

# SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)

## FPM 202 lustre cobalt blue

Version: 5

Revision date: 30/08/2018



GLAZURA

Page 1 of 19

Print date: 30/08/2018

### SECTION 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY/UNDERTAKING.

#### 1.1 Product identifier.

Product Name: **FPM 202 lustre cobalt blue**

#### 1.2 Relevant identified uses of the mixture and uses advised against.

Ceramic use.

#### Uses advised against:

Uses other than those recommended.

#### 1.3 Details of the supplier of the safety data sheet.

Company: **GLAZURA, S.R.O.**  
Address: Roudnická 122  
City: 413 01 Dobruška  
Telephone: +420 416 809 711  
Fax: +420 416 809 814, +420 416 809 733  
E-mail: info@glazura.cz

#### 1.4 Emergency telephone number: (Available 24 hours)

### SECTION 2: HAZARDS IDENTIFICATION.

#### 2.1 Classification of the mixture.

In accordance with Regulation (EU) No 1272/2008:

Aquatic Chronic 2 : Toxic to aquatic life with long lasting effects.

Eye Irrit. 2 : Causes serious eye irritation.

Flam. Liq. 3 : Flammable liquid and vapour.

Skin Irrit. 2 : Causes skin irritation.

Skin Sens. 1 : May cause an allergic skin reaction.

#### 2.2 Label elements.

**Labelling in accordance with Regulation (EU) No 1272/2008:** Pictograms:



Signal Word:

#### Warning

H statements:

|      |  |
|------|--|
| H226 | Flammable liquid and vapour.                     |
| H315 | Causes skin irritation.                          |
| H317 | May cause an allergic skin reaction.             |
| H319 | Causes serious eye irritation.                   |
| H411 | Toxic to aquatic life with long lasting effects. |

P statements:

|      |  |
|------|--|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray.  |
| P273 | Avoid release to the environment.  |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection.                     |
| P321 | Specific treatment (see ... on this label).  |

-Continued on next page.-

# SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)

## Z2250040L Lustre

Version: 5

Revision date: 30/08/2018



GLAZURA

Page 2 of 19

Print date: 30/08/2018

P370+P378 In case of fire: Use... to extinguish.  
P403+P235 Store in a well-ventilated place. Keep cool.  
P501 Dispose of contents/container to ...

EUH statements:

EUH208 Contains Linalool. May produce an allergic reaction.

Contains:

Dipentene Rosin  
delta-3-Carene  
Rosemary oil N. Afr.  
Titanium resinate  
Eucalyptus globulus oil

### 2.3 Other hazards.

The product may have the following additional risks:

No other hazardous known as mentioned.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS.

### 3.1 Substances.

Not Applicable.

### 3.2 Mixtures.

Substances posing a danger to health or the environment in accordance with the Regulation (EC) No. 1272/2008, assigned a Community exposure limit in the workplace, and classified as PBT/vPvB or included in the Candidate List:

| Identifiers   | Name   | Concentrate | (*)Classification - Regulation (EC) No 1272/2008                                      |                              |
|---|--|-------------|---|------------------------------|
|   |  |             | Classification  | specific concentration limit |
| Index No: 650-015-00-7<br>CAS No: 8050-09-7<br>EC No: 232-475-7<br>Registration No:<br>012119480418-32-XXXX | [1] Rosin                                    | >=25% <50%  | Skin Sens. 1, H317  | -                            |
| CAS No: 67874-71-9<br>EC No: 267-499-7  | BISMUTH TRIS (2-ETHYLHEXANOATE)              | >=10% <25%  | Eye Irrit. 2, H319 - Skin Irrit. 2, H315 - STOT SE 3, H335                            | -                            |
| CAS No: 68956-56-9<br>EC No: 273-309-3  | Hydrocarbons, terpene processing by-products | >=10% <25%  | Asp. Tox. 1, H304 - Flam. Liq. 3, H226 - Skin Irrit. 2, H315                          | -                            |
| CAS No: 99-86-5 EC No: 202-795-1  | alpha-Terpinene                              | >=5% <10%   | Acute Tox. 4, H302 - Aquatic Chronic 2, H411 - Asp. Tox. 1, H304 - Flam. Liq. 3, H226 | -                            |

