

SAFETY DATA SHEET



TEKNOCLAD SILVER 2125-42 - All variants

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

1.1 Product identifier

Product name : TEKNOCLAD SILVER 2125-42 - All variants

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

Product use : Paint.

1.3 Details of the supplier of the safety data sheet

Teknos Group Oy, Takkatie 3, FI-00370 HELSINKI, FINLAND. Tel. +358 9 506 091.

e-mail address of person responsible for this SDS : Prod-safe@teknos.com

National contact

Teknos Ireland Limited, 52 Ballymoughan Road, Magherafelt, BT45 6HN, UK. Tel. +44 (0) 2879 301 472.

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number : NHS: 111

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Skin Sens. 1, H317

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms :



Signal word : Warning

Hazard statements : H317 - May cause an allergic skin reaction.

Precautionary statements

Prevention : P280 - Wear protective gloves.
P261 - Avoid breathing vapour.

Response : P302 + P352 - IF ON SKIN: Wash with plenty of water.
P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.
P362 + P364 - Take off contaminated clothing and wash it before reuse.

Storage : Not applicable.

Disposal : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazardous ingredients : Contains: EO bis(benzotriazolyl)phenylpropionat; Reaction mass of Bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate; 1,2-benzisothiazol-3(2H)-one and 2-methyl-2H-isothiazol-3-one

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Label No : 92792

SECTION 2: Hazards identification

Supplemental label elements : Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles :

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do not result in classification : None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

| Product/ingredient name | Identifiers | % | Classification | Specific Conc. Limits, M-factors and ATEs | Type |
|---|--|--------|---|--|---------|
| Titanium dioxide | REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7 | ≤3 | Carc. 2, H351 (inhalation) | - | [1] [*] |
| EO bis(benztriazolyl) phenylpropionat | REACH #: 01-0000015075-76 EC: 400-830-7 CAS: 104810-48-2 Index: 607-176-00-3 | <1 | Skin Sens. 1A, H317 Aquatic Chronic 2, H411 | - | [1] |
| calcium bis (2-ethylhexanoate) | EC: 205-249-0 CAS: 136-51-6 Index: 607-230-00-6 | <0.3 | Repr. 1B, H360D | - | [1] |
| ammonia, anhydrous | EC: 231-635-3 CAS: 7664-41-7 Index: 007-001-00-5 | ≤0.3 | Flam. Gas 2, H221 Press. Gas (Comp.), H280 Acute Tox. 3, H331 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 | ATE [Inhalation (gases)] = 2000 ppm M [Acute] = 1 | [1] [2] |
| 2-Butoxyethanol | REACH #: 01-2119475108-36 EC: 203-905-0 CAS: 111-76-2 Index: 603-014-00-0 | ≤0.3 | Acute Tox. 4, H302 Acute Tox. 3, H331 Skin Irrit. 2, H315 Eye Irrit. 2, H319 | ATE [Oral] = 1200 mg/kg ATE [Inhalation (vapours)] = 3 mg/l | [1] [2] |
| Reaction mass of Bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | REACH #: 01-2119491304-40 EC: 915-687-0 CAS: 1065336-91-5 | <0.1 | Skin Sens. 1A, H317 Repr. 2, H361f Aquatic Acute 1, H400 Aquatic Chronic 1, H410 | M [Acute] = 1 M [Chronic] = 1 | [1] |
| 1,2-benzisothiazol-3(2H)-one | EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6 | <0.036 | Acute Tox. 4, H302 Acute Tox. 2, H330 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 | ATE [Oral] = 450 mg/kg ATE [Inhalation (dusts and mists)] = 0.21 mg/l | [1] |

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SECTION 3: Composition/information on ingredients

