

according to Regulation (EC) No 1907/2006

SENO 3211 Glanzzinn

Revision date: 11.03.2021

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

1.1. Product identifier

SENO 3211 Glanzzinn

Product code:

SENO 3211

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

Use of the substance/mixture

No information available.

1.3. Details of the supplier of the safety data sheet

| Company name: | BESTCHEM GmbH | |
|-------------------------------------|---|--|
| Street: | Am Sportplatz 12 A | |
| Place: | D-63826 Geiselbach | |
| Telephone: | +49 (0) 6024 30 99 880 | Telefax:+49 (0) 6024 30 99 887 |
| e-mail: | info@bestchem.de | |
| Internet: | www.bestchem.de | |
| 1.4. Emergency telephone number: | Medical Emergency information in c Mainz – 24h – Phone: +49 6131 192 | ase of poisoning: Poison Information Center 240 |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories: Skin corrosion/irritation: Skin Irrit. 2 Serious eye damage/eye irritation: Eye Dam. 1 Respiratory or skin sensitisation: Skin Sens. 1 Germ cell mutagenicity: Muta. 2 Carcinogenicity: Carc. 2 Reproductive toxicity: Repr. 2 Specific target organ toxicity - repeated exposure: STOT RE 2 Hazardous to the aquatic environment: Aquatic Chronic 2 Hazard Statements: Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. Suspected of causing genetic defects. Suspected of causing cancer. Suspected of damaging fertility. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling Tartaric acid thiocarbamide, thiourea Tin chloride dihvdrate

Signal word: Danger

Revision No: 1,1 - Replaces version: 1,0



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Hazard statements

Pictograms:

| H315 | Causes skin irritation. |
|--------|--|
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H341 | Suspected of causing genetic defects. |
| H351 | Suspected of causing cancer. |
| H361fd | Suspected of damaging fertility. Suspected of damaging the unborn child. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H411 | Toxic to aquatic life with long lasting effects. |

Precautionary statements

| oodallonaly olatomor | |
|----------------------|---|
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P310 | Immediately call a POISON CENTER/doctor. |
| P391 | Collect spillage. |
| | |

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

| CAS No | Chemical name | | Quantity | | |
|------------|---|--------------|------------------|-------------|--|
| | EC No | Index No | REACH No | | |
| | GHS Classification | | | | |
| 87-69-4 | Tartaric acid | | | 25 - 50 % | |
| | 201-766-0 | | 01-2119537204-47 | | |
| | Eye Dam. 1; H318 | | | | |
| 62-56-6 | thiocarbamide, thiourea | | 25 - < 30 % | | |
| | 200-543-5 | 612-082-00-0 | 01-2119977062-37 | | |
| | Carc. 2, Repr. 2, Acute Tox. 4, Aqu | 411 | | | |
| 10025-69-1 | Tin chloride dihydrate | | | 15 - < 20 % | |
| | 231-868-0 | | 01-2119971277-28 | | |
| | Muta. 2, Repr. 2, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, STOT SE 3, STOT RE 2, Aquatic Acute 1, Aquatic Chronic 1; H341 H361 H332 H315 H319 H317 H335 H373 H400 H410 | | | | |

Full text of H and EUH statements: see section 16.



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Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity |
|------------|------------------------------|--|-------------|
| | Specific Conc. | Limits, M-factors and ATE | |
| 87-69-4 | 201-766-0 | Tartaric acid | 25 - 50 % |
| | dermal: LD50 | = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg | |
| 62-56-6 | 200-543-5 | thiocarbamide, thiourea | 25 - < 30 % |
| | dermal: LD50 | = 2800 mg/kg; oral: LD50 = 1750 mg/kg | |
| 10025-69-1 | 231-868-0 | Tin chloride dihydrate | 15 - < 20 % |
| | inhalation: AT 2274 mg/kg | E = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); oral: LD50 = | |

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Call a doctor if you feel unwell. If unconscious place in recovery position and seek medical advice. If breathing is irregular or stopped, administer artificial respiration.

