

MATERIAL SAFETY DATA SHEET

In conformity to Regulation (EC) No 453/2010 of 20 May 2010

Printed: 03/07/15

Rev. Nr. 01-c 09/09/14

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

Trade name: **SANOMAT HYGIENE**
Use: Disinfecting washing powder
Uses advised against: All uses not specifically listed on the label on the product packaging.
Company: Rösch Austria GmbH, Goethestrasse 5, 6850 Dornbirn
info@roesch-hoechst.at
Emergency Phone Numbers: 0043 5572 377 000
0041 78 898 8953

2. HAZARDS IDENTIFICATION

2.1. Classification of the mixture

EC regulation criteria 1272/2008 (CLP):

 **Warning, Eye Irrit. 2, Causes serious eye irritation.**

Directive criteria, 67/548/CE, 99/45/EC and following amendments thereof: see section 16.

2.2. Label elements

EC regulation criteria 1272/2008 (CLP):

SYMBOLS



GHS07 - **Warning**

Hazard statements:

H319 Causes serious eye irritation.

Precautionary statements:

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

P102 - Keep out of reach of children.

Response

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

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

Classification made with the help of DetNet.

2.3. Other hazards

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

No information on other hazards

MATERIAL SAFETY DATA SHEET

In conformity to Regulation (EC) No 453/2010 of 20 May 2010

Printed: 03/07/15

Rev. Nr. 01-c 09/09/14

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

N.A.


3.2 Mixtures

Hazardous components within the meaning of EEC directive 67/548 and CLP Regulation and corresponding classification:

20% - 30% **Sodium carbonate**

REACH No.: 01-2119485498-19 CAS: 497-19-8 EC: 207-838-8


Xi; R36

 3.3/2 Eye Irrit. 2 H319


10% - 20% **Sodium percarbonate**

REACH No.: 01-2119457268-30 CAS:15630-89-4 EC: 239-707-6

O; R8 Xn; R22 Xi; R41

 2.14/3 Ox. Sol. 3 H272


 3.1/4/Oral Acute Tox. 4 H302


 3.3/1 Eye Dam. 1 H318


1% - 5% **Sodium disilicate**

REACH No.: 01-2119448725-31 CAS: 1344-09-8 EC: 215-687-4

Xi; R37/38 Xi; R41

 3.3/1 Eye Dam. 1, H318


 3.8/3 STOT SE 3 H335


 3.2/2 Skin Irrit. 2 H315


1% - 5% **Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts**

REACH No.: 01-2119489428-22 CAS: 68411-30-3 EC: 270-115-0

Xn; R22 Xi; R38 Xi; R41

 3.1/4/Oral Acute Tox. 4 H302


 3.2/2 Skin Irrit. 2 H315


 3.3/1 Eye Dam. 1 H318

1% - 5% **Alcohols, C12-13-branched andlinear, ethoxylated (>5 - 10 EO)**

REACH No.: Nicht relevant (Polymer) CAS: 160901-19-9 EC: 931-954-4

Xn; R22 Xi; R41

 3.1/4/Oral Acute Tox. 4 H302

 3.3/1 Eye Dam. 1 H318

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

4. FIRST AID MEASURES

4.1. Descriptions of first aid measures.

In case of skin contact:

Wash thoroughly with soap and running water.

In case of eye contact:

Wash immediately and thoroughly with running water, keeping eyelids open for at least 10 minutes, then protect your eyes with a dry sterile gauze. Seek medical advice immediately.

MATERIAL SAFETY DATA SHEET

In conformity to Regulation (EC) No 453/2010 of 20 May 2010

Printed: 03/07/15

Rev. Nr. 01-c 09/09/14

In case of ingestion:

Do not induce vomiting. Seek medical advice immediately, showing the safety data sheet. Contact a poison control center.

In case of inhalation:

Ventilate the area. Immediately remove the patient from the contaminated premises and make him rest in a well ventilated area. If you feel unwell seek medical advice.

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

No data available.

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

If you experience harmful symptoms, contact a physician immediately.

5. FIRE-FIGHTING MEASURES

Product is not flammable.

5.1. Extinguishing media.

Suitable extinguishing media:

Water spray, CO₂, foam, dry chemical, depending on the materials involved in the fire.