-Continued on next page.-

# SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)

## FPM 202 lustre cobalt blue

Version: 5

Revision date: 30/08/2018



GLAZURA

Page 3 of 19

Print date: 30/08/2018

|   |   |            |  |   |
|---|---|------------|--|---|
| CAS No: 84625-32-1<br>EC No: 283-406-2  | Eucalyptus globulus oil                     | >=5% <10%  | Aquatic Chronic 2, H411 - Asp. Tox. 1, H304 - Flam. Liq. 3, H226 - Skin Irrit. 2, H315 - Skin Sens. 1, H317  | - |
| Index No: 601029007<br>CAS No: 138-86-3 EC No: 205-341-0                          | Dipentene                                   | >=2.5% <5% | Aquatic Acute 1, H400 (M=1) - Aquatic Chronic 1, H410 (M=1) - Flam. Liq. 1, H224 - Skin Irrit. 2, H315 - Skin Sens. 1, H317                          | - |
| CAS No: 586-62-9 EC No: 209-578-0<br>Registration No: 012119982325-32-xxxx        | p-mentha-1,4(8)-diene                       | >=2.5% <5% | Asp. Tox. 1, H304 - Eye Irrit. 2, H319 - Flam. Liq. 3, H226 - Skin Irrit. 2, H315  | - |
| CAS No: 13466-78-9<br>EC No: 236-719-3<br>Registration No: 012119520252-55-XXXX   | [1] delta-3-Carene                          | >=2.5% <5% | Asp. Tox. 1, H304 - Flam. Liq. 3, H226 - Skin Irrit. 2, H315 - Skin Sens. 1, H317  | - |
| CAS No: 2170190-22-2<br>EC No: 945-707-3<br>Registration No: 022120703916-53-0000 | Titanium resinate                           | >=2.5% <5% | Eye Irrit. 2, H319 - Flam. Liq. 3, H226 - Skin Irrit. 2, H315 - Skin Sens. 1, H317   | - |
| CAS No: 8052-42-4<br>EC No: 232-490-9<br>Registration No: 012119480172-44-XXXX    | [1] Asphalt                                 | >=2.5% <5% | -  | - |
| CAS No: 13466-78-9<br>EC No: 236-719-3<br>Registration No: 012119520252-55-XXXX   | [1] 3,7,7-trimethylbicyclo[4.1.0]hept-3-ene | >=1% <2.5% | Aquatic Chronic 2, H411 - Asp. Tox. 1, H304 - Flam. Liq. 3, H226 - Skin Irrit. 2, H315   | - |
| CAS No: 8000-25-7 EC No: 283-291-9  | Rosemary oil N. Afr.                        | >=1% <2.5% | Acute Tox. 4, H332 - Aquatic Acute 1, H400 - Aquatic Chronic 1, H410 - Asp. Tox. 1, H304 - Flam. Liq. 3, H226 - Skin Sens. 1, H317 - STOT SE 2, H371 | - |

-Continued on next page.-

# SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)

## Z2250040L Lustre

Version: 5

Revision date: 30/08/2018



GLAZURA

Page 4 of 19

Print date: 30/08/2018

|  |                                       |            |  |                           |
|--|---------------------------------------|------------|--|---------------------------|
| CAS No: 99-87-6<br>EC No: 202-796-7<br>Registration No:<br>012119881770-31-XXXX                            | p-Cymene                              | >=1% <2.5% | Aquatic Chronic 2, H411 - Asp. Tox. 1, H304 - Flam. Liq. 3, H226 | -                         |
| Index No: 606-010-00-7<br>CAS No: 108-94-1<br>EC No: 203-631-1<br>Registration No:<br>012119453616-35-XXXX | [1] cyclohexanone                     | >=0.1% <1% | Acute Tox. 4 *, H332 - Flam. Liq. 3, H226                        | -                         |
| Index No: 601-025-00-5<br>CAS No: 108-67-8<br>EC No: 203-604-4<br>Registration No:<br>012119463878-19-XXXX | [1] 1,3,5-trimethylbenzene,mesitylene | >=0.1% <1% | Aquatic Chronic 2, H411 - Flam. Liq. 3, H226 - STOT SE 3, H335   | STOT SE 3, H335: C ≥ 25 % |
| CAS No: 78-70-6<br>EC No: 201-134-4<br>Registration No:<br>012119474016-42-XXXX                            | Linalool                              | >=0.1% <1% | Eye Irrit. 2, H319 - Skin Irrit. 2, H315 - Skin Sens. 1, H317    | -                         |
| CAS No: 76-22-2<br>EC No: 200-945-0<br>Registration No:<br>012119966156-31-XXXX                            | [1] Camphor                           | < 0.1%     | Acute Tox. 4, H332 - Flam. Sol. 2, H228 - STOT SE 2, H371        | -                         |

(\*)The complete text of the H phrases is given in section 16 of this Safety Data Sheet.

\* See Regulation (EC) No. 1272/2008, Annex VI, section 1.2.

[1] Substance with a Community workplace exposure limit (see section 8.1).

### SECTION 4: FIRST AID MEASURES.

**IRRITANT PREPARATION.** Its repeated or prolonged contact with the skin or mucous membranes can cause irritant symptoms such as reddening of the skin, blisters, or dermatitis. Some of the symptoms may not be immediate. They can cause allergic reactions on the skin.