After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice. If breathing is irregular or stopped, administer artificial respiration. If experiencing respiratory symptoms: Call a doctor.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary. Unsuitable material: Solvent/Thinner.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting. Keep at rest. Immediately call a doctor.

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

No information available.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

alcohol resistant foam. Carbon dioxide (CO2). Powder. Water spray.

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Formation of: Hazardous decomposition products

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

Use water spray jet to protect personnel and to cool endangered containers.

Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures



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6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid dust formation. Do not breathe dust. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid contact with skin, eyes and clothes. Do not breathe dust. When using do not eat, drink or smoke. Wear personal protection equipment. Remove all sources of ignition.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations. Never use pressure to empty container. Store in a place accessible by authorized persons only. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (TRGS 727)". Keep/Store only in original container.

Hints on joint storage

Do not store together with: acid. Alkalis (alkalis). Oxidizing agents. Keep away from heat. Protect against direct sunlight.

Further information on storage conditions

storage temperature: 15°C - 30°C

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

| CAS No | Substance | ppm | mg/m³ | fibres/ml | Category | Origin |
|--------|--|-----|-------|-----------|---------------|--------|
| - | Tin compounds, inorganic, except SnH4, (as Sn) | | 2 | | TWA (8 h) | WEL |
| | | - | 4 | | STEL (15 min) | WEL |



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DNEL/DMEL values

| CAS No | Substance | | | |
|--|-------------------------|----------------|----------|------------------|
| DNEL type | | Exposure route | Effect | Value |
| 87-69-4 | Tartaric acid | | | |
| Consumer D | NEL, long-term | oral | systemic | 8,1 mg/kg bw/day |
| Consumer D | NEL, long-term | dermal | systemic | 1,5 mg/kg bw/day |
| Worker DNE | L, long-term | dermal | systemic | 2,9 mg/kg bw/day |
| Consumer DNEL, long-term inhalation systemic 1,3 mg/m³ | | | | 1,3 mg/m³ |
| Worker DNE | L, long-term | inhalation | systemic | 5,2 mg/m³ |
| 62-56-6 | thiocarbamide, thiourea | | - | |
| Worker DNE | L, long-term | dermal | systemic | 3,4 mg/kg bw/day |
| Consumer D | NEL, long-term | oral | systemic | 0,1 mg/kg bw/day |
| Consumer DNEL, long-term | | dermal | systemic | 1,7 mg/kg bw/day |
| Consumer D | NEL, long-term | inhalation | systemic | 0,2 mg/m³ |
| DNEC value | | | | |

PNEC values

| CAS No | Substance | |
|--|-------------------------|--------------|
| Environmen | tal compartment | Value |
| 87-69-4 | Tartaric acid | |
| Freshwater | | 0,3125 mg/l |
| Freshwater | (intermittent releases) | 0,514 mg/l |
| Marine wate | r | 0,3125 mg/l |
| Freshwater | sediment | 1,141 mg/kg |
| Marine sedir | nent | 1,141 mg/kg |
| Micro-organ | 10 mg/l | |
| 62-56-6 | thiocarbamide, thiourea | |
| Freshwater | | 0,01 mg/l |
| Marine wate | r | 0,001 mg/l |
| Freshwater | sediment | 0,0725 mg/kg |
| Marine sedir | nent | 0,0072 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 0,38 mg/kg |
| Soil | | 2,725 mg/kg |

8.2. Exposure controls





Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe dust. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

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Eye/face protection

Tightly sealed safety glasses.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. EN 374 Suitable material: NBR (Nitrile rubber) Thickness of glove material: > 0,4 mm

Breakthrough time (maximum wearing time) > 480 min

Skin protection

Wear suitable protective clothing. Wear anti-static footwear and clothing

Respiratory protection

In case of inadequate ventilation wear respiratory protection. (BGR 190)