Extinguishing media which must not be used for safety reasons:

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

5.2. Special hazards arising from the substance or mixture.

Avoid breathing products of combustion.

5.3. Advice for fire-fighters.

General Information

Use suitable breathing apparatus. Collect extinguishing water. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

Equipment

Hardhat with visor, fireproof clothing, work gloves (fireproof, cut proof and dielectric), mask with facemask covering the whole of the face or breathing apparatus in case of large amount of smoke.

Safety helmet and full protective suit.

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

You may also use selfrespirator, 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. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures.

6.1.1 For non-emergency personnel:

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

Wear mask, gloves and protective clothing.

6.1.2 For emergency responders:

Wear mask, gloves and protective clothing.

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

Provision of sufficient ventilation.

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

6.2. Environmental precautions.

Contain spill

MATERIAL SAFETY DATA SHEET

In conformity to Regulation (EC) No 453/2010 of 20 May 2010

Printed: 03/07/15

Rev. Nr. 01-c 09/09/14

Inform the competent authorities.
Discharge the remains in compliance with the regulations

6.3. Methods and material for containment and cleaning up.

Confine using earth or inert material. Collect as much material as possible and eliminate the rest using jets of water. Disposal of contaminated material must be done in accordance with the provisions of section 13.

6.4. Reference to other sections.

Any information on personal protection and disposal is given in sections 8 and 13.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling.

Store in closed, labeled containers. Avoid contact with eyes and skin. When using do not eat or drink. Provide accurate ventilation / exhaustion at the workplace. 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. Keep away from combustible materials. Store in a cool place, away from sources of heat and `direct exposure of sunlight. Avoid moisture.

7.3. Specific end use(s).

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 carbonate

EXPOSURE LIMIT VALUES

sodium carbonate

SAEL (Solvay Acceptable Exposure Limit) 2007

TWA = 10 mg/m³

U.S.. ACGIH Threshold Limit Values

Sodium percarbonate (or Sodium peroxyhydrate)

DNEL: End-use: Workers

Route of Exposure: Skin

Potential health consequences: May cause irritation to eyes and skin.

Value: 12.8 mg / cm²

Acute, local effects

DNEL: End-use: Workers

MATERIAL SAFETY DATA SHEET

In conformity to Regulation (EC) No 453/2010 of 20 May 2010

Printed: 03/07/15

Rev. Nr. 01-c 09/09/14

Route of Exposure: Inhalation
Value: 5 mg / m³
In the long term, local effects
DNEL: End-Use: Using Consumer
Route of Exposure: Skin
Potential health consequences: May cause irritation to eyes and skin.
Value: 6.4 mg / cm²
Acute, local effects
PNEC: Fresh Water
Value: 0.035 mg / l
PNEC: Seawater
Value: 0.035 mg / l
PNEC: Using Batch / release
Value: 0.035 mg / l
PNEC STP
Value: 16.24 mg / l

Silicic acid, sodium salt

DN (M) for workers
chronic systemic effects, contact skin/eyes, DNELS 1.59 (mg/kg bw/day), toxic for continuous dosing
chronic systemic effects, inhalation, DNELS 5.61 (mg/m), toxic for continuous dosing
DN (M) for the consumer
chronic systemic effects, contact skin/eyes, DNELS 0.8 (mg/kg bw/day), toxic for continuous dosing
chronic systemic effects, inhalation, 1.38 DNEL (mg/m), toxic for continuous dosing
chronic systemic effects, ingesting, DNELS 0.8 (mg/kg bw/day), toxic for continuous dosing
PNEC descriptors:
Aquatic freshwater PNEC-7.5 mg/l
Aquatic-acqua marina PNEC 1 mg/l
Aquatic-discontinuous PNEC release 7.5 mg/l
PNEC sewage treatment plant 348 mg/l

