplemental Hazard statement Code(s):
Not applicable

Precautionary statements:
General
P102 - Keep out of reach of children.

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

Response
P302 + P352 - IF ON SKIN: Wash thoroughly with soap and water.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
P332 + P313 - If skin irritation occurs: Get medical advice.
P310 - Immediately call a POISON CENTER or physician.
P501 - Dispose of contents / container in accordance with the regulations.



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Contains (Reg. EC 648/2004): 5% <15% oxygen-based bleaches, Zeolites, <5% anionic surfactants, non-ionic surfactants, soap, optical whitener, Perfume.

2.3 Other hazards:

The substance / mixture does NOT contain PBT / vPvB according to Regulation (EC) No. 1907/2006, Annex XIII.

No information on other hazards.

3. Composition / information on ingredients

3.1 Substances:

Irrelevant.

3.2 Mixtures:

Refer to section 16 for the full text of hazard statements.

Substance	Concentration	Classification	Index	CAS	EINECS	REACH
Sodium carbonate	> 15 <= 20%	Eye Irrit. 2, H319		497-19-8	207-838-8	01-2119485498-19
Sodium percarbonate	> 5 <= 7%	Ox. Sol. 3, H272 Eye Irrit. 2, H319	-	15630-89-4	239-707-6	01-2119457268-30
Benzenesulfonic acid, C10-13-alkyl derivs, sodium salt	> 3 <= 5%	Oral Acute Tox. 4, H302 Aquatic Chronic 3, H412 Skin Irrit. 2, H315 Eye Dam. 1, H318	-	68411-30-3	270-115-0	01-2119489428-22
Sodium disilicate granular	> 5 <= 7%	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	-	1344-09-8	215-687-4	01-2119448725-31
Alcohols, C12- C13-branched andlinear, etoxylated	> 1 <= 3%	Oral Acute Tox. 4, H302 Eye Dam. 1, H318 Aquatic Chronic 3, H412	-	160901-19-9	500-457-0	-

4. First aid measure



4.1 Description on first aid measure:

Routes of exposure.

Skin contact:

Immediately wash with water. If symptoms persist, consult your doctor.

Eye contact:

Wash immediately and thoroughly with running water, with eyelids open, for at least 15 minutes; if irritation persists or appears burning consult an ophthalmologist.

Ingestion:

Do not induce vomiting. Seek medical advice immediately and show this safety data sheet. Give anti-foaming agents (Dimethicone). Contact Poison Center.

Inhalation:

Ventilate the area. Immediately remove the patient from the contaminated area and keep it at rest in a well ventilated area. If you feel unwell consult a doctor.

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

Ingestion: nausea, vomiting, diarrhea (with possible hydroelectric imbalances for large quantities are ingested); feeling against throat pain, stomach and abdomen. Possible respiratory failure for foam suction from the airway (especially as a result of vomiting and ingestion of significant quantities).

Eye contact: conjunctivitis / possible eye damage.

Skin Contact: may cause skin irritation.

4.3 Indication of any immediate medical attention and special treatment:

See section 4.1.

5. Fire-fighting measure



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5.1 Extinguishing media:

Recommended extinguishing means:

Water, CO₂, foam, chemical powders, according to the materials involved in the fire.

Extinguishing media to avoid:

Water jets. Use water jets only to cool down surfaces of the containers exposed to fire.

5.2 Special hazards arising from the substance or mixture:

No data available.

5.3 Advice for fire-fighters:

Use protection for the breathing apparatus

Safety helmet and full protective suit.

The spray water can be used to protect the people involved in the extinction

You may also use self-respirator, especially when working in confined and poorly ventilated area and if you use halogenated extinguishers (Halon 1211 fluobrene, Solkan 123, NAF, etc...).

Keep containers cool with water spray.

6. Measures in case of accidental release

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Leave the area surrounding the spill or release. Do not smoke.

Wear mask, gloves and protective clothing.