| | | | | | |
|------------------------------|---|---------|---|---|-----|
| pyrithione zinc | REACH #: 01-2119511196-46 EC: 236-671-3 CAS: 13463-41-7 Index: 613-333-00-7 | ≤0.0015 | Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Acute Tox. 3, H301 Acute Tox. 2, H330 Eye Dam. 1, H318 Repr. 1B, H360D STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 | Skin Sens. 1, H317: C ≥ 0.036% M [Acute] = 1 M [Chronic] = 1 ATE [Oral] = 221 mg/kg ATE [Inhalation (dusts and mists)] = 0.14 mg/l M [Acute] = 1000 M [Chronic] = 10 | [1] |
| 2-methyl-2H-isothiazol-3-one | EC: 220-239-6 CAS: 2682-20-4 Index: 613-326-00-9 | <0.0015 | Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 2, H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 EUH071 See Section 16 for the full text of the H statements declared above. | ATE [Oral] = 100 mg/kg ATE [Dermal] = 300 mg/kg ATE [Inhalation (dusts and mists)] = 0.11 mg/l Skin Sens. 1, H317: C ≥ 0.0015% M [Acute] = 10 M [Chronic] = 1 | [1] |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[*] The classification as a carcinogen by inhalation applies only to mixtures placed on the market in powder form containing 1% or more of titanium dioxide particles with aerodynamic diameter ≤ 10 µm not bound within a matrix.

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact

: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

SECTION 4: First aid measures

- Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:
irritation
redness
- Ingestion** : No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.

5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture** : In a fire or if heated, a pressure increase will occur and the container may burst.
- Hazardous combustion products** : Decomposition products may include the following materials:
metal oxide/oxides

5.3 Advice for firefighters

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

- : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

6.4 Reference to other sections

- : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

- Recommendations** : Not available.
- Industrial sector specific solutions** : Not available.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

| Product/ingredient name | Exposure limit values |
|-------------------------|---|
| Ammonia, anhydrous | EH40/2005 WELs (United Kingdom (UK), 1/2020) [ammonia] STEL 15 minutes: 25 mg/m ³ . Form: anhydrous. STEL 15 minutes: 35 ppm. Form: anhydrous. TWA 8 hours: 25 ppm. Form: anhydrous. TWA 8 hours: 18 mg/m ³ . Form: anhydrous. |
| 2-Butoxyethanol | EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed through skin. STEL 15 minutes: 50 ppm. TWA 8 hours: 25 ppm. STEL 15 minutes: 246 mg/m ³ . TWA 8 hours: 123 mg/m ³ . |

Biological exposure indices

| Product/ingredient name | Exposure indices |
|-------------------------|---|
| 2-Butoxyethanol | EH40/2005 BMGVs (United Kingdom (UK), 1/2020) BGV: 240 mmol/mol creatinine, butoxyacetic acid [in urine]. Sampling time: post shift. |

Recommended monitoring procedures : Reference should be made to monitoring standards, such as the following:
European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

| Product/ingredient name | Result |
|-------------------------------|--|
| Titanium dioxide | DNEL - General population - Long term - Inhalation 28 µg/m ³ <u>Effects</u> : Local DNEL - Workers - Long term - Inhalation 170 µg/m ³ <u>Effects</u> : Local |
| calcium bis(2-ethylhexanoate) | DNEL - General population - Long term - Oral 0.167 mg/kg bw/day <u>Effects</u> : Systemic DNEL - General population - Long term - Dermal 0.167 mg/kg bw/day <u>Effects</u> : Systemic DNEL - Workers - Long term - Dermal 0.333 mg/kg bw/day <u>Effects</u> : Systemic DNEL - General population - Long term - Inhalation 0.58 mg/m ³ <u>Effects</u> : Systemic DNEL - General population - Long term - Inhalation 0.66 mg/m ³ |