Benzensulfonic acid, C10-13 Alkyl derivs., sodium salts

Benzenesulfonic acid, C10-13-alkyl derivs., Sodium salts
Workers, Dermal, Acute exposure / short term - Systemic effect: N/A / N/A
Workers, Inhalation, Acute exposure / short term - Systemic effect: N/A / N/A
Workers, Dermal, Acute exposure / short term - Local effects: N/A / N/A
Workers, Inhalation, Acute exposure / short term - Local effects: N/A / N/A
Workers, Dermal, Exposure to long-term - a whole: 170 mg / kg in reference to body weight and day
Workers, inhalation, Long-term exposure - Systemic effect: 12 mg/m³
Workers, Dermal, Exposure to long-term - Local effects: N/A / N/A
Workers, inhalation, Long-term exposure - Local effects: 12 mg/m³
Consumers, Dermal, Exposure Acute / short-term - Systemic effect: N/A / N/A
Consumers, Inhalation, Acute exposure / short term - Systemic effect: N/A / N/A
Consumers, Oral Exposure Acute / short-term - Systemic effect: N/A / N/A
Consumers, Dermal, Exposure Acute / short-term - Local effects: N/A / N/A
Consumers, Inhalation, Acute exposure / short term - Local effects: N/A / N/A
Consumers, Dermal, Exposure to long-term - Systemic effects: 85 mg / kg in reference to body weight and day
Consumers, Inhalation, Long-term exposure - Systemic effects: 3 mg/m³
Consumers, Oral, Long-term exposure - systemic effects: 0.85 mg / kg in reference to body weight and day
Consumers, Dermal, Exposure to long-term - Local effects: N/A / N/A
Consumers, Inhalation, Long-term exposure - Local effects: 3 mg/m³

MATERIAL SAFETY DATA SHEET

In conformity to Regulation (EC) No 453/2010 of 20 May 2010

Printed: 03/07/15

Rev. Nr. 01-c 09/09/14

The predicted no effect concentrations (PNEC)
Benzenesulfonic acid, C10-13-alkyl derivs., Sodium salts
Fresh water: 0.268 mg / l
Sea Water: 0.0268 mg / l
Temporary escape: 0.0167 mg / l
Treatment plant: 3.43 mg / l
Sediment of fresh water: 8.1 mg / kg in reference to the dry mass
Marine sediment: 8.1 mg / kg in reference to the dry mass
Soil: 35 mg / kg in reference to the dry mass
Food: N/A / N/A

Alcohols, C12-13- branched and linear, ethoxylated (>5 - 10 EO)

No data available

8.2. Control parameters.

Private households (= general public = consumers) / Public domain (administration, education, entertainment, services, craftsmen):

Open with caution. Close the container immediately after use.
Adopt 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 : Not needed for normal use.

(ii) Other: Wear normal work clothing.

(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 properties

Appearance	White powder
Odor	Flowery note
PH value (solution 1%)	10.8 +/- 0.5
Water solubility (at 20°C)	Miscible

9.2. Other information

VOC: 0%

MATERIAL SAFETY DATA SHEET

In conformity to Regulation (EC) No 453/2010 of 20 May 2010

Printed: 03/07/15

Rev. Nr. 01-c 09/09/14

10. STABILITY AND REACTIVITY

10.1. Reactivity.

Related to contained substances:

- Sodium carbonate : Decomposes by reaction with strong acids.
- Sodium percarbonate : Stable under recommended storage conditions.
- Silicic acid, sodium salt : May react with metals. Potential for exothermic reactions in the presence of acids and/or other incompatible materials. Reacts with acids with heat release. May react with amphoteric metal with hydrogen development.

10.2 Chemical stability.

No hazardous reaction when handled and stored according to provisions.

10.3 Possibility of hazardous reactions.

Under conditions of normal use and storage, hazardous reactions are not expected.

10.4 Conditions to avoid.

None in particular. Follow the usual precautions against chemical products.

10.5 Incompatible materials.

Information not available.

10.6 Hazardous decompositions products.

In the event of fire may release gases and vapors which are dangerous to health.

11. TOXICOLOGICAL INFORMATION

There is no toxicological data available on the mixture.