For emergency responders:

Wear mask, gloves and protective clothing.

Eliminate all unguarded flames and possible sources of ignition. No smoking.

Provide sufficient ventilation.

Evacuate the danger area and, if case, consult an expert.

6.2 Environmental precautions:

Contain spill with earth or sand.

If the product has entered a watercourse in sewers or has contaminated soil or vegetation, notify it to the authorities.

Discharge the remains in compliance with the regulations.

6.3 Methods and materials for containment and cleaning up:

For containment:

Rapidly recover the product, wear a mask and protective clothing

Recover the product for reuse, if possible, or for removal. Possibly absorb it with inert material.

Prevent it from entering the sewer system.

For cleaning up:

After wiping up, wash with water the area and materials involved.

Other information:

None in particular.

6.4 Reference to other sections:

Refer to paragraphs 8 and 13 for further information.

7. Handling and storage

7.1 Precaution for safe handling:

Avoid contact and inhalation of vapors

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


At work do not eat or drink.

See also paragraph 8 below.

7.2 Conditions for safe storage, including any incompatibilities:

Keep in original container closed tightly. Do not store in open or unlabeled containers.

Keep containers upright and safe by avoiding the possibility of falls or collisions.

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Store in a cool place, away from sources of heat and direct exposure of sunlight.

7.3 Specific end uses:

Private households (= general public = consumers):

Store in cool and dry places.

Public domain (administration, education, entertainment, services, craftsmen):

Handle with care.

Store in ventilated place away from heat sources,

Keep the container tightly closed.

8. Exposure controls / personal protection



8.1 Control parameters:

No data available on the mixture.

Related to contained substances:

Sodium percarbonate

Derived no effect level (DNEL)

End use	Route of exposure	Value	Note
Workers	Skin contact (acute effects)	12,8 mg/cm ²	
Workers	Inhalation (system. Effects)	5 mg/m ³	
Consumers	Skin contact (acute effects)	6,4 mg/cm ²	

Predictable No Effect Concentration (PNEC)

PNEC aquatic 35 µg/l (Algae)

Sodium disilicate granular

Derived no effect level (DNEL)

End use	Route of exposure	Value	Note
Workers	In the long term, systemic effects, dermal	1,59 mg/kg	of body weight / day
Workers	In the long term, systemic effects, inhalation	5,61 mg/m ³	
Consumers	In the long term, systemic effects, oral	0,8 mg/kg	of body weight / day
Consumers	In the long term, systemic effects, inhalation	1,38 mg/m ³	
Consumers	In the long term, systemic effects, dermal	0,8 mg/kg	of body weight / day

Predictable No Effect Concentration PNEC)

Environmental Compartment	Value	Note
Fresh water	7,5 mg/l	
Sea water	1 mg/l	
Intermittent, freshwater	7,5 mg/l	
Wastewater treatment	348 mg/l	

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts

Derived no effect level (DNEL)

End use	Route of exposure	Value	Note
Workers	Dermal, acute exposure / short-term - systemic effects	--	Not applicable / not applicable
Workers	Inhalation, acute exposure / short-term - systemic effects	--	Not applicable / not applicable
Workers	Dermal, acute exposure / short-term - local effects	--	Not applicable / not applicable
Workers	Inhalation, acute exposure / short-term - local effects	--	Not applicable / not applicable
Workers	Dermal, long-term exposure - systemic effects	170 mg/kg	In reference to body weight and day
Workers	Inhalation, long-term exposure - systemic effects	12 mg/m ³	
Workers	Dermal, long-term exposure - local effects	--	Not applicable / not applicable
Workers	Inhalation, long-term exposure - local effects	12 mg/m ³	
Consumers	Dermal, acute exposure / short-term - systemic effects	--	Not applicable / not applicable
Consumers	Inhalation, acute exposure / short-term - systemic effects	--	Not applicable / not applicable
Consumers	Oral, acute exposure / short-term - systemic effects	--	Not applicable / not applicable
Consumers	Dermal, acute exposure / short-term - local effects	--	Not applicable / not applicable
Consumers	Inhalation, acute exposure / short-term - local effects	--	Not applicable / not applicable