#### 4.1 Description of first aid measures.

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

#### Inhalation.

Take the victim into open air; keep them warm and calm. If breathing is irregular or stops, perform artificial respiration.

#### Eye contact.

Remove contact lenses, if present and if it is easy to do. Wash eyes with plenty of clean and cool water for at least 10 minutes while pulling eyelids up, and seek medical assistance. Don't let the person to rub the affected eye.

#### Skin contact.

Remove contaminated clothing. Wash skin vigorously with water and soap or a suitable skin cleaner. NEVER use solvents or thinners.

#### Ingestion.

If accidentally ingested, seek immediate medical attention. Keep calm. NEVER induce vomiting.

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

Irritant Product, repeated or prolonged contact with skin or mucous membranes can cause redness, blisters or dermatitis, inhalation of spray mist or particles in suspension may cause irritation of the respiratory tract, some symptoms may not be immediate. Can cause allergic reactions.

-Continued on next page.-

# SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)

## FPM 202 lustre cobalt blue

Version: 5

Revision date: 30/08/2018



GLAZURA

Page 5 of 19

Print date: 30/08/2018

It may cause an allergic reaction, dermatitis, redness or inflammation of the skin.

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

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious. Cover the affected area with a dry sterile bandage. Protect the affected area from pressure or friction.

## SECTION 5: FIREFIGHTING MEASURES.

Flammable product, the necessary prevention measures should be taken in order to avoid risks, In case of fire, the following measures are recommended:

### 5.1 Extinguishing media.

#### Suitable extinguishing media:

Extinguisher powder or CO<sub>2</sub>. In case of more serious fires, also alcohol-resistant foam and water spray.

#### Unsuitable extinguishing media:

Do not use a direct stream of water to extinguish. In the presence of electrical voltage, you cannot use water or foam as extinguishing media.

### 5.2 Special hazards arising from the mixture.

#### Special risks.

Fire can cause thick, black smoke. As a result of thermal decomposition, dangerous products can form: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products can be harmful to your health.

During a fire and depending on its magnitude the following may occur:

- Flammable vapors or gases.

### 5.3 Advice for firefighters.

Use water to cool tanks, cisterns, or containers close to the heat source or fire. Take wind direction into account. Prevent the products used to fight the fire from going into drains, sewers, or waterways. Product residues and extinguishing media may contaminate the aquatic environment. Follow the instructions given in the emergency or fire evacuation plan or plans if available.

#### Fire protection equipment.

According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks, and boots. During extinction and depending on the magnitude and proximity to the fire, additional protective equipment such as chemical protection gloves, heat-reflecting suits or gas-tight suits may be required.

## SECTION 6: ACCIDENTAL RELEASE MEASURES.

### 6.1 Personal precautions, protective equipment and emergency procedures.

Eliminate possible ignition points and ventilate the area. No smoking. Avoid breathing fumes. For exposure control and individual protection measures, see section 8.

### 6.2 Environmental precautions.

Product dangerous for the environment, in case of large spills or if the product contaminates lakes, rivers, or sewers, inform the responsible authorities according to local legislation. Prevent the contamination of drains, surface or subterranean waters, and the ground.

### 6.3 Methods and material for containment and cleaning up.

Pick up the spill with non-combustible absorbent materials (soil, sand, vermiculite, diatomite, etc.). Pour the product and the absorbent in an appropriate container. The contaminated area should be immediately cleaned with an appropriate decontaminator. Pour the decontaminator on the remains in an opened container and let it act various days until no further reaction is produced.

### 6.4 Reference to other sections.

For exposure control and individual protection measures, see section 8.

For later elimination of waste, follow the recommendations under section 13.

-Continued on next page.-

# SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)

## Z2250040L Lustre

Version: 5

Revision date: 30/08/2018



GLAZURA

Page 6 of 19

Print date: 30/08/2018

### SECTION 7: HANDLING AND STORAGE.

#### 7.1 Precautions for safe handling.

The fumes are heavier than air and can spread across the ground. They can form explosive mixtures with air. Prevent the creation of flammable or explosive fume concentrations in the air; prevent fume concentrations above work exposure limits. The product must only be used in areas where all unprotected flames and other ignition points have been eliminated. Electrical equipment has to be protected according to applicable standards.

The product can be electrostatically charged: always use earth grounds when transferring the product. Operators must use antistatic footwear and clothing, and floors must be conductors.

Keep the container tightly closed and isolated from heat sources, sparks, and fire. Do not use tools that can cause sparks. For personal protection, see section 8.

In the application area, smoking, eating, and drinking must be prohibited. Follow legislation on occupational health and safety.

Never use pressure to empty the containers. They are not pressure-resistant containers. Keep the product in containers made of a material identical to the original.