11.1. Information on toxicological effects.

- (a) acute toxicity: :
- (b) skin corrosion/irritation: N/A
- (c) serious eye damage/irritation: If brought into contact with eyes, the product, causes significant irritations which may last for more than 24 hours.
- (d) respiratory or skin sensitization: N/A
- (e) germ cell mutagenicity: N/A
- (f) carcinogenicity: N/A
- (g) reproductive toxicity: N/A
- (h) specific target organ toxicity (STOT) single exposure: N/A
- (i) specific target organ toxicity (STOT) repeated exposure: N/A
- (j) aspiration hazard: N/A

Related to contained substances:

Sodium carbonate

ACUTE TOXICITY

ACUTE TOXICITY ORAL: LD50 rat > 2,800 mg / kg

ACUTE INHALATION TOXICITY: LC50, 2 h - guinea pig - 0.8 mg / L

CL50, 2h - mouse - 1.2 mg / L

CL50, 2h - rat - 2.3 mg / L

ACUTE DERMAL TOXICITY : LD50, rabbit, 2,000 mg / kg

CORROSION / HITTITES SKIN: rabbit, no reaction of the skin.

Human experience, no skin irritation.

MATERIAL SAFETY DATA SHEET

In conformity to Regulation (EC) No 453/2010 of 20 May 2010

Printed: 03/07/15

Rev. Nr. 01-c 09/09/14

SERIOUS EYE DAMAGE / SERIOUS EYE IRRITATION: Rabbit, irritant effects.
SKIN OR RESPIRATORY SENSITIZATION: No data available.
MUTAGENICITY: No effect.
CARCINOGENICITY: No data available.
REPRODUCTIVE TOXICITY: Oral (with power probe), 10 days, the various species, 179 mg / kg.
No teratogenic effects in animal experiments.
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE: No data available.
LD50 (rat) Oral (mg/kg body weight) = 2800
LD50 Dermal (rat or rabbit) (mg/kg body weight) = 2000

Sodium percarbonate / Sodium carbonate peroxyhydrate

Acute toxicity

Remark: Harmful if swallowed.

Sodium Percarbonate:

DL50/Oral/rat: 1,034 mg / kg

CL50/Inhalation/mice: 1.2 mg / l

Remark: sodium carbonate

LC50 / inhalation / 4 h / rat:> 0.17 mg / l

Remark: HYDROGEN PEROXIDE IN AQUEOUS SOLUTION

DL50/ Dermal /rabbits:> 2,000 mg / kg

Irritation and corrosion

Skin: Mild skin irritation

Comments: May cause skin irritation in susceptible persons. Prolonged or repeated exposure can dry out the skin and cause irritation. Prolonged contact with skin may damage and produce dermatitis.

Eyes: Irritating

Risk of serious damage to eyes.

mucous:

Comments: May cause irritation to mucous membranes. Nosebleeds sensitization

guinea pig / OECD Test Guideline 406: Not a sensitizer.

Long-term toxicity

carcinogenicity

IARC: It is assumed that it is not carcinogenic.

More information

Remarks: Ingestion can cause nausea, vomiting, sore throat, stomach and can lead eventually to bowel perforation.

LD50 (rat) Oral (mg/kg body weight) = 1034

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 2000

CL50 Inhalation (rat) vapour/dust/mist/fume (mg/l/4h) or gas (ppmV/4h) = 0,17

Silicic acid, sodium salt

Acute toxic

ingestion, LD50 3400 mg/kg bw, rat

inhalation LC50 > 2.06 g/m³, rat

skin/eye contact, LD50 > 5000 mg/kg bw, rat

Toxic for reproduction:

effects on fertility, NOAEL > 159 mg/kg bw/d, rat

development of damage to the fetus, NOAEL > 200 mg/kg bw/d, mouse

STOT repeated exposure

ingestion, NOAEL > 159 mg/kg bw/d, rat

MATERIAL SAFETY DATA SHEET

In conformity to Regulation (EC) No 453/2010 of 20 May 2010

Printed: 03/07/15

Rev. Nr. 01-c 09/09/14

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

Acute toxicity

Acute oral toxicity

LD50 oral rat:> 2,000 mg / kg; OECD Test Guideline 401

benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:

LD50 rat:> 300 to 2,000 mg / kg; OECD Test Guideline 401

Target Organs: Gastrointestinal tract

Symptoms: Drowsiness, diarrhea, difficulty breathing

Substance to be tested: benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts, >=65%. Harmful if swallowed.

benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:

LD50 rat:> 2,000 mg / kg; OECD Test Guideline 401

Target Organs: Gastrointestinal tract

Symptoms: Drowsiness, diarrhea, difficulty breathing

Substance to be tested: benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts, <65%

According to data available to the classification criteria are not met.

