

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



SPEKTRA TOP DRY FACADE PAINT

| | | | |
|---------|----------------|-------------------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.0 | 29.01.2021 | MATOGA00_115 GB / EN | Date of first issue: 29.01.2021 |

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

1.1 Product identifier

Product code : Please see section 16 for detailed data

Trade name : SPEKTRA TOP DRY FACADE PAINT

Unique Formula Identifier (UFI) : JNV1-90WV-700F-NWW9

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

Use of the Substance/Mixture : SU19 Building and construction work
Professional and consumer use of coatings, Roller application or brushing, Non industrial spraying
PC9a Coatings and paints, thinners, paint removers

1.3 Details of the supplier of the safety data sheet

Company : Helios TBLUS d.o.o.
Količevo 65
1230 Domžale
Slovenia

Telephone Company : 00386 1 722 4383

Telefax Company : 1 722 4310

Responsible/issuing person : 00386 1 722 4383
productsafety@helios.si

1.4 Emergency telephone number

Call 999 for emergency medical attention

professionals only: National Poison Information Service (NPIS) 24h national number 0844 892 0111

consumer: National Health Service (NHS) 24h national number, England & Scotland 111

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

| | |
|--|--|
| Skin sensitisation, Category 1 | H317: May cause an allergic skin reaction. |
| Long-term (chronic) aquatic hazard, Category 3 | H412: Harmful to aquatic life with long lasting effects. |

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



SPEKTRA TOP DRY FACADE PAINT

| | | | |
|---------|----------------|-------------------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.0 | 29.01.2021 | MAT0GA00_115 GB / EN | Date of first issue: 29.01.2021 |

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning

Hazard statements : H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.

Prevention:

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P273 Avoid release to the environment.
P280 Wear protective gloves.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

octhillinone (ISO)
2-methylisothiazol-3(2H)-one

Additional Labelling

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



SPEKTRA TOP DRY FACADE PAINT

Version
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SDS Number:
MAT0GA00_115
GB / EN

Date of last issue: -
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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Waterborne paint

Components

| Chemical name | CAS-No. EC-No. Index-No. Registration number | Classification | Concentration (% w/w) |
|------------------------------|---|---|--------------------------|
| titanium dioxide | 13463-67-7 236-675-5 01-2119489379-17 | Carc. 2; H351 | >= 20 - < 30 |
| crystalite | 14464-46-1 238-455-4 | STOT RE 1; H372 | >= 10 - < 20 |
| aminofunctional polysiloxane | - | Skin Irrit. 2; H315 Eye Irrit. 2; H319 | >= 1 - < 10 |
| Zinc pyridinethione | 13463-41-7 236-671-3 | Acute Tox. 3; H301 Acute Tox. 3; H331 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic aquatic toxicity): 10 | >= 0,025 - < 0,1 |
| octhlinone (ISO) | 26530-20-1 247-761-7 613-112-00-5 | Acute Tox. 4; H302 Acute Tox. 3; H331 Acute Tox. 3; H311 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 specific concentration limit Skin Sens. 1; H317 >= 0,05 % | >= 0,0025 - < 0,025 |
| 2-methylisothiazol-3(2H)-one | 2682-20-4 220-239-6 | Acute Tox. 3; H301 Acute Tox. 2; H330 | >= 0,0025 - < 0,025 |

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



SPEKTRA TOP DRY FACADE PAINT

Version 1.0 Revision Date: 29.01.2021 SDS Number: MAT0GA00_115
GB / EN Date of last issue: - Date of first issue: 29.01.2021

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|--|----------------------------------|--|--|
| | 613-326-00-9 01-2120764690-50 | Acute Tox. 3; H311 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 EUH071 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 1 specific concentration limit Skin Sens. 1A; H317 >= 0,0015 % | |
|--|----------------------------------|--|--|