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Consumers	Dermal, long-term exposure - systemic effects	85 mg/kg	<i>In reference to body weight and day</i>
Consumers	Inhalation, long-term exposure - systemic effects	3 mg/m³	
Consumers	Oral, long-term exposure - systemic effects	0,85 mg/kg	<i>In reference to body weight and day</i>
Consumers	Dermal, long-term exposure - local effects	--	<i>Not applicable / not applicable</i>
Consumers	Inhalation, long-term exposure - local effects	3 mg/m³	

Predictable No Effect Concentration (PNEC)

Environmental Compartment	Value	Note
Fresh water	0,268 mg/l	
Sea water	0,0268 mg/l	
temporary Spill	0,0167 mg/l	
Sewage plant	3,43 mg/l	
Sediment freshwater	8,1 mg/kg	<i>In reference to the dry mass</i>
marine sediment	8,1 mg/kg	<i>In reference to the dry mass</i>
Soil	35 mg/kg	<i>In reference to the dry mass</i>
Food		<i>Not applicable / not applicable</i>

8.2 Exposure controls:

Appropriate engineering controls:

Private households (= general public = consumers):

Open with caution. Close the container immediately after its use.

Adopt the appropriate protective measures.

Public domain (administration, education, entertainment, services, craftsmen):

Open with caution. Close the container immediately after its use.

Adopt the appropriate protective measures.

Individual protection measures:

(a) Eye / face protection

When handling the pure product use safety glasses (spectacles cage) (EN 166).

(b) Skin protection

(i) Hand protection

When handling the pure product use chemical resistant protective gloves (EN 374-1/EN374-2/EN374-3).

(ii) Other

When handling the pure product wear full protective skin clothing (EN 14605).

(c) Respiratory protection

Not needed for normal use.

(d) Thermal hazards

No hazard to report

Environmental exposure controls:

Use according to good working practices to avoid pollution into the environment.

9. Physical and chemical properties

9.1. Information on basic physical and chemical

Physical and chemical properties	Value	Method of determination
Appearance	White powder with blue granules	
Odour	floral note	
Odour threshold	not available	
pH	10.8 +/- 0.3 (20 ° C; sol. 1%)	
Melting point / freezing point	Not applicable	
Initial boiling point and boiling range	not available	
Flash point	not inflammable	ASTM D92
Evaporation rate	irrelevant	
Flammability (solid, gas)	not inflammable	
Upper / lower flammability or explosive limits	not inflammable	
Vapour pressure	not available	
Vapour density	not available	



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Relative density	900 +/- 30 g / l	
Solubility	in water	
Water solubility	full	
Partition coefficient: n-octanol/water	not available	
Auto-ignition temperature	not available	
Decomposition temperature	irrelevant	
Viscosity	irrelevant	
Explosive properties	not explosive	
Oxidizing properties	No oxidant properties	

9.2 Other information

No data available.

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 under conditions of use and storage.

10.3 Possibility of hazardous reactions:

Under normal conditions of use and storage are not prevedibili dangerous reactions.

10.4. Condizioni da evitare:

None in particular. Observe however the usual precautions against chemicals.

10.5. Materiali incompatibili:

No data available.

10.6. Prodotti di decomposizione pericolosi:

When heated or in case of fire can be released vapors potentially dangerous to health.

11. Toxicological information

There is no toxicological data available on the mixture as a whole. Set out below is the toxicological information relating to the main substances in the mixture.

Dangerous effects to health from exposure to the mixture: see sections 2 and 4.