#### 7.2 Conditions for safe storage, including any incompatibilities.

Store according to local legislation. Observe indications on the label. Store the containers between 5 and 35° C, in a dry and well-ventilated place, far from sources of heat and direct solar light. Keep far away from ignition points. Keep away from oxidising agents and from highly acidic or alkaline materials. Do not smoke. Prevent the entry of non-authorized persons. Once the containers are open, they must be carefully closed and placed vertically to prevent spills.

Classification and threshold amount of storage in accordance with Annex I to Directive 2012/18/EU (SEVESO III):

| Code | Description  | Qualifvina quantity (tonnes) for the application of |                         |
|------|--|---|-------------------------|
|      |  | Lower-tier requirements                             | Upper-tier requirements |
| E2   | ENVIRONMENTAL HAZARDS - Hazardous to the Aquatic Environment in Category Chronic 2 | 200   | 500                     |

#### 7.3 Specific end use(s).

Not available.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.

#### 8.1 Control parameters.

Work exposure limit for:

| Name                                    | CAS No.    | Country  | Limit value | ppm | mg/m <sup>3</sup> |
|---|------------|--|-------------|-----|-------------------|
| Rosin                                   | 8050-09-7  | United Kingdom [1]   | Eight hours |     | 0,05              |
|   |            |  | Short term  |     | 0,15              |
| delta-3-Carene                          | 13466-78-9 | Koninkrijk België/Royaume de Belgique/Königreich Belgien [2] | Eight hours | 20  |                   |
|   |            |  | Short term  |     |                   |
| Asphalt                                 | 8052-42-4  | Koninkrijk België/Royaume de Belgique/Königreich Belgien [2] | Eight hours |     | 5                 |
|   |            |  | Short term  |     |                   |
|   |            | United Kingdom [1]   | Eight hours |     | 5                 |
|   |            |  | Short term  |     | 10                |
| 3,7,7-trimethylbicyclo[4.1.0]hept-3-ene | 13466-78-9 | Koninkrijk   | Eight hours | 20  |                   |

-Continued on next page.-

# SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)

## FPM 202 lustre cobalt blue

Version: 5

Revision date: 30/08/2018



GLAZURA

Page 7 of 19

Print date: 30/08/2018

|                                   |                    |  |                    |           |             |
|-----------------------------------|--------------------|--|--------------------|-----------|-------------|
|                                   |                    | elgi /Royaume de Belgique/Koninkrijk België              | <b>Short term</b>  |           |             |
| cyclohexanone                     | 108-94-1           | Koninkrijk België /Royaume de Belgique/Koninkrijk België | <b>Eight hours</b> | 10        | 40,8        |
|                                   |                    | Koninkrijk België /Royaume de Belgique/Koninkrijk België | <b>Short term</b>  | 20        | 81,6        |
|                                   |                    | European Union   | <b>Eight hours</b> | 10 (skin) | 40,8 (skin) |
|                                   |                    |  | <b>Short term</b>  | 20 (skin) | 81,6 (skin) |
|                                   |                    | United Kingdom   | <b>Eight hours</b> | 10        | 41          |
|                                   |                    |  | <b>Short term</b>  | 20        | 82          |
|                                   |                    | United States (Cal/SHA)                                  | <b>Eight hours</b> | 25        |             |
|                                   |                    |  | <b>Short term</b>  |           |             |
|                                   |                    | United States (NI SH)                                    | <b>Eight hours</b> | 25        |             |
|                                   |                    |  | <b>Short term</b>  |           |             |
| United States (SHA)               | <b>Eight hours</b> | 50   | 200                |           |             |
|                                   | <b>Short term</b>  |  |                    |           |             |
| 1,3,5-trimethylbenzene,mesitylene | 108-67-8           | Koninkrijk België /Royaume de Belgique/Koninkrijk België | <b>Eight hours</b> | 20        | 100         |
|                                   |                    | Koninkrijk België /Royaume de Belgique/Koninkrijk België | <b>Short term</b>  |           |             |
|                                   |                    | European Union   | <b>Eight hours</b> | 20        | 100         |
| Camphor                           | 76-22-2            | Koninkrijk België /Royaume de Belgique/Koninkrijk België | <b>Eight hours</b> | 2         | 12          |
|                                   |                    | Koninkrijk België /Royaume de Belgique/Koninkrijk België | <b>Short term</b>  | 3         | 19          |
|                                   |                    | United States (Cal/SHA)                                  | <b>Eight hours</b> |           | 2           |
|                                   |                    |  | <b>Short term</b>  |           |             |
|                                   |                    | United States (NI SH)                                    | <b>Eight hours</b> |           | 2           |
|                                   |                    |  | <b>Short term</b>  |           |             |
|                                   |                    | United States (SHA)                                      | <b>Eight hours</b> |           | 2           |
|                                   |                    |  | <b>Short term</b>  |           |             |