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Do not leave the victim unattended.
- If inhaled : If breathed in, move person into fresh air.
- In case of skin contact : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes.
- In case of eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/ attention.
- If swallowed : Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

- Risks : May cause an allergic skin reaction.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



SPEKTRA TOP DRY FACADE PAINT

| | | | |
|---------|----------------|-------------------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.0 | 29.01.2021 | MAT0GA00_115 GB / EN | Date of first issue: 29.01.2021 |

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products : No hazardous combustion products are known

5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : The product itself does not burn.
Standard procedure for chemical fires.
Use a water spray to cool fully closed containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Avoid contact with skin and eyes.
Do not flush into surface water or sanitary sewer system.
Prevent further leakage or spillage if safe to do so.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal considerations see section 13., For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : No special technical protective measures required.
For personal protection see section 8.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



SPEKTRA TOP DRY FACADE PAINT

Version 1.0 Revision Date: 29.01.2021 SDS Number: MAT0GA00_115 GB / EN Date of last issue: - Date of first issue: 29.01.2021

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : When using do not eat, drink or smoke. Wash thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Containers which are opened must be carefully resealed and kept upright to prevent leakage. Perishable if frozen. To maintain product quality, do not store in heat or direct sunlight.

Advice on common storage : No materials to be especially mentioned.

Further information on storage stability : Protect from frost.

7.3 Specific end use(s)

Specific use(s) : Consult the technical guidelines for the use of this substance/mixture.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

| Components | CAS-No. | Value type (Form of exposure) | Control parameters | Basis |
|------------------|---|-------------------------------|--------------------------------|------------|
| titanium dioxide | 13463-67-7 | TWA (inhalable dust) | 10 mg/m ³ | GB EH40 |
| | | TWA (Respirable dust) | 4 mg/m ³ | GB EH40 |
| cristobalite | 14464-46-1 | TWA (Respirable dust) | 0,1 mg/m ³ | 2004/37/EC |
| | Further information: Carcinogens or mutagens | | | |
| | | TWA (Respirable fraction) | 0,1 mg/m ³ (Silica) | GB EH40 |
| | Further information: Capable of causing cancer and/or heritable genetic damage. | | | |

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name | End Use | Exposure routes | Potential health effects | Value |
|------------------|-----------|-----------------|----------------------------|----------------------|
| titanium dioxide | Workers | Inhalation | Long-term local effects | 10 mg/m ³ |
| | Consumers | Oral | Long-term systemic effects | 700 mg/kg bw/day |

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



SPEKTRA TOP DRY FACADE PAINT

Version 1.0 Revision Date: 29.01.2021 SDS Number: MAT0GA00_115
GB / EN Date of last issue: - Date of first issue: 29.01.2021

| Substance name | Environmental Compartment | Value |
|------------------|---------------------------|------------------------------|
| titanium dioxide | Soil | 100 mg/kg dry weight (d.w.) |
| | Marine water | 0,0184 mg/l |
| | Fresh water | 0,184 mg/l |
| | Marine sediment | 100 mg/kg dry weight (d.w.) |
| | Fresh water sediment | 1000 mg/kg dry weight (d.w.) |
| | Sewage treatment plant | 100 mg/l |
| | Intermittent use/release | 0,193 mg/l |

8.2 Exposure controls

Personal protective equipment

Eye protection : Goggles

Hand protection

Material : Nitrile rubber
Glove thickness : 0,2 mm
Protective index : Class 3

Remarks : Wear suitable gloves.

Skin and body protection

: Long sleeved clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection

: No personal respiratory protective equipment normally required.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : liquid

Colour : in accordance with the product description

Odour : No information available.