11.1 Information on toxicological effects:

Toxicological information of the mixture:

- a) Acute toxicity: Based on available data the classification criteria are not met.
- b) corrosion / irritation: The product causes skin irritation.
- c) Serious eye damage / eye irritation: The product causes serious eye irritation.
- d) respiratory or skin sensitization: Skin sensitization: input not detected. Respiratory Sensitization: input not detected.
- e) Germ cell mutagenicity: The evaluation of the available data indicates that this product is not 'one mutagenic substance.
- f) Carcinogenicity: The evaluation of the available data indicates that this product is not 'a carcinogen.
- g) Reproductive toxicity: The evaluation of the available data indicates that this product is not 'toxic for reproduction.
- h) specific target organ toxicity (STOT) - single exposure: The evaluation of the available data indicates that this product is not 'classified toxic specific target organ single exposure.
- i) specific target organ toxicity (STOT) - repeated exposure: The evaluation of the available data indicates that this product is not 'classified toxic specific target organ repeated exposure.
- j) aspiration hazard: Based on the physical properties of the product does not represent a danger in case of aspiration.

Related contained substances:

Sodium carbonate CAS: 497-19-8


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Acute oral toxicity (ingestion): LD50, rat = 2800 mg / kg
 Acute inhalation toxicity: LC50, rat = 2300 mg / m³; LC50, rat = 1200 mg / m³
 The inhalation of the product may cause irritation of the mucous membranes of the upper respiratory tract.
 Acute dermal toxicity LD50 =, guinea pig = 800 mg / kg
 Eye irritation: Upon contact with the eyes can cause severe irritation, tearing, redness and visual disturbances. Repeated and prolonged exposure may cause conjunctivitis.

Sodium Percarbonate CAS: 15630-89-4
 LD / LC50 values relevant for classification:
 Oral LD50 2200 mg / kg (female mouse); 2050 mg / kg (male mouse) (Moma et al.)
 1034 mg / kg (rat) (Glaza)
 Dermal LD50:> 2000 mg / kg (rabbit)
 CRM effects: none.

Sodium disilicate granular CAS: 09/08/1344
 Primary irritant effect:
 on the skin: Irritant to skin and mucous membranes.
 on the eye: Strong irritant with the danger of severe eye injury.
 Ingestion: May be harmful if swallowed.
 Inhalation: Harmful if inhaled. May cause respiratory tract irritation.
 Sensitization: No sensitizing effects known.

Benzenesulfonic acid, C10-13-alkyl derivs., Sodium salts CAS: 68411-30-3
 acute toxicity
 Acute oral toxicity
 LD50 Oral Rat:> 2000 mg / kg; OECD Test Guideline 401
 LD50 rat:> 300-2000 mg / kg; OECD Test Guideline 401
 Target Organs: Gastrointestinal Tract
 Sintomi: drowsiness, diarrhea, breathing difficulties.
 Substance to be tested: benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts, ≥ 65%
 Harmful if swallowed.
 LD50 rat:> 2.000 mg / kg; OECD Test Guideline 401
 Target Organs: Gastrointestinal Tract
 Symptoms: drowsiness, diarrhea, breathing difficulties.
 Substance to be tested: benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts, <65%
 Based on available data the classification criteria are not met.
 Acute inhalation toxicity
 The examination is not necessary
 Justification: exposure via negligible or improbable
 Acute dermal toxicity
 LD50 rat:> 2.000 mg / kg; OECD Test Guideline 402
 Symptoms local effects, scab formation.
 Based on the values available to the classification criteria are not met.
 Skin corrosion / irritation
 Skin irritation
 Rabbit: irritating; OECD Test Guideline 404
 It causes skin irritation
 Serious eye damage / eye irritation
 Irritating to eyes
 Rabbit: may cause irreversible eye damage; OECD Test Guideline 405
 It causes serious eye damage.
 respiratory or skin sensitization
 sensitization
 Maximization Test guinea pig: not sensitizing; OECD Test Guideline 406
 Based on available data the classification criteria are not met.
 Germ cell mutagenicity
 Genotoxicity in vitro
 In vitro tests did not show mutagenic effects.
 Genotoxicity in vivo
 In vivo tests did not show mutagenic effects.
 Remarks
 Based on available data the classification criteria are not met.
 Carcinogenicity
 The substance proved to be non-genotoxic, therefore we should not expect a potential carcinogen.
 reproductive toxicity
 rat; Oral; 2 years
 NOAEL (parents): 350 mg / kg (referring to body weight and day)
 NOAEL (F1): 350 mg / kg (in reference to body weight and day)
 NOAEL (F2): 350 mg / kg (in reference to body weight and day)
 Observation Group.
 Toss observation. Reproductive
 Based on available data the classification criteria are not met.