- 1 According Limit value (I EL) list in 2nd Indicative occupational Exposure adopted by Health and Safety Executive.
- 2 According "valeurs Limites d'Exposition Professionnelle" (LEP) or "grenswaarden voor beroepsmatige blootstelling" (W) list adopted by Belgian Ministry of Employment and Labour.
- 3 According both Indicative occupational Exposure Limits (IELs) and Indicative occupational Exposure Limits (I ELs) adopted by Scientific Committee for occupational Exposure Limits to Chemical Agents (SC EL).
- 4 California Division of occupational Safety and Health (Cal/SHA) Permissible Exposure Limits (PELs).
- 5 National Institute for occupational Safety and Health. NI SH Recommendations for occupational safety and health, Compendium of Policy Documents and Statements, January, 1992, DHHS (NI SH) Publication No. 92-100.
- 6 Occupational Safety and Health Administration, United States Department of Labor. Permissible Exposure limits (PELs), California Division of occupational Safety and Health (Cal/SHA) Permissible Exposure Limits (PELs). The product does NOT contain substances with biological Limit values. Concentration levels DNEL/DMEL:

| Name | DNEL/DMEL | Type | Value |
|------|-----------|------|-------|
|------|-----------|------|-------|

-Continued on next page.-

# SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)

## Z2250040L Lustre

Version: 5

Revision date: 30/08/2018



GLAZURA

Page 8 of 19

Print date: 30/08/2018

|   |                              |  |                              |
|---|------------------------------|--|------------------------------|
| Rosin<br>CAS No: 8050-09-7<br>EC No: 232-475-7                                    | DNEL<br>(Workers)            | Inhalation, Long-term, Systemic effects        | 176<br>(mg/m <sup>3</sup> )  |
| delta-3-Carene CAS<br>No: 13466-78-9<br>EC No: 236-719-3                          | DNEL<br>(Workers)            | Inhalation, Long-term, Systemic effects        | 5,98<br>(mg/m <sup>3</sup> ) |
| Asphalt<br>CAS No: 8052-42-4<br>EC No: 232-490-9                                  | DNEL<br>(Workers)            | Inhalation, Long-term, Local effects           | 2,9<br>(mg/m <sup>3</sup> )  |
| 3,7,7-trimethylbicyclo[4.1.0]hept-3-ene<br>CAS No: 13466-78-9<br>EC No: 236-719-3 | DNEL<br>(Workers)            | Inhalation, Long-term, Systemic effects        | 5,98<br>(mg/m <sup>3</sup> ) |
| cyclohexanone CAS<br>No: 108-94-1<br>EC No: 203-631-1                             | DNEL<br>(Workers)            | Inhalation, Long-term, Local effects           | 40<br>(mg/m <sup>3</sup> )   |
|   | DNEL (General<br>population) | Inhalation, Long-term, Local effects           | 20<br>(mg/m <sup>3</sup> )   |
|   | DNEL<br>(Workers)            | Inhalation, Long-term, Systemic effects        | 40<br>(mg/m <sup>3</sup> )   |
|   | DNEL (General<br>population) | Inhalation, Long-term, Systemic effects        | 10<br>(mg/m <sup>3</sup> )   |
|   | DNEL<br>(Workers)            | Inhalation, Acute, Systemic effects            | 80<br>(mg/m <sup>3</sup> )   |
|   | DNEL (General<br>population) | Inhalation, Acute, Systemic effects            | 20<br>(mg/m <sup>3</sup> )   |
|   | DNEL<br>(Workers)            | Inhalation, Acute, Local effects               | 80<br>(mg/m <sup>3</sup> )   |
|   | DNEL (General<br>population) | Inhalation, Acute, Local effects               | 40<br>(mg/m <sup>3</sup> )   |
|   | DNEL<br>(Workers)            | Dermal, Long-term, Systemic effects            | 4 (mg/kg<br>bw/day)          |
|   | DNEL (General<br>population) | Dermal, Long-term, Systemic effects            | 1 (mg/kg<br>bw/day)          |
|   | DNEL<br>(Workers)            | Dermal, Acute, Systemic effects                | 4 (mg/kg<br>bw/day)          |
|   | DNEL (General<br>population) | Dermal, Acute, Systemic effects                | 1 (mg/kg<br>bw/day)          |
|   | DNEL (General<br>population) | Oral, Long-term and acute, Systemic<br>effects | 1,5 (mg/kg<br>bw/day)        |
| 1,3,5-trimethylbenzene,mesitylene<br>CAS No: 108-67-8<br>EC No: 203-604-4         | DNEL<br>(Workers)            | Inhalation, Long-term, Local effects           | 100<br>(mg/m <sup>3</sup> )  |
|   | DNEL<br>(Workers)            | Inhalation, Long-term, Systemic effects        | 100<br>(mg/m <sup>3</sup> )  |

DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.

DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.

Concentration levels PNEC:

| Name  | Details               | Value            |
|---|-----------------------|------------------|
| cyclohexanone CAS<br>No: 108-94-1<br>EC No: 203-631-1 | Fresh water           | 0,033 (mg/l)     |
|   | Agua de mar           | 0,003 (mg/l)     |
|   | STP                   | 10 (mg/l)        |
|   | Sedimento agua dulce  | 0,168<br>(mg/kg) |
|   | Sedimento agua de mar | 0,017<br>(mg/kg) |

-Continued on next page.-



# SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)

## FPM 202 lustre cobalt blue

Version: 5

Revision date: 30/08/2018



GLAZURA

Page 9 of 19

Print date: 30/08/2018

|  |      |                  |
|--|------|------------------|
|  | Soil | 0,014<br>(mg/kg) |
|--|------|------------------|

PNEC: Predicted No Effect Concentration, concentration of the substance below which adverse effects are not expected in the environmental compartment.

### 8.2 Exposure controls.

#### Measures of a technical nature:

Provide adequate ventilation, which can be achieved by using good local exhaust-ventilation and a good general exhaust system.

|   |  |                                 |                               |
|---|--|---------------------------------|-------------------------------|
| <b>Concentration:</b>   | <b>100</b>   |                                 |                               |
| <b>Uses:</b>  | <b>Ceramic use.</b>  |                                 |                               |
| <b>Respiratory protection:</b>  |  |                                 |                               |
| PPE:  | Filter mask for protection against gases and particles (A-P).<br>Category I, II or III should be chosen depending on the use limit value. The mask<br>Characteristics: must be comfortable and tight to the face.  |                                 |                               |
| CEN standards:  | EN 149   |                                 |                               |
| Maintenance:  | Avoid exposure to high temperatures when not used. Before use, check the integrity of inspiration and expiration valves.<br>Use when exceeding TLV for one or more substances contained in the mixture. Be sure that the Observations: equipment is efficient. |                                 |                               |
| <b>Hand protection:</b>   |  |                                 |                               |
| PPE:  | Protective gloves against chemicals.   |                                 |                               |
| Characteristics:  | «CE» marking, category III.  |                                 |                               |
| CEN standards:  | EN 374-1, En 374-2, EN 374-3, EN 420   |                                 |                               |
| Maintenance:  | Keep in a dry place, away from any sources of heat, and avoid exposure to sunlight as much as possible. Do not make any changes to the gloves that may alter their resistance, or apply paints, solvents or adhesives.   |                                 |                               |
| Observations:   | Gloves should be of the appropriate size and fit the user's hand well, not being too loose or too tight.<br>Always use with clean, dry hands.  |                                 |                               |
| Material:   | PVC (polyvinyl chloride)   | Breakthrough time (min.): > 480 | Material thickness (mm): 0,15 |
| <b>Eye protection:</b>  |  |                                 |                               |
| PPE:  | Protective goggles against splashes and particles.   |                                 |                               |
| Characteristics:  |  |                                 |                               |
| CEN standards:  |  |                                 |                               |
| Maintenance:  | Under normal and reasonably foreseeable conditions, eye protection is not required. However, protective goggles are recommended when handling the product to avoid accidental splashing of liquids.  |                                 |                               |
| <b>Skin protection:</b>   |  |                                 |                               |
| If the product is handled correctly, no individual protection equipment is necessary. |  |                                 |                               |

-Continued on next page.-

# SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)

## Z2250040L Lustre

Version: 5

Revision date: 30/08/2018



GLAZURA

Page 10 of 19

Print date: 30/08/2018

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

#### 9.1 Information on basic physical and chemical properties.

Appearance: Liquid with characteristic odour and colour

Colour: not available

Odour: characteristic Odour

threshold: not available

pH: N.A./N.A.

Melting point: not available °C

Boiling Point: 192 °C

Flash point: 36 °C

Evaporation rate: not available

Inflammability (solid, gas): not available

Lower Explosive Limit: It does not contain chemical groups associated with explosive properties

Upper Explosive Limit: It does not contain chemical groups associated with explosive properties

Vapour pressure: 1,121

Vapour density: not available

Relative density: 0,998

Solubility: N.A./N.A.

Liposolubility: N.A./N.A.

Hydrosolubility: N.A./N.A.

Partition coefficient (n-octanol/water): not available

Auto-ignition temperature: not available °C

Decomposition temperature: not available °C

Viscosity: N.A./N.A.