Odour Threshold : No data available

Melting point/freezing point : 0,0 °C
(calculation method (principal components, lowest value))

Boiling point/boiling range : 100 °C (calculation method (principal components, lowest value))

Flammability : Not applicable

Flash point : Not applicable

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



SPEKTRA TOP DRY FACADE PAINT

| | | | |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.0 | 29.01.2021 | MAT0GA00_115 | Date of first issue: 29.01.2021 |
| | | GB / EN | |

| | | |
|--|---|---|
| pH | : | No data available |
| Viscosity | : | |
| Viscosity, kinematic | : | > 20,5 mm ² /s (40 °C) |
| Solubility(ies) | : | |
| Water solubility | : | completely miscible |
| Solubility in other solvents | : | No data available |
| Partition coefficient: n-octanol/water | : | No data available |
| Relative density | : | 242,66 (calculation method (principal components, highest value)) |
| Density | : | 1,35 - 1,40 g/cm ³ |

9.2 Other information

| | | |
|-----|---|---------------------------------|
| VOC | : | (Directive 2004/42/EC) 1 g/l |
|-----|---|---------------------------------|

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

| | | |
|---------------------|---|-------------------|
| Hazardous reactions | : | No data available |
|---------------------|---|-------------------|

10.4 Conditions to avoid

| | | |
|---------------------|---|--|
| Conditions to avoid | : | Protect from frost, heat and sunlight. |
|---------------------|---|--|

10.5 Incompatible materials

| | | |
|--------------------|---|--|
| Materials to avoid | : | Incompatible with oxidizing agents. Incompatible with strong acids and bases. |
|--------------------|---|--|

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



SPEKTRA TOP DRY FACADE PAINT

| | | | |
|---------|----------------|-------------------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.0 | 29.01.2021 | MAT0GA00_115 GB / EN | Date of first issue: 29.01.2021 |

SECTION 11: Toxicological information

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

Acute toxicity

Not classified based on available information.

Components:

Zinc pyridinethione:

Acute oral toxicity : Assessment: The component/mixture is toxic after single ingestion.

LD50 Oral (Rat): > 177 mg/kg

Acute inhalation toxicity : Test atmosphere: vapour
Assessment: The component/mixture is toxic after short term inhalation.

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg

octhilinone (ISO):

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after single ingestion.

LD50 Oral (Rat): >= 318 mg/kg

Acute inhalation toxicity : Test atmosphere: vapour
Assessment: The component/mixture is toxic after short term inhalation.

Acute dermal toxicity : Assessment: The component/mixture is toxic after single contact with skin.

LD50 (Rabbit): >= 311 mg/kg

2-methylisothiazol-3(2H)-one:

Acute oral toxicity : Assessment: The component/mixture is toxic after single ingestion.

Acute inhalation toxicity : Test atmosphere: vapour
Assessment: The component/mixture is highly toxic after short term inhalation.

Acute dermal toxicity : Assessment: The component/mixture is toxic after single contact with skin.

Skin corrosion/irritation

Not classified based on available information.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



SPEKTRA TOP DRY FACADE PAINT

Version
1.0

Revision Date:
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SDS Number:
MAT0GA00_115
GB / EN

Date of last issue: -
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Components:

aminofunctional polysiloxane:

Result : irritating

octhilinone (ISO):

Result : Corrosive after 3 minutes to 1 hour of exposure

2-methylisothiazol-3(2H)-one:

Result : Corrosive after 3 minutes to 1 hour of exposure

Serious eye damage/eye irritation

Not classified based on available information.

Components:

aminofunctional polysiloxane:

Result : Eye irritation

Zinc pyridinethione:

Result : Corrosive

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Components:

octhilinone (ISO):

Result : Probability or evidence of skin sensitisation in humans

2-methylisothiazol-3(2H)-one:

Result : Probability or evidence of skin sensitisation in humans

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



SPEKTRA TOP DRY FACADE PAINT

| | | | |
|---------|----------------|-------------------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.0 | 29.01.2021 | MAT0GA00_115 GB / EN | Date of first issue: 29.01.2021 |

STOT - repeated exposure

Not classified based on available information.