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Teratogenicity

rat; oral; 20 days

NOAEL 300 mg / kg (referring to body weight and day)

NOAEL (pregnant female): 300 mg / kg (referring to body weight and day)

mouse; oral; 20 days

NOAEL 300 mg / kg (referring to body weight and day)

NOAEL (pregnant female): 2 mg / kg (in reference to body weight and day)

Observations - teratogenicity Based on available data the classification criteria are not met.

specific target organ toxicity (STOT) - single exposure

Remarks

The substance or mixture is not classified as a target organ toxicant, single exposure.

specific target organ toxicity (STOT) - repeated exposure

Remarks

The substance or mixture is not classified as a specific target organ toxicant, repeated exposure.

Repeated dose toxicity

rat; oral; 28 days

NOAEL: 125 mg / kg (referring to body weight and day)

NOAEL: 250 mg / kg (referring to body weight and day)

Target Organs: Blood, liver, heart, thymus.

Symptoms: limited increase in body weight, diarrhea

rat; Study on nutrition; 6 months.

NOAEL: 40 mg / kg (referring to body weight and day)

LOAEL: 115 mg / kg (referring to body weight and day)

Target organ: blood, kidney, blind

Symptoms: limited increase body weight, diarrhea.

Rat; drinking water; 9 months.

NOAEL: 85 mg / kg (referring to body weight and day)

LOAEL: 145 mg / kg (referring to body weight and day)

Target organ: blood

Symptoms: limited increase body weight

Danger in case of suction

Aspiration toxicity

Not applicable

Toxicological information

It is assumed that the substance is bioavailable oral intake.

the substance is metabolized and eliminated for secretion.

the substance is not absorbed well through the skin.

Alcohols, C12-13-branched and linear, ethoxylated CAS: 160901-19-9

acute toxicity

Acute oral toxicity

Alcohols, C12-13- branched and linear, ethoxylated (> 5 - <15 EO): rat LD50:> 300 - 2.000 mg / kg; group observation. test values / bibliographic own values.

Harmful if swallowed

Acute inhalation toxicity

Alcohols, C12-13- branched and linear, ethoxylated (> 5 - <15 EO): no data available

Acute dermal toxicity

Alcohols, C12-13- branched and linear, ethoxylated (> 5 - <15 EO): LD50 rabbit:> 2.000 mg / kg; group observation (literature value)

Based on available data the classification criteria are not met.

Skin corrosion / irritation

Skin irritation

Alcohols, C12-13- branched and linear, ethoxylated (> 5 - <15 EO): rabbit: non-irritant.

Serious eye damage / eye irritation

Irritating to eyes

Alcohols, C12-13- branched and linear, ethoxylated (> 5 - <15 EO): rabbit: irreversible effects on the eye.

It causes serious eye damage.

respiratory or skin sensitization

sensitization

Alcohols, C12-13- branched and linear, ethoxylated (> 5 - <15 EO): Maximization Test guinea pig: not sensitizing.

Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity in vitro

Alcohols, C12-13- branched and linear, ethoxylated (> 5 - <15 EO): In vitro tests did not show mutagenic effects.

Genotoxicity in vivo


Alcohols, C12-13- branched and linear, ethoxylated (> 5 - <15 EO): In vivo tests did not show mutagenic effects.