Explosive properties: It does not contain chemical groups associated with explosive properties

Oxidizing properties: It does not contain chemical groups associated with oxidizing properties

N.A./N.A. = Not Available/Not Applicable due to the nature of the product

#### 9.2 Other information.

Pour point: not available

Blink: not available

Kinematic viscosity: N.A./N.A.

N.A./N.A. = Not Available/Not Applicable due to the nature of the product

### SECTION 10: STABILITY AND REACTIVITY.

#### 10.1 Reactivity.

If the storage conditions are satisfied, does not produce dangerous reactions.

#### 10.2 Chemical stability.

Stable under the recommended handling and storage conditions (see section 7).

#### 10.3 Possibility of hazardous reactions.

Flammable liquid and vapour.

#### 10.4 Conditions to avoid.

Avoid the following conditions:

- High temperature.

- Static discharge.

- Contact with incompatible materials.

- Avoid temperatures near or above the flash point. Do not heat closed containers. Avoid direct sunlight and heat, as these may cause a risk of fire.

#### 10.5 Incompatible materials.

Avoid the following materials:

- Explosives materials.

- Toxic materials.

- Oxidizing materials.

-Continued on next page.-

# SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)

## FPM 202 lustre cobalt blue

Version: 5

Revision date: 30/08/2018



GLAZURA

Page 11 of 19

Print date: 30/08/2018

### 10. Hazardous decomposition products.

In case of fire, dangerous decomposition products can be generated, such as carbon monoxide and dioxide and nitrogen fumes and oxides.

## SECTION 11: TOXICOLOGICAL INFORMATION.

IRRITANT PREPARATION. Splatters in the eyes can cause irritation.

IRRITANT PREPARATION. Its repeated or prolonged contact with the skin or mucous membranes can cause irritant symptoms such as reddening of the skin, blisters, or dermatitis. Some of the symptoms may not be immediate. They can cause allergic reactions on the skin.

### 11.1 Information on toxicological effects.

Repeated or prolonged contact with the product can cause the elimination of oil from the skin, giving rise to non-allergic contact dermatitis and absorption of the product through the skin. Splatters in the eyes can cause irritation and reversible damage.

### Toxicological information about the substances present in the composition.

| Name  | Acute toxicity |              |            |  |
|---|----------------|--------------|------------|--|
|   | Type           | Test         | Kind       | Value  |
| Rosin<br>CAS No: 8050-09-7    EC No: 232-475-7                                    | Oral           | DL50         | Rat        | 2800 mg/Kg   |
|   | Dermal         |              |            |  |
|   | Inhalation     |              |            |  |
| 3,7,7-trimethylbicyclo[4.1.0]hept-3-ene CAS<br>No: 13466-78-9    EC No: 236-719-3 | Oral           | LD50<br>LD50 | Rat<br>Rat | 4800 mg/kg [1]<br>4800 mg/kg [2]<br>[1] Food and Cosmetics Toxicology. Vol. 11, Pg. 1053, 1973<br>[2] Food and Cosmetics Toxicology. Vol. 11, Pg. 1053, 1973 |
|   | Dermal         |              |            |  |
|   | Inhalation     |              |            |  |
| cyclohexanone<br>CAS No: 108-94-1    EC No: 203-631-1                             | Oral           | LD50         | Rat        | 800 mg/kg [1]<br>[1] American Industrial Hygiene Association Journal. Vol. 30, Pg. 470, 1969   |
|   | Dermal         |              |            |  |
|   | Inhalation     | LC50         | Rat        | 11.8 mg/l/4 h [1]<br>[1] Raw Material Data Handbook, Vol.1: Organic Solvents, 1974. Vol. 1, Pg. 18, 1974   |
| 1,3,5-trimethylbenzene,mesitylene CAS<br>No: 108-67-8    EC No: 203-604-4         | Oral           |              |            |  |
|   | Dermal         |              |            |  |
|   | Inhalation     | LC50         | Rat        | 24 mg/l/4 h [1]<br>[1] Gigena i Sanitariya. For English translation, see HYSAAV. Vol. 44(5), Pg. 15, 1979  |
| Linalool<br>CAS No: 78-70-6    EC No: 201-134-4                                   | Oral           |              |            |  |
|   | Dermal         | LD50         | Rabbit     | 5610 mg/kg bw [1]<br>[1] Food and Cosmetics Toxicology. Vol. 13, Pg. 827, 1975   |

-Continued on next page.-

# SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)

## Z2250040L Lustre

Version: 5

Revision date: 30/08/2018



GLAZURA

Page 12 of 19

Print date: 30/08/2018

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|  |            |  |
|--|------------|--|
|  | Inhalation |  |
|--|------------|--|

a) acute toxicity;  
Not conclusive data for classification.