SECTION 8: Exposure controls/personal protection

Effects: Local

DNEL - Workers - Long term - Inhalation

2.351 mg/m³

Effects: Systemic

DNEL - Workers - Long term - Inhalation

2.66 mg/m³

Effects: Local

DNEL - General population - Long term - Inhalation

2.8 mg/m³

Effects: Local

DNEL - General population - Short term - Oral

6.8 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Oral

6.8 mg/kg bw/day

Effects: Systemic

DNEL - General population - Short term - Dermal

6.8 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Dermal

6.8 mg/kg bw/day

Effects: Systemic

DNEL - Workers - Short term - Dermal

6.8 mg/kg bw/day

Effects: Systemic

DNEL - Workers - Long term - Dermal

6.8 mg/kg bw/day

Effects: Systemic

DNEL - General population - Short term - Inhalation

7.2 mg/m³

Effects: Local

DNEL - Workers - Long term - Inhalation

14 mg/m³

Effects: Local

DNEL - General population - Short term - Inhalation

23.8 mg/m³

Effects: Systemic

DNEL - General population - Long term - Inhalation

23.8 mg/m³

Effects: Systemic

DNEL - Workers - Short term - Inhalation

36 mg/m³

Effects: Local

DNEL - Workers - Short term - Inhalation

47.6 mg/m³

Effects: Systemic

DNEL - Workers - Long term - Inhalation

47.6 mg/m³

Effects: Systemic

ammonia, anhydrous

SECTION 8: Exposure controls/personal protection

2-Butoxyethanol

DNEL - General population - Long term - Oral

6.3 mg/kg bw/day

Effects: Systemic

DNEL - General population - Short term - Oral

26.7 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Inhalation

59 mg/m³

Effects: Systemic

DNEL - Workers - Long term - Inhalation

98 mg/m³

Effects: Systemic

DNEL - General population - Short term - Inhalation

147 mg/m³

Effects: Local

DNEL - Workers - Short term - Inhalation

246 mg/m³

Effects: Local

DNEL - General population - Short term - Inhalation

426 mg/m³

Effects: Systemic

DNEL - Workers - Short term - Inhalation

1091 mg/m³

Effects: Systemic

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl
1,2,2,6,6-pentamethyl-4-piperidyl sebacate

DNEL - General population - Long term - Oral

0.18 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Inhalation

0.31 mg/m³

Effects: Systemic

DNEL - General population - Long term - Dermal

0.9 mg/kg bw/day

Effects: Systemic

DNEL - Workers - Long term - Inhalation

1.27 mg/m³

Effects: Systemic

DNEL - Workers - Long term - Dermal

1.8 mg/kg bw/day

Effects: Systemic

1,2-benzisothiazol-3(2H)-one

DNEL - General population - Long term - Dermal

0.345 mg/kg bw/day

Effects: Systemic

DNEL - Workers - Long term - Dermal

0.966 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Inhalation

1.2 mg/m³

Effects: Systemic

DNEL - Workers - Long term - Inhalation

6.81 mg/m³

SECTION 8: Exposure controls/personal protection

Effects: Systemic

pyrithione zinc

DNEL - Workers - Long term - Dermal

0.01 mg/kg bw/day

Effects: Systemic

2-methyl-2H-isothiazol-3-one

DNEL - General population - Long term - Inhalation

0.021 mg/m³

Effects: Local

DNEL - Workers - Long term - Inhalation

0.021 mg/m³

Effects: Local

DNEL - General population - Long term - Oral

0.027 mg/kg bw/day

Effects: Systemic

DNEL - General population - Short term - Inhalation

0.043 mg/m³

Effects: Local

DNEL - Workers - Short term - Inhalation

0.043 mg/m³

Effects: Local

DNEL - General population - Short term - Oral

0.053 mg/kg bw/day

Effects: Systemic

PNECs

Not available.

8.2 Exposure controls

Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Recommendations : Wear suitable gloves tested to EN374.

> 8 hours (breakthrough time): Nitrile gloves. thickness > 0.3 mm

Not recommended polyvinyl alcohol (PVA) gloves

SECTION 8: Exposure controls/personal protection

- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance

- Physical state** : Liquid.
- Colour** : Various
- Odour** : Slight
- Odour threshold** : Not available.
- Melting point/freezing point** : Not available.
- Initial boiling point and boiling range** :

| Ingredient name | °C | °F | Method |
|------------------|--------------|--------------|--------|
| water | 100 | 212 | |
| titanium dioxide | 2500 to 3000 | 4532 to 5432 | |

- Flammability** : Not available.
- Lower and upper explosion limit** : Lower: Not applicable.
Upper: Not applicable.
- Flash point** : Closed cup: >100°C (>212°F)
- Auto-ignition temperature** : Not available.
- Decomposition temperature** : Not available.
- pH** : 6.5 to 9.5
- Viscosity** : Not available.
- Solubility(ies)** :
Not available.
- Solubility in water** : Not available.
- Partition coefficient: n-octanol/ water** : Not applicable.
- Vapour pressure** :

| Ingredient name | Vapour Pressure at 20°C | | | Vapour pressure at 50°C | | |
|-----------------|-------------------------|-----|--------|-------------------------|-----|--------|
| | mm Hg | kPa | Method | mm Hg | kPa | Method |
| water | 17.5 | 2.3 | | | | |

- Relative density** : Not available.
- Density** : 1 g/cm³
- Vapour density** : Not available.
- Particle characteristics**

SECTION 9: Physical and chemical properties

Median particle size : Not applicable.