Acute toxicity by inhalation benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:

the test does not need justification: negligible or unlikely routes of exposure

Acute dermal toxicity benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:

LD50 rat:> 2,000 mg / kg; OECD Test Guideline 402

Symptoms: Local effects, crust formation (literature value)

According to available data the classification criteria are not met.

Skin corrosion / irritation S

skin irritation benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:

rabbit: irritating OECD Test Guideline 404

(literature value)

Causes skin irritation.

Serious eye damage / serious eye irritation

Irritating to eyes

benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:

Rabbit: May cause irreversible eye damage.; OECD Test Guideline 405

(Value of literature)

Causes severe eye injury.

Respiratory or skin sensitization

Sensitization

benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:

Maximisation test guinea pig: not sensitizing; OECD Test Guideline 406

Based on the available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity in vitro

benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:

In vitro assays revealed no mutagenic effects

(Value of literature)

In vivo genotoxicity

benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:

In vivo studies revealed no mutagenic effects

(Value of literature)

Observations

benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:

Based on the available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity

benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:

MATERIAL SAFETY DATA SHEET

In conformity to Regulation (EC) No 453/2010 of 20 May 2010

Printed: 03/07/15

Rev. Nr. 01-c 09/09/14

The substance turned out to be non-genotoxic, so we should not expect a carcinogenic potential.

Reproductive Toxicity

Reproductive Toxicity

benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:

Rat, oral, 2 years

NOAEL ((parent)): 350 mg / kg (in reference 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)

(Value of literature)

observation of group

Observation of reproductive toxicity

benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:

Based on the available data the classification criteria are not met.

Teratogenicity

benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:

Rat, oral, 20 days

NOAEL: 300 mg / kg (in reference to body weight and day)

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

(Value of literature)

benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:

mice, oral, 20 days

NOAEL: 300 mg / kg (in reference to body weight and day)

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

(Value of literature)

Observations-Teratogenicity

benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:

According to data available the classification criteria are not met.

Specific target organ toxicity (STOT) - single exposure

Observations

benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:

The substance or mixture is not classified as an organ toxicant target for single exposure.

Specific target organ toxicity (STOT) - repeated exposure

Observations

benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:

The substance or mixture is not classified as a target organ toxicant

Specifically, repeated exposure.

Repeated dose toxicity

benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:

Rat, oral, 28 days

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

LOAEL: 250 mg / kg (in reference to body weight and day)

Target organs: blood, liver, heart, thymus

Symptoms: limited increase in body weight, diarrhea

(Value of literature)

benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:

rat feeding study, 6 months

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

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

Target Organs: Blood, Kidney, blind

Symptoms: limited increase in body weight, diarrhea

(Value of literature)

benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:

rat drinking water; 9 months

MATERIAL SAFETY DATA SHEET

In conformity to Regulation (EC) No 453/2010 of 20 May 2010

Printed: 03/07/15

Rev. Nr. 01-c 09/09/14

NOAEL: 85 mg / kg (in reference to body weight and day)
LOAEL: 145 mg / kg (in reference to body weight and day)
Target Organs: Blood
Symptoms: limited increase in body weight
Aspiration hazard
Aspiration toxicity
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:
not applicable
Toxicological information
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:
Toxicokinetics
it is assumed that the substance is bioavailable for oral intake.
the substance is metabolized and eliminated secretion
the substance is not well absorbed through the skin
LD50 (rat) Oral (mg/kg body weight) = 2000
CL50 Inhalation (rat) vapour/dust/mist/fume (mg/l/4h) or gas (ppmV/4h) = 2000

Alcohols, C12-13- branched and linear, ethoxylated (>5 - 10 EO)

Acute oral toxicity:
LD50 rat: > 300-2,000 mg/kg
Group observation
Test values/own bibliographic values
Harmful if swallowed.
Acute toxicity by inhalation:
No data available
Acute toxicity, dermal:
LD50 rabbit: > 2,000 mg/kg;
Group observation
(value of literature)
On the basis of available data classification criteria are not met.
Corrosion/irritation
Irritating to the skin:
Rabbit: non-irritant
Group observation
Test values/own bibliographic values
On the basis of available data classification criteria are not met.
Serious eye injury/serious eye irritation
Irritating to the eyes:
Rabbit: May cause irreversible damage to the eyes.
Test values/own bibliographic values
Group observation
Causes serious eye injuries.
Respiratory or skin sensitisation
Sensitisation:
Guinea pig Maximisation Test: not a sensitizer
Group observation
(value of literature)
On the basis of available data classification criteria are not met.
Mutagenicity germ cell tumor
Genotoxicity in vitro:
In vitro tests revealed no mutagenic effects
Group observation
Test values/own bibliographic values