Carcinogenicity

Alcohols, C12-13- branched and linear, ethoxylated (> 5 - <15 EO): The substance proved to be non-genotoxic, therefore we should not expect a potential carcinogen.

reproductive toxicity

Alcohols, C12-13- branched and linear, ethoxylated (> 5 - <15 EO): Toxicity Study for the two-generation reproductive: rat NOAEL ((parents))> 250 mg / kg (referring to body weight and day) NOAEL (F1)> 250 mg / kg (in reference to body weight and day) NOAEL (F2)> 250 mg / kg (in reference to body weight and day) of observation group (literature value).

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Reproductive toxicity Remarks

Alcohols, C12-13- branched and linear, ethoxylated (> 5 - <15 EO): Based on available data the classification criteria are not met.

Teratogenicity

Alcohols, C12-13- branched and linear, ethoxylated (> 5 - <15 EO): rat; Oral NOAEL:> 50 mg / kg (in reference to body weight and day) NOAEL (pregnant female): 50 mg / kg (in reference to body weight and day); toxicity study for the two-generation reproductive; group observation (literature value).

Alcohols, C12-13- branched and linear, ethoxylated (> 5 - <15 EO): rat; Dermal NOAEL:> 250 mg / kg (referring to body weight and day) NOAEL (pregnant female): 250 mg / kg (referring to body weight and day); toxicity study for the two-generation reproductive group observation; (Literature value).

Observations - Teratogenicity

Based on available data the classification criteria are not met.

specific target organ toxicity (STOT) - single exposure

Alcohols, C12-13- branched and linear, ethoxylated (> 5 - <15 EO): The substance or mixture is not classified as a target organ toxicant, single exposure.

specific target organ toxicity (STOT) - repeated exposure

Alcohols, C12-13- branched and linear, ethoxylated (> 5 - <15 EO): The substance or mixture is not classified as a specific target organ toxicant, repeated exposure.

Repeated dose toxicity

Alcohols, C12-13- branched and linear, ethoxylated (> 5 - <15 EO): rat; Oral; 2 years. NOAEL: 50 mg / kg (in reference to body weight and day)

Target Organs: Heart, Liver, Kidney. Symptoms: limited increase in body weight, increased relative weights of organs. group observation (literature value)

Danger in case of suction

Aspiration toxicity

Alcohols, C12-13- branched and linear, ethoxylated (> 5 - <15 EO): not applicable.

Toxicological information

Alcohols, C12-13- branched and linear, ethoxylated (> 5 - <15 EO): Toxicokinetics - group observation

It is assumed that the substance would be rapidly absorbed and eliminated.

12. Ecological Information

12.1 Toxicity:

The product has not been tested for environmental impact in the event of accidental release in the environment.

Related to contained substances:

Sodium carbonate CAS: 497-19-8

Aquatic toxicity:

Fish *Lepomis macrochirus*, LC50 / 96h, 300 mg / l

Ceriodaphnia dubia-Crustaceans, EC50 / 48h, 200-227 mg / l

Sodium Percarbonate CAS: 15630-89-4

Aquatic toxicity:

EC50 / 48h 4.9 mg / l (*Daphnia pulex*)

LC50 / 96h 70.7 mg / l (fathead minnows)

NOEC / 48h 2 mg / l (*Daphnia pulex*)

NOEC / 96h 7.4 mg / l (fathead minnows)

Sodium disilicate granular CAS: 09/08/1344

Environment Water - Invertebrate Species

Short-term toxicity: Species *Daphnia magna* - EC 50 (48h): 1700 mg / l.

Long term toxicity: NA - Annex IX, column 2 9.1 1907/2006 - REACH Regulation.

Environment Water - Algae and aquatic plants.