9.2 Other information

9.2.1 Information with regard to physical hazard classes

Explosive properties : Not available.

Oxidising properties : Not available.

9.2.2 Other safety characteristics

Not applicable.

SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : The product is stable.

10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : No specific data.

10.5 Incompatible materials : No specific data.

10.6 Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product/ingredient name

Ammonia, anhydrous

Result

Rat - Inhalation - LC50 Gas.
2000 ppm [4 hours]

Rat - Inhalation - LC50 Gas.
9500 ppm [1 hours]

Rat - Inhalation - LC50 Vapour
4673 mg/m³ [4 hours]

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

Rat - Oral - LD50
3230 mg/kg

Rat - Dermal - LD50
>3170 mg/kg

1,2-benzisothiazol-3(2H)-one

Rat - Oral - LD50
1020 mg/kg

pyrithione zinc

Rat - Oral - LD50
177 mg/kg

Rabbit - Dermal - LD50
100 mg/kg

Rat - Inhalation - LC50 Dusts and mists
140 mg/m³ [4 hours]

Toxic effects: Lung, Thorax, or Respiration - Acute pulmonary edema Lung, Thorax, or Respiration - Dyspnea Gross Metabolite Changes - Weight loss or decreased weight gain

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2-methyl-2H-isothiazol-3-one

Rat - Inhalation - LC50 Dusts and mists

0.11 mg/l [4 hours]

Conclusion/Summary [Product] : Not available.

Acute toxicity estimates

| Product/ingredient name | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|---|--------------|----------------|--------------------------|-----------------------------|-------------------------------------|
| TEKNOCLAD SILVER 2125-42 | N/A | N/A | 1060543.9 | 1233.8 | N/A |
| ammonia, anhydrous | N/A | N/A | 2000 | 4.673 | N/A |
| 2-Butoxyethanol | 1200 | N/A | N/A | 3 | N/A |
| Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl | 3230 | N/A | N/A | N/A | N/A |
| 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | | | | | |
| 1,2-benzisothiazol-3(2H)-one | 450 | N/A | N/A | N/A | 0.21 |
| pyrithione zinc | 221 | N/A | N/A | N/A | 0.14 |
| 2-methyl-2H-isothiazol-3-one | 100 | 300 | N/A | N/A | 0.11 |

Skin corrosion/irritation

Product/ingredient name

Titanium dioxide

Result

Human - Skin - Mild irritant

Duration of treatment/exposure: 72 hours

Amount/concentration applied: 300 ug l

2-Butoxyethanol

Rabbit - Skin - Mild irritant

Amount/concentration applied: 500 mg

1,2-benzisothiazol-3(2H)-one

Human - Skin - Mild irritant

Duration of treatment/exposure: 48 hours

Amount/concentration applied: 5 %

Conclusion/Summary [Product] : Not available.

Serious eye damage/eye irritation

Product/ingredient name

2-Butoxyethanol

Result

Rabbit - Eyes - Moderate irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 100 mg

Rabbit - Eyes - Severe irritant

Amount/concentration applied: 100 mg

Conclusion/Summary [Product] : Not available.

Respiratory corrosion/irritation

Not available.

Conclusion/Summary [Product] : Not available.

Respiratory or skin sensitization

Not available.

Skin

Conclusion/Summary [Product] : Not available.

SECTION 11: Toxicological information

Respiratory

Conclusion/Summary [Product] : Not available.

Germ cell mutagenicity

Not available.

Conclusion/Summary [Product] : Not available.

Carcinogenicity

It has been observed that the carcinogenic hazard of this product arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung.

Not available.

Conclusion/Summary [Product] : Not available.

Reproductive toxicity

Not available.

Conclusion/Summary [Product] : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

| Product/ingredient name | Result |
|-------------------------|-----------------|
| pyrithione zinc | STOT RE 1, H372 |

Aspiration hazard

Not available.

Information on likely routes of exposure

Not available.