MATERIAL SAFETY DATA SHEET

In conformity to Regulation (EC) No 453/2010 of 20 May 2010

Printed: 03/07/15

Rev. Nr. 01-c 09/09/14

In vivo: Genotoxicity

In vivo tests revealed no mutagenic effects

Group observation

(value of literature)

Comments:

On the basis of available data classification criteria are not met.

Cancerogenicity

The substance turned out to be not genotoxic, so you don't have to wait for a potential carcinogen.

Group observation

(value of literature)

Comments:

On the basis of available data classification criteria are not met.

Reproductive toxic:

Study of toxicity for reproduction on two generations: rat

NOAEL ((parents)): > 250 mg/kg (in reference 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)

Group observation

(value of literature)

Reproductive Toxicity comments:

On the basis of available data classification criteria are not met.

Teratogenicity

rat; Oral

NOAEL: > 50 mg/kg (in reference to body weight and day)

NOAEL (gravid female): 50 mg/kg (in reference to body weight and day);

Study of toxicity for reproduction on two generations

Group observation

(value of literature)

rat; skin

NOAEL: > 250 mg/kg (in reference to body weight and day)

NOAEL (gravid female): 250 mg/kg (in reference to body weight and day);

Study of toxicity for reproduction on two generations

Group observation

(value of literature)

-Teratogenicity Comments:

On the basis of available data classification criteria are not met.

Specific toxicity to target organs (STOT)-single exposure

Comments:

The substance or mixture is classified as intoxicating as a target organ for single exposure.

Specific toxicity to target organs (STOT) – repeated exposure

Comments:

The substance or mixture is classified as intoxicating to a specific target organ for repeated exposure.

Repeated dose toxicity:

rat; Oral; 2 years

NOAEL: 50 mg/kg (in reference to body weight and day)

Target organs: Heart, liver, kidney

Symptoms: increased body weight, limited increase in relative weights of organs.

Group observation

(value of literature)

Danger in case of aspiration

Toxicity by aspiration:

not applicable

MATERIAL SAFETY DATA SHEET

In conformity to Regulation (EC) No 453/2010 of 20 May 2010

Printed: 03/07/15

Rev. Nr. 01-c 09/09/14

12. ECOLOGICAL INFORMATION

Use according to good working practices, avoiding dispersion in the environment (see also sections 6, 7, 13, 14 and 15).

Inform the relevant authorities if the product reach waterways or sewers or contaminate soil or vegetation.

12.1. Toxicity

Sodium carbonate

Aquatic toxicity:

Pesci lepomis macrochirus, LC₅₀/96h, 300 mg/l

Crostacei ceriodaphnia-dubia, EC₅₀/48h, 200-227 mg/l

Sodium percarbonate (Sodium carbonate peroxyhydrate)

Toxicity to fish:

Remarks:

Harmful to aquatic organisms.

The environmental risk is limited only to the properties of the product.

Toxicity to fish (Components)

Sodium Percarbonate: LC₅₀: 70.7 mg / l

Exposure time: 96 h

Species: Pimephales promelas (Chub American)

Toxicity to daphnia and other aquatic invertebrates:

Remarks:

Harmful to aquatic organisms.