EC50 (72 h, biomass - *Scenedesmus subspicatus*): 207 mg / l

EC50 (72 h, growth rate - *Scenedesmus subspicatus*):> 345.4 mg / l

Benzenesulfonic acid, C10-13-alkyl derivs., Sodium salts CAS: 68411-30-3

Fish toxicity: LC50 (96 h) *Cyprinus carpio*:> 1-10 mg / l; Semi-static test; OECD Test Guideline 203.

LC50 (96 h) *Lepomis macrochirus*:> 1-10 mg / l; Static test; US EPA 1975; literature values.

Fish toxicity - chronic toxicity: NOEC (196 d) fathead minnows:> 0,1 - 1 mg / l; mortality; continuous flow test (literature value). The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).

Toxicity to daphnia: EC50 (48 h) *Daphnia magna*:> 1-10 mg / l; Static test; OECD Test Guideline 202 (literature value).

Toxicity to daphnia and other aquatic invertebrates - chronic toxicity: NOEC (21 d):> 1.10 mg / l; reproduction rate. Through test rate.

Toxicity to algae: EC50 (72 h) *Desmodesmus subspicatus* (green algae):> 10-100 mg / l; Semi-static test; OECD TG 201; test values / bibliographic own values.


Toxicity to bacteria: EC10 (16 h) *Pseudomonas putida*: 51 mg / l; Test of chromosomal multiplication inhibition; Bringmann & Kühn.

Toxicity to soil dwelling organisms: LC50 (14 d) *Eisenia fetid*:> 1000 mg / kg; OECD Test Guideline 207.

Toxicity in terrestrial plants: emergency, growth; EC50 (21 d): 167 mg / kg; *Sorghum bicolor*; OECD TG 208 (literature value).

Alcohols, C12-13- branched and linear, ethoxylated CAS: 160901-19-9

Toxicity to fish

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Alcohols, C12-13- branched and linear, ethoxylated (> 5 - <15 EO): LC50 (96 h) Cyprinus carpio (Carp):> 1 - 10 mg / l; Try continuous flow; OECD Test Guideline 203

Fish toxicity - Chronic toxicity

Alcohols, C12-13- branched and linear, ethoxylated (> 5 - <15 EO): EC10 Pimephales promelas (fathead minnow): 0.21 mg / l; mortality; group observation.

Toxicity to daphnia and other aquatic invertebrates

Alcohols, C12-13- branched and linear, ethoxylated (> 5 - <15 EO): EC50 (48 h) Daphnia magna (water flea):> 1 - 10 mg / l; Static test; OECD Test Guideline 202

Toxicity to daphnia and other aquatic invertebrates - Chronic

Alcohols, C12-13- branched and linear, ethoxylated (> 5 - <15 EO): EC10 Daphnia magna (Water flea): 0.36 mg / l; Playback Test, OECD TG211

Toxicity to aquatic plants

Alcohols, C12-13- branched and linear, ethoxylated (> 5 - <15 EO): EC50 (72 h) Desmodesmus subspicatus (green algae):> 1 - 10 mg / l; Static test; OECD TG 201

Toxicity to bacteria

Alcohols, C12-13- branched and linear, ethoxylated (> 5 - <15 EO): EC50 activated sludge: 140 mg / l; Inhibitor breathing group observation.

Toxicity in terrestrial plants

Alcohols, C12-13- branched and linear, ethoxylated (> 5 - <15 EO): emergency, growth; NOEC: 10 mg / kg; Garden cress (cress); OECD Test Guideline 208.

Toxicity in other terrestrial mammals do not

Alcohols, C12-13- branched and linear, ethoxylated (> 5 - <15 EO): study scientifically unjustified. Justification: Readily biodegradable.

Use according to good working practices to avoid pollution into the environment.

12.2 Persistence and degradability:

No data available.

12.3 Bioaccumulative potential:

No data available.

12.4 Mobility in soil:

No data available.

12.5 Results of PBT and vPvB assessment:

The substance / mixture does NOT contain PBT / vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

12.6 Other adverse effects:

No adverse effects.