Potential acute health effects

| | |
|---------------------|---|
| Eye contact | : No known significant effects or critical hazards. |
| Inhalation | : No known significant effects or critical hazards. |
| Skin contact | : May cause an allergic skin reaction. |
| Ingestion | : No known significant effects or critical hazards. |

Symptoms related to the physical, chemical and toxicological characteristics

| | |
|---------------------|--|
| Eye contact | : No specific data. |
| Inhalation | : No specific data. |
| Skin contact | : Adverse symptoms may include the following: irritation redness |
| Ingestion | : No specific data. |

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

| | |
|------------------------------------|------------------|
| Potential immediate effects | : Not available. |
| Potential delayed effects | : Not available. |

Long term exposure

| | |
|------------------------------------|------------------|
| Potential immediate effects | : Not available. |
| Potential delayed effects | : Not available. |

SECTION 11: Toxicological information

Potential chronic health effects

Not available.

Conclusion/Summary [Product] : Not available.

General : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

Conclusion/Summary [Product] : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name

Titanium dioxide

Result

Acute - LC50 - Marine water

Fish - Mummichog - *Fundulus heteroclitus*

>1000000 µg/l [96 hours]

Effect: Mortality

Acute - LC50 - Fresh water

Crustaceans - Water flea - *Ceriodaphnia dubia* - Neonate

Age: <24 hours

3 mg/l [48 hours]

Effect: Mortality

ammonia, anhydrous

Acute - LC50 - Fresh water

Fish - Carp - *Hypophthalmichthys nobilis*

300 µg/l [96 hours]

Effect: Mortality

Acute - LC50 - Fresh water

Daphnia - Water flea - *Daphnia magna*

0.53 ppm [48 hours]

Effect: Mortality

Acute - EC50 - Marine water

Algae - Sea Lettuce - *Ulva fasciata* - Zoea

29.2 mg/l [96 hours]

Effect: Reproduction

Chronic - NOEC - Marine water

Fish - Sea bass - *Dicentrarchus labrax*

Weight: 131.3 g

0.204 mg/l [62 days]

Effect: Biochemistry

2-Butoxyethanol

Acute - LC50 - Marine water

Fish - Inland silverside - *Menidia beryllina*

Size: 40 to 100 mm

1250000 µg/l [96 hours]

Effect: Mortality

Acute - LC50 - Marine water

Crustaceans - Common shrimp, sand shrimp - *Crangon*

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Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

crangon
800000 µg/l [48 hours]
Effect: Mortality

Acute - LC50

OECD [Fish, Acute Toxicity Test]
Fish - *Brachydanio rerio*
0.9 mg/l [96 hours]

EC50

OECD [Alga, Growth Inhibition Test]
Aquatic plants - *Desmodesmodus subspicatus*
1.68 mg/l [72 hours]

Chronic - NOEC

OECD [Daphnia Magna Reproduction Test]
Daphnia - Daphnia
1 mg/l [21 days]

1,2-benzisothiazol-3(2H)-one

Acute - LC50 - Fresh water

OECD [Fish, Acute Toxicity Test]
Fish - Trout - *Onorhynchus Mykiss*
1.9 mg/l [96 hours]

Acute - EC50

OECD 202 [Daphnia sp. Acute Immobilization Test and Reproduction Test]
Daphnia - Daphnia - *Daphnia Magna*
3.7 mg/l [48 hours]

Acute - EC50 - Marine water

OECD 201 [Alga, Growth Inhibition Test]
Algae - Algae - *Skeletonema Costatum*
0.36 mg/l [72 hours]

Acute - NOEC - Marine water

OECD 201 [Alga, Growth Inhibition Test]
Algae - Algae - *Skeletonema Costatum*
0.15 mg/l [72 hours]

pyrithione zinc

Acute - EC50 - Marine water

Algae - Diatom - *Thalassiosira pseudonana*
0.51 µg/l [96 hours]
Effect: Population

Chronic - EC10 - Marine water

Algae - Diatom - *Thalassiosira pseudonana*
0.36 µg/l [96 hours]
Effect: Population

Chronic - NOEC - Fresh water

US EPA
Daphnia - Water flea - *Daphnia magna*
2.7 ppb [21 days]
Effect: Growth

Acute - EC50 - Fresh water

US EPA
Daphnia - Water flea - *Daphnia magna*
Age: <24 hours
8.25 ppb [48 hours]
Effect: Intoxication

Acute - LC50 - Fresh water

US EPA

SECTION 12: Ecological information

Fish - Fathead minnow - *Pimephales promelas*

Weight: 0.28 g

2.68 ppb [96 hours]

Effect: Mortality

2-methyl-2H-isothiazol-3-one

Acute - EC50 - Fresh water

US EPA

Daphnia - Water flea - *Daphnia magna*

Age: <24 hours

0.18 ppm [48 hours]

Effect: Intoxication

Acute - LC50 - Fresh water

US EPA

Fish - Rainbow trout,donaldson trout - *Oncorhynchus mykiss*

Weight: 0.73 g

0.07 ppm [96 hours]

Effect: Mortality

Conclusion/Summary [Product] : Not available.