Toxicity to daphnia and other aquatic invertebrates. (Components)

Sodium Percarbonate: EC₅₀: 4.9 mg / l

Exposure time: 48 h

Species: Daphnia

C(E)L₅₀ (mg/l) = 4.9

Silicic acid, sodium salt

Acute toxic

fish, Brachydanio rerio, LC₅₀ (83d) 1108 mg/l

fish, Oncorhynchus mykiss, LC₅₀ (83d) 260-310 mg/l

fish, Brachydanio rerio, NOAEC (83d, mortality) 348 mg/l

aquatic invertebrates, Daphnia magna EC₅₀ (48 h) 1700 mg/l

aquatic plants

Scenedesmus subspicatus, EC₅₀ (72 h IC₅₀, biomass) 207 mg/l

Scenedesmus subspicatus, EC₅₀ (growth rate charts) 345.4 mg/l

microorganisms in wastewater

Prochlorococcus, EC₀ (6:0 pm) (1) (2) > 10000 mg/l

Prochlorococcus, EC₀ (6:0 pm) (3) (4) > 1000 mg/l

Prochlorococcus, EC₀ (30 mn) 3454 mg/l

Chronic toxic

fish, comparable to tests on desmodesmus subspicatus, EC₀ 207 mg/l

algae, algae, NOEC/EC₀ 35 mg/l

microorganisms in wastewater, Prochlorococcus, PNEC stp 348 mg/l

Benzensulfonic acid, C10-13 Alkyl derivs., sodium salts

Toxicity to fish

benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts: LC₅₀ (96 h) Lepomis macrochirus (Bluegill sunfish):> 1 - 10 mg / l, static test, U.S. EPA 1975 (value of literature)

toxicity to fish - chronic toxicity

benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts: (28 d) Lepomis macrochirus (Bluegill sunfish):> 0.1

MATERIAL SAFETY DATA SHEET

In conformity to Regulation (EC) No 453/2010 of 20 May 2010

Printed: 03/07/15

Rev. Nr. 01-c 09/09/14

to 1 mg / l speed growth, 28 d; Ecosystem model (value of literature)
toxicity to daphnia and other aquatic invertebrates.
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts: (48 h) Daphnia magna (Water flea):> 1 - 10 mg / l, static test, OECD TG 202 (literature value)
toxicity to daphnia and other aquatic invertebrates - Chronic toxicity
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts: NOEC (32 d) Elimi:> 1 - 10 mg / l 32 d mortality; Ecosystem model; (literature value)
toxicity to aquatic plants
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts: NOEC (28 d) Elodea canadensis:> 4 mg / l; Ecosystem model; (literature value)
M-factor10
C(E)L50 (mg/l) = 0.1

Alcohols, C12-13- branched and linear, ethoxylated (>5 - 10 EO)

Toxicity for fish:

LC50 (96 h) Cyprinus carpio (CARP): 1-10 > mg/l; Flow-through test; OECD TG 203

Test values/own bibliographic values group observation

Toxicity to daphnia and other aquatic invertebrates:

EC50 (48 h) Daphnia magna (water Flea): 1-10 > mg/l; Static test; OECD TG 202

Test values/own bibliographic values

Group observation

Toxicity to aquatic plants:

EC50 (72 h) Desmodesmus subspicatus (green algae): 1-10 > mg/l; Static test; OECD TG 201;

Test values/own bibliographic values

Group observation

Toxicity to bacteria:

EC50 activated sludge: 140 mg/l; Respiration inhibitor

Group observation

(value of literature)

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

12.2. Persistence and degradability.

No data available on the mixture.

Related to contained substances:

Sodium carbonate

ABIOTIC DEGRADATION

Water, hydrolyses.

Result: acid / base balance as a function of pH.

Products of degradation: carbon dioxide / bicarbonate / carbonate

BIODEGRADATION

Remarks: The methods for determining biodegradability are not applicable to non-organic substances.

sodium carbonate peroxyhydrate

biodegradability:

Not applicable, product of inorganic nature.

Chemical degradation:

The product decomposes into sodium carbonate and hydrogen peroxide, which neutralizes the carbon dioxide / bicarbonate / carbonate, water and oxygen

MATERIAL SAFETY DATA SHEET

In conformity to Regulation (EC) No 453/2010 of 20 May 2010

Printed: 03/07/15

Rev. Nr. 01-c 09/09/14

Silicic acid, sodium salt
Not applicable, product of inorganic nature.

Benzensulfonic acid, C10-13 Alkyl derivs., sodium salts
Biodegradability
Benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts: Readily biodegradable.> 60%, 28 d;
aerobic; OECD Test Guideline 301 B

Alcohols, C12-13- branched and linear, ethoxylated (>5 - 10 EO)
Rapidly biodegradable.; > 60%; 28 d; aerobic exercise; OECD TG 301 B
Test values/own bibliographic values
Group observation

12.3. Bioaccumulative potential.

No data available on the mixture.