Regulation (EC) No 2006/907 - 2004/648

The surfactant (s) contain (s) in this formulation comply (ies) with the criteria set out in Regulation (EC) biodegradability/648/2004 on detergents. All supporting data shall be kept at the disposal of the competent authorities of the Member States and will be provided, at their explicit request or at the request of a manufacturer of the formulation, the above authority.

13. Disposal considerations

13.1 Methods of waste treatment:

Do not reuse empty containers. Dispose of them in accordance with the regulations in force. Any remaining product should be disposed of according to applicable regulations by addressing to authorized companies.

Recover if possible. Operate according to local or national regulations.

14. Transport information




14.1 UN number:

Not included in the scope of application regulations concerning the transport of dangerous goods: by road (ADR); by rail (RID); by air (ICAO / IATA); by sea (IMDG).

14.2 UN proper shipping name:

No one.

14.3 Classes of transport hazard:

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No one.

14.4 Packing group:

No one.

14.5 Environmental hazards:

No one.

14.6 Special precautions for user:

No data available.

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

It is not intended to carry bulk.

15. Regulatory information

Seveso category: No

Restrictions relating to the product or contained substances pursuant to Annex XVII to Regulation (EC) 1907/2006: No

Substances in Candidate List (Art. 59 REACH): No

Substances subject to authorization (Annex XIV REACH): No

LAW AND GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 of the European Parliament (REACH), as amended by 2015/830 / EU
2. Regulation (EC) 1272/2008 of the European Parliament (CLP)
3. Regulation (EC) 830/2015 of the European Parliament
4. The Merck Index Ed. 10
5. Handling Chemical Safety
6. Niosh - Registry of Toxic Effects of Chemical Substances
7. INRS - Fiche Toxicologique
8. Patty - Industrial Hygiene and Toxicology
9. N.I. Sax - Dangerous properties of Industrial Materials - 7 Ed., 1989

Health checks: Workers exposed to this chemical health product must undergo health checks according to the Arctic provisions. 41 of Legislative Decree no. 81 of April 9, 2008 unless the risk for the safety and health of the worker is evaluated irrelevant, according to art. 224 paragraph 2.

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

Reg. 648/2004/EC (detergents), Decree 2/2/2002 n. 25 (risks related to chemical agents at work). D.m. 2/26/2004 Work (occupational exposure limits); D.m. 4/3/2007 (implementation of Directive 2006/8/EC). Regulation (EC) No 1907/2006 (REACH) Regulation (EC) no 1272/2008 (CLP), Regulation (EC) no 790/2009, 2012/18/EU Directive (cd. Seveso III).

15.2 Chemical safety assessment:

No chemical safety assessment was carried out by the supplier.

16. Other information

Description of the hazard statements exposed to point 3

H272 May intensify fire; oxidiser.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

If necessary, there are the telephone numbers are active 24 hours 24 some poison control centers:

Responsabile	Ospedale	Città	Indirizzo	CAP	Telefono
Marco Marano	CAV "Osp. Pediatrico Bambino Gesù"	Roma	Piazza Sant'Onofrio, 4	00165	06 68593726
Anna Lepore	Az. Osp. Univ. Foggia	Foggia	V.le Luigi Pinto, 1	71122	0881-732326
Gennaro Savoia	Az. Osp. "A. Cardarelli"	Napoli	Via A. Cardarelli, 9	80131	081-7472870
M. Caterina Grassi	CAV Policlinico "Umberto I"	Roma	V.le del Policlinico, 155	00161	06-49978000



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Alessandro Barelli	CAV Policlinico "A. Gemelli"	Roma	Largo Agostino Gemelli, 8	00168	06-3054343
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Franca Davanzo	Osp. Niguarda Ca' Granda	Milano	Piazza Ospedale Maggiore, 3	20162	02-66101029
M. Luisa Farina	Azienda Ospedaliera Papa Giovanni XXII	Bergamo	Piazza OMS, 1	24127	800883300

This MSDS cancels and replaces any preceding release.