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Physical state: | solid | | |
|---|----------------|----------------|-------------|
| Colour: | | | |
| Odour: | characteristic | | |
| | | | Test method |
| pH-Value: | | not determined | |
| Changes in the physical state | | | |
| Melting point: | | not determined | |
| Boiling point or initial boiling point and boiling range: | | not determined | |
| Flash point: | | not applicable | |
| Flammability | | | |
| Solid: | | not determined | |
| Gas: | | not applicable | |
| Explosive properties No information available. | | | |
| Lower explosion limits: | | not determined | |
| Upper explosion limits: | | not determined | |
| Self-ignition temperature | | | |
| Solid: | | not determined | |
| Gas: | | not applicable | |
| Decomposition temperature: | | not determined | |
| Oxidizing properties Not oxidising. | | | |
| Vapour pressure: | | not determined | |
| Density (at 21 °C): | | 1,586 g/cm³ | DIN 53217 |
| Water solubility: | | easily soluble | |
| | | | |

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| Solubility in other solvents not determined | |
|--|----------------|
| Partition coefficient n-octanol/water: | not determined |
| Viscosity / dynamic: | not determined |
| Viscosity / kinematic: | not determined |
| Relative vapour density: | not determined |
| Evaporation rate: | not determined |
| Solvent separation test: | < 3% ADR/RID |
| Solvent content: | 0% |
| 9.2. Other information | |
| Solid content: | 100 % |
| Odour threshold: not determined | |

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Exothermic reaction with: Strong acid, Base, Oxidizing agents, strong.

10.4. Conditions to avoid

Keep away from heat. Protect against direct sunlight.

10.5. Incompatible materials

Strong acid, Base, Oxidizing agents, strong.

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides (NOx).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

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



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| CAS No | Chemical name | | | | | | |
|------------|-------------------------|---------------|----------|---------|--------------|--------|--|
| | Exposure route | Dose | | Species | Source | Method | |
| 87-69-4 | Tartaric acid | | | | | | |
| | oral | LD50 mg/kg | > 2000 | Rat | Manufacturer | | |
| | dermal | LD50 mg/kg | > 2000 | Rabbit | Manufacturer | | |
| 62-56-6 | thiocarbamide, thiourea | | | | | | |
| | oral | LD50 mg/kg | 1750 | Rat | Manufacturer | | |
| | dermal | LD50 mg/kg | 2800 | Rabbit | Manufacturer | | |
| 10025-69-1 | Tin chloride dihydrate | | | | | | |
| | oral | LD50 mg/kg | 2274 | Rat | Manufacturer | | |
| | inhalation vapour | ATE | 11 mg/l | | | | |
| | inhalation aerosol | ATE | 1,5 mg/l | | | | |

Irritation and corrosivity

Causes skin irritation.

Causes serious eye damage.

Sensitising effects

May cause an allergic skin reaction. (Tin chloride dihydrate)

Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of causing genetic defects. (Tin chloride dihydrate) Suspected of causing cancer. (thiocarbamide, thiourea) Suspected of damaging fertility. Suspected of damaging the unborn child.

STOT-single exposure

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

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure. (Tin chloride dihydrate)

Aspiration hazard

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

Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP]. Special hazards arising from the substance or mixture!

SECTION 12: Ecological information

12.1. Toxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.



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CAS No Chemical name Aquatic toxicity Dose [h] | [d] Species Source Method 87-69-4 Tartaric acid LC50 Acute fish toxicity > 100 96 h Brachydanio rerio Manufacturer **OECD 203** (zebra-fish) mg/l Acute crustacea toxicity EC50 > 100 48 h Daphnia magna Manufacturer **OECD 202** mg/l 62-56-6 thiocarbamide, thiourea I C50 > 10 96 hl euciscus idus Manufacturer Acute fish toxicity mg/l (golden orfe) EC50 48 h Daphnia magna Acute crustacea toxicity 110 mg/l Manufacturer

12.2. Persistence and degradability

The product has not been tested.