Related to contained substances:

Sodium carbonate
does not bioaccumulate.

sodium carbonate peroxyhydrate
Does not bioaccumulate.

Silicic acid, sodium salt
Based on available data excludes possibility of bioaccumulation.

Benzensulfonic acid, C10-13 Alkyl derivs., sodium salts
Bioaccumulation
benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts: fathead minnows (Chub American), 192
h; OECD Test Guideline 305 E (literature value) do not accumulate significantly in organisms.

Alcohols, C12-13- branched and linear, ethoxylated (>5 - 10 EO)
Bioaccumulation unlikely.
(value of literature)

12.4. Mobility in soil.

No data available on the mixture.

Related to contained substances:

Sodium carbonate
Air comments: N.A.
Water comments: solubility
Water comments: mobility
Soil / sediment observations: not significant

sodium carbonate peroxyhydrate
Water solubility: 140 g / l (20 ° C)
Does not adsorb in the soil.

MATERIAL SAFETY DATA SHEET

In conformity to Regulation (EC) No 453/2010 of 20 May 2010

Printed: 03/07/15

Rev. Nr. 01-c 09/09/14

Silicic acid, sodium salt

In the event of accidental releases of the product, as well as intentional soil treatments, the product reacts with the acids and metal ions of multi-purpose soil, forming a gel waterproof. As a result of this reaction, the product does not spread further of into the soil.

Benzensulfonic acid, C10-13 Alkyl derivs., sodium salts

Mobility

Benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts: soil / sludge settling slightly mobile in soils

Alcohols, C12-13- branched and linear, ethoxylated (>5 - 10 EO)

No data available

12.5. Results of PBT and vPvB assessment.

The components of the mixture does not meet the criteria vPvB and PBT.

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 Waste treatment methods

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 classified as dangerous in the meaning of transport regulations.

14.2 UN proper shipping name

N.A.

14.3 Transport hazard class(es)

N.A.

14.4 Packing Group

N.A.

14.5 Environmental hazards

N.A.

14.6 Special Precautions for User

N.A.

14.7 Transport in bulk according to Annex II of Marpol 73/78 and the IBC Code Environmental Pollutant

N.A.

MATERIAL SAFETY DATA SHEET

In conformity to Regulation (EC) No 453/2010 of 20 May 2010

Printed: 03/07/15

Rev. Nr. 01-c 09/09/14

15. REGULATORY INFORMATION

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

Seveso Category: None

Restrictions concerning the product or to substances according to Annex XVII Regulation (EC) 1907/2006:

none

Candidate List substances (Article 59 REACH):

none

Substances subject to authorization (Annex XIV REACH):

none

Regulation 648/2004/EC (detergents),

Directive no. 2006/8/EC

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n.790/2009

15.2 Chemical Safety Assessment

None.

16. OTHER INFORMATION

Text of phrases referred to under heading 3:

R8 = Contact with combustible material may cause fire.

R22 = Harmful if swallowed.

R36 = Irritating to eyes.

R37 = Irritating to respiratory system.

R38 = Irritating to skin.

R41 = Risk of serious damage to eyes.

Description of the hazard statements exposed to point 3

H319 = Causes serious eye irritation.

H272 = May intensify fire; oxidiser.

H302 = Harmful if swallowed.

H318 = Causes serious eye damage.

H315 = Causes skin irritation.

H335 = May cause respiratory irritation.

Directive criteria, 67/548/CE, 99/45/EC and following amendments thereof:

Properties / Symbols: Xi Irritant

R Phrases: R41 Risk of serious damage to eyes.

Safety Phrases (S):

S2 Keep out of the reach of children.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S46 If swallowed, seek medical advice immediately and show this container or label.

MATERIAL SAFETY DATA SHEET

In conformity to Regulation (EC) No 453/2010 of 20 May 2010

Printed: 03/07/15

Rev. Nr. 01-c 09/09/14

Classification based on data of all mixture components

Main normative references:

Directive 1999/45/EC

Directive 2001/60/EC

Regulation 1272/2008/EC

Regulation 2010/453/EC

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.