12.2 Persistence and degradability

Product/ingredient name

Result

1,2-benzisothiazol-3(2H)-one

EU

24% [28 days]

Conclusion/Summary [Product] : Not available.

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|------------------------------|-------------------|------------|------------------|
| 1,2-benzisothiazol-3(2H)-one | - | - | Inherent |

12.3 Bioaccumulative potential

| Product/ingredient name | LogP _{ow} | BCF | Potential |
|-------------------------------|--------------------|-----------------|-----------|
| calcium bis(2-ethylhexanoate) | - | 2.96 | Low |
| 2-Butoxyethanol | 0.81 | - | Low |
| 1,2-benzisothiazol-3(2H)-one | - | 3.2 | Low |
| pyrithione zinc | 0.9 | 11 [OECD 305 E] | Low |

12.4 Mobility in soil

Soil/water partition coefficient

| Product/ingredient name | logK _{oc} | K _{oc} |
|-------------------------------|--------------------|-----------------|
| calcium bis(2-ethylhexanoate) | 1.8 | 66.4852 |
| 2-Butoxyethanol | 1.8 | 67.3685 |
| 1,2-benzisothiazol-3(2H)-one | 1.9 | 73.142 |
| 2-methyl-2H-isothiazol-3-one | 1.7 | 54.9187 |

Results of PMT and vPvM assessment

| Product/ingredient name | PMT | P | M | T | vPvM | vP | vM |
|---|-----|----|----|----|------|----|----|
| titanium dioxide | No | No | No | No | No | No | No |
| EO bis(benzotriazolyl) | No | No | No | No | No | No | No |
| phenylpropionat | | | | | | | |
| calcium bis(2-ethylhexanoate) | No | No | No | No | No | No | No |
| ammonia, anhydrous | No | No | No | No | No | No | No |
| 2-Butoxyethanol | No | No | No | No | No | No | No |
| Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl | No | No | No | No | No | No | No |

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| | | | | | | | |
|--|----|----|----|----|----|----|----|
| 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | | | | | | | |
| 1,2-benzisothiazol-3(2H)-one | No | No | No | No | No | No | No |
| pyrithione zinc | No | No | No | No | No | No | No |
| 2-methyl-2H-isothiazol-3-one | No | No | No | No | No | No | No |

Mobility : Not available.

Conclusion/Summary : The product does not meet the criteria to be considered as a PMT or vPvM.

12.5 Results of PBT and vPvB assessment

Regulation (EC) No. 1907/2006 [REACH]

| Product/ingredient name | PBT | P | B | T | vPvB | vP | vB |
|--|-----|-----|-----|-----|------|-----|-----|
| Titanium dioxide | No | No | No | No | No | No | No |
| EO bis(benzotriazolyl) phenylpropionat | No | N/A | N/A | No | N/A | N/A | N/A |
| calcium bis (2-ethylhexanoate) | No | N/A | No | Yes | No | N/A | No |
| ammonia, anhydrous | No | No | No | No | No | No | No |
| 2-Butoxyethanol | No | N/A | N/A | No | N/A | N/A | N/A |
| Reaction mass of Bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl | N/A | N/A | N/A | Yes | N/A | N/A | N/A |
| 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | | | | | | | |
| 1,2-benzisothiazol-3(2H)-one | No | N/A | No | No | No | N/A | No |
| pyrithione zinc | No | N/A | No | Yes | No | N/A | No |
| 2-methyl-2H-isothiazol-3-one | No | N/A | N/A | No | N/A | N/A | N/A |