| CAS No | Chemical name | | | | | |
|---------|---|-------|----|--------|--|--|
| | Method | Value | d | Source | | |
| | Evaluation | | | | | |
| 87-69-4 | Tartaric acid | | | | | |
| | OECD 306 | 85 % | 28 | | | |
| | Readily biodegradable (according to OECD criteria). | | | | | |

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|---------|-------------------------|---------|
| 87-69-4 | Tartaric acid | -0,76 |
| 62-56-6 | thiocarbamide, thiourea | -1,05 |

12.4. Mobility in soil

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

List of Wastes Code - residues/unused products

060313 WASTES FROM INORGANIC CHEMICAL PROCESSES; wastes from the MFSU of salts and their solutions and metallic oxides; solid salts and solutions containing heavy metals; hazardous waste

Contaminated packaging

This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information



according to Regulation (EC) No 1907/2006

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| 14.2. UN proper shipping name: | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (thiocarbamide, thiourea, Tin chloride dihydrate) | | | |
| 14.3. Transport hazard class(es): | 9 | | | |
| 14.4. Packing group: | III | | | |
| Hazard label: | 9 | | | |
| | A Contraction of the second se | | | |
| | | | | |
| | 9 | | | |
| Special Provisions: | A97 A158 A179 A197 | | | |
| Limited quantity Passenger: | 30 kg G | | | |
| Passenger LQ: | Y956 | | | |
| Excepted quantity: | E1 | | | |
| IATA-packing instructions - Passenger: | 956 | | | |
| IATA-max. quantity - Passenger: | 400 kg | | | |
| IATA-packing instructions - Cargo: | 956 400 km | | | |
| IATA-max. quantity - Cargo: | 400 kg | | | |
| 14.5. Environmental hazards | <u>,</u> | | | |
| ENVIRONMENTALLY HAZARDOUS: | Yes | | | |
| | | | | |
| Danger releasing substance: | thiocarbamide, thiourea, Tin chloride dihydrate | | | |
| 14.6. Special precautions for user | | | | |
| No information available. | | | | |
| 14.7. Transport in bulk according to Annex | II of Marpol and the IBC Code | | | |
| not applicable | | | | |
| SECTION 15: Regulatory information | | | | |
| | | | | |
| 15.1. Safety, health and environmental reg | ulations/legislation specific for the substance or mixture | | | |
| EU regulatory information | | | | |
| Information according to 2012/18/EU (SEVESO III): | E2 Hazardous to the Aquatic Environment | | | |
| National regulatory information | | | | |
| Employment restrictions: | Observe restrictions to employment for juveniles according to the 'juve | enile | | |
| | work protection guideline' (94/33/EC). Observe employment restriction | | | |
| | under the Maternity Protection Directive (92/85/EEC) for expectant or | | | |
| | nursing mothers. | | | |
| Water hazard class (D): | 3 - highly hazardous to water | | | |
| Skin resorption/Sensitization: | Causes allergic hypersensitivity reactions. | | | |
| 15.2. Chemical safety assessment | | | | |
| Chemical safety assessments for sub | stances in this mixture were not carried out. | | | |
| SECTION 16: Other information | | | | |

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16.

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)



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IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

| Classification | Classification procedure |
|-------------------------|--------------------------|
| Skin Irrit. 2; H315 | Calculation method |
| Eye Dam. 1; H318 | Calculation method |
| Skin Sens. 1; H317 | Calculation method |
| Muta. 2; H341 | Calculation method |
| Carc. 2; H351 | Calculation method |
| Repr. 2; H361fd | Calculation method |
| STOT RE 2; H373 | Calculation method |
| Aquatic Chronic 2; H411 | Calculation method |

Relevant H and EUH statements (number and full text)

| H302 | Harmful if swallowed. |
|--------|--|
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H341 | Suspected of causing genetic defects. |
| H351 | Suspected of causing cancer. |
| H361 | Suspected of damaging fertility or the unborn child. |
| H361d | Suspected of damaging the unborn child. |
| H361fd | Suspected of damaging fertility. Suspected of damaging the unborn child. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| | |

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)