Product:

Exposure routes : Inhalation
Remarks : These substance(s) are inextricably bound in the product and therefore do not contribute to a dust inhalation hazard.

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

Components:

crystalite:

Assessment : Causes damage to organs through prolonged or repeated exposure.

Aspiration toxicity

Not classified based on available information.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12: Ecological information

12.1 Toxicity

Components:

Zinc pyridinethione:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): $\geq 0,0026$ mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): $\geq 0,0028$ mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): $\geq 0,028$ mg/l
Exposure time: 120 h

M-Factor (Acute aquatic toxicity) : 100

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



SPEKTRA TOP DRY FACADE PAINT

| | | | |
|---------|----------------|-------------------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.0 | 29.01.2021 | MAT0GA00_115 GB / EN | Date of first issue: 29.01.2021 |

M-Factor (Chronic aquatic toxicity) : 10

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

octhilinone (ISO):

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): $\geq 0,047$ mg/l
Exposure time: 96 h

LC50 (Lepomis macrochirus (Bluegill sunfish)): $\geq 0,18$ mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): $\geq 0,32$ mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (algae): $\geq 0,031$ mg/l
Exposure time: 72 h

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

2-methylisothiazol-3(2H)-one:

M-Factor (Acute aquatic toxicity) : 10

M-Factor (Chronic aquatic toxicity) : 1

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

12.2 Persistence and degradability

Components:

2-methylisothiazol-3(2H)-one:

Biodegradability : Result: Biodegradable

12.3 Bioaccumulative potential

No data available

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



SPEKTRA TOP DRY FACADE PAINT

| | | | |
|---------|----------------|-------------------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.0 | 29.01.2021 | MAT0GA00_115 GB / EN | Date of first issue: 29.01.2021 |

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Do not release the product to the aquatic environment

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

Waste Code : 08 01 20, aqueous suspensions containing paint or varnish other than those mentioned in 08 01 19

SECTION 14: Transport information

14.1 UN number or ID number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



SPEKTRA TOP DRY FACADE PAINT

| | | | |
|---------|----------------|-------------------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.0 | 29.01.2021 | MAT0GA00_115 GB / EN | Date of first issue: 29.01.2021 |

14.6 Special precautions for user

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Conditions of restriction for the following entries should be considered: Number on list 3

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. : Not applicable

Volatile organic compounds : Directive 2004/42/EC
Volatile organic compounds (VOC) content: 1 g/l

Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information

Full text of H-Statements

H301 : Toxic if swallowed.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



SPEKTRA TOP DRY FACADE PAINT

| | | | |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.0 | 29.01.2021 | MAT0GA00_115 | Date of first issue: 29.01.2021 |
| | | GB / EN | |

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 if inhaled.
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.
EUH071 : Corrosive to the respiratory tract.

Full text of other abbreviations

Acute Tox. : Acute toxicity
Aquatic Acute : Short-term (acute) aquatic hazard
Aquatic Chronic : Long-term (chronic) aquatic hazard
Carc. : Carcinogenicity
Eye Dam. : Serious eye damage
Eye Irrit. : Eye irritation
Skin Corr. : Skin corrosion
Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitisation
STOT RE : Specific target organ toxicity - repeated exposure
2004/37/EC : Europe. Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work
GB EH40 : UK. EH40 WEL - Workplace Exposure Limits
2004/37/EC / TWA : Long term exposure limit
GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



SPEKTRA TOP DRY FACADE PAINT

| | | | |
|---------|----------------|-------------------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.0 | 29.01.2021 | MAT0GA00_115 GB / EN | Date of first issue: 29.01.2021 |

fied; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:

| | |
|-------------------|------|
| Skin Sens. 1 | H317 |
| Aquatic Chronic 3 | H412 |

Classification procedure:

| |
|--------------------|
| Calculation method |
| Calculation method |

Material codes (bulk) for which the SDS is valid 401708;401709;

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