Regulation (EC) No. 1272/2008 [CLP]

| Product/ingredient name | PBT | P | B | T | vPvB | vP | vB |
|--|-----|----|----|----|------|----|----|
| Titanium dioxide | No | No | No | No | No | No | No |
| EO bis(benzotriazolyl) phenylpropionat | No | No | No | No | No | No | No |
| calcium bis (2-ethylhexanoate) | No | No | No | No | No | No | No |
| ammonia, anhydrous | No | No | No | No | No | No | No |
| 2-Butoxyethanol | No | No | No | No | No | No | No |
| Reaction mass of Bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl | No | No | No | No | No | No | No |
| 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | | | | | | | |
| 1,2-benzisothiazol-3(2H)-one | No | No | No | No | No | No | No |
| pyrithione zinc | No | No | No | No | No | No | No |
| 2-methyl-2H-isothiazol-3-one | No | No | No | No | No | No | No |

Conclusion/Summary : The product does not meet the criteria to be considered as a PBT or vPvB.

Regulation (EC) No. 1272/2008 [CLP]

12.6 Endocrine disrupting properties

Not available.

Conclusion/Summary [Product] : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : The classification of the product may meet the criteria for a hazardous waste.

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

| | ADR/RID | ADN | IMDG | IATA |
|---------------------------------|----------------|---|----------------|----------------|
| 14.1 UN number or ID number | Not regulated. | 9006 | Not regulated. | Not regulated. |
| 14.2 UN proper shipping name | - | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. | - | - |
| 14.3 Transport hazard class(es) | - | 9 | - | - |
| 14.4 Packing group | - | - | - | - |
| 14.5 Environmental hazards | No. | Yes. | No. | No. |

Additional information

ADN : The product is only regulated as a dangerous good when transported in tank vessels.

14.6 Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Maritime transport in bulk according to IMO instruments : Not relevant/applicable due to nature of the product.

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

SECTION 15: Regulatory information

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

| Product/ingredient name | % | Designation [Usage] |
|--------------------------|-----|---------------------|
| TEKNOCLAD SILVER 2125-42 | ≥90 | 3 |

Labelling :

Other EU regulations

**Industrial emissions
(integrated pollution
prevention and control) -
Air** : Not listed

**Industrial emissions
(integrated pollution
prevention and control) -
Water** : Not listed

Explosive precursors : Not applicable.

Ozone depleting substances (EU 2024/590)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

15.2 Chemical safety assessment

: This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
N/A = Not available
PBT = Persistent, Bioaccumulative and Toxic

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SECTION 16: Other information

PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
SGG = Segregation Group
vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

| Classification | Justification |
|--------------------|--------------------|
| Skin Sens. 1, H317 | Calculation method |

Full text of abbreviated H statements

| | |
|--------|---|
| H221 | Flammable gas. |
| H280 | Contains gas under pressure; may explode if heated. |
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H311 | Toxic in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H330 | Fatal if inhaled. |
| H331 | Toxic if inhaled. |
| H351 | Suspected of causing cancer. |
| H360D | May damage the unborn child. |
| H361f | Suspected of damaging fertility. |
| H372 | Causes 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. |
| EUH071 | Corrosive to the respiratory tract. |

Full text of classifications [CLP/GHS]

| | |
|--------------------|---|
| Acute Tox. 2 | ACUTE TOXICITY - Category 2 |
| Acute Tox. 3 | ACUTE TOXICITY - Category 3 |
| Acute Tox. 4 | ACUTE TOXICITY - Category 4 |
| Aquatic Acute 1 | SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 |
| Aquatic Chronic 1 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 |
| Aquatic Chronic 2 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 |
| Carc. 2 | CARCINOGENICITY - Category 2 |
| Eye Dam. 1 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 |
| Eye Irrit. 2 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 |
| Flam. Gas 2 | FLAMMABLE GASES - Category 2 |
| Press. Gas (Comp.) | GASES UNDER PRESSURE - Compressed gas |
| Repr. 1B | REPRODUCTIVE TOXICITY - Category 1B |
| Repr. 2 | REPRODUCTIVE TOXICITY - Category 2 |
| Skin Corr. 1B | SKIN CORROSION/IRRITATION - Category 1B |
| Skin Irrit. 2 | SKIN CORROSION/IRRITATION - Category 2 |
| Skin Sens. 1 | SKIN SENSITISATION - Category 1 |
| Skin Sens. 1A | SKIN SENSITISATION - Category 1A |
| STOT RE 1 | SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1 |

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All variants

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SECTION 16: Other information

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfil the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.