Acute Toxicity Estimate (ATE):

Mixtures:

ATE (Oral) = 6.531 mg/kg

b) skin corrosion/irritation;

# SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)

## Z2250040L Lustre

Version: 5

Revision date: 30/08/2018



GLAZURA

Page 13 of 19

Print date: 30/08/2018

Product classified:

Skin irritant, Category 2: Causes skin irritation.

c) serious eye damage/irritation; Product classified:  
Eye irritation, Category 2: Causes serious eye irritation.

d) respiratory or skin sensitisation; Product classified:  
Skin sensitiser, Category 1: May cause an allergic skin reaction.

e) germ cell mutagenicity;  
Not conclusive data for classification.

f) carcinogenicity;  
Not conclusive data for classification.

g) reproductive toxicity;  
Not conclusive data for classification.

h) STOT-single exposure;  
Based on available data, the classification criteria are not met.

i) STOT-repeated exposure;  
Not conclusive data for classification.

j) aspiration hazard;  
Based on available data, the classification criteria are not met.

### SECTION 12: ECOLOGICAL INFORMATION.

#### 12.1 Toxicity.

| Name  | Ecotoxicity           |  |  |                         |
|---|-----------------------|--|--|-------------------------|
|   | Type                  | Test   | Kind   | Value                   |
| cyclohexanone<br><br>CAS No: 108-94-1      EC No: 203-631-1 | Fish                  | LC50   | Pimephales<br>promelas   | 572-732 mg/l (96 h) [1] |
|   |                       |  | [1] Test method of the U.S. EPA Committee on Methods for Toxicity (1975) |                         |
|   | Aquatic invertebrates | EC50   | Daphnia magna  | >100 mg/l (48h) [1]     |
|   |                       | [1] OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)   |  |                         |
|   | Aquatic plants        | ECr50  | Desmodesmus<br>subspicatus   | >100 mg/l (72h) [1]     |
|   |                       | [1] OECD Guideline 201 (Alga, Growth Inhibition Test)  |  |                         |
| 1,3,5-trimethylbenzene,mesitylene                           | Fish                  | LC50   | Fish   | 12,5 mg/l (96 h) [1]    |
|   |                       | [1] Brenniman, G., R. Hartung, and W.J. Weber Jr. 1976. A Continuous Flow Bioassay Method to Evaluate the Effects of Outboard Motor Exhausts and Selected Aromatic Toxicants on Fish. Water Res. 10(2):165-169 |  |                         |

-Continued on next page.-

# SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)

## Z2250040L Lustre

Version: 5

Page 14 of 19



GLAZURA

|  |                       |  |
|--|-----------------------|--|
|  | Aquatic invertebrates | LC50 Crustacean 13 mg/l (48 h) [1]<br>[1] Caldwell, R.S., E.M. Caldarone, and M.H. Mallon 1977. Effects of a Seawater-Soluble Fraction of Cook Inlet Crude Oil and Its Major Aromatic Components on Larval Stages of the Dungeness Crab, Cancer magister Dana. In: D.A.Wolfe (Ed.) |
|--|-----------------------|--|

Revision date: 30/08/2018

Print date: 30/08/2018

|                  |                  |                |  |
|------------------|------------------|----------------|--|
| CAS No: 108-67-8 | EC No: 203-604-4 | Aquatic plants |  |
|------------------|------------------|----------------|--|

### 12.2 Persistence and degradability.

There is no information available on the degradability of the substances present. No information is available regarding the degradability of the substances present. No information is available about persistence and degradability of the product.

### 12.3 Bioaccumulative potential.

Information about the bioaccumulation of the substances present.

| Name   | Bioaccumulation |    |       |          |
|--|-----------------|----|-------|----------|
|  | Log Pow         | CF | NOECs | Level    |
| delta-3-Carene<br>N. CAS: 13466-78-9 EC No: 236-719-3                          | 4,38            | -  | -     | High     |
| 3,7,7-trimethylbicyclo[4.1.0]hept-3-ene<br>N. CAS: 13466-78-9 EC No: 236-719-3 | 4,38            | -  | -     | High     |
| p-Cymene<br>N. CAS: 99-87-6 EC No: 202-796-7                                   | 4,1             | -  | -     | High     |
| cyclohexanone<br>N. CAS: 108-94-1 EC No: 203-631-1                             | 0,81            | -  | -     | Very low |
| 1,3,5-trimethylbenzene,mesitylene<br>N. CAS: 108-67-8 EC No: 203-604-4         | 3,42            | -  | -     | Moderate |
| Linalool<br>N. CAS: 78-70-6 EC No: 201-134-4                                   | 2,97            | -  | -     | Low      |
| Camphor<br>N. CAS: 76-22-2 EC No: 200-945-0                                    | 2,34            | -  | -     | Low      |

### 12.4 Mobility in soil.

No information is available about the mobility in soil. The product must not be allowed to go into sewers or waterways. Prevent penetration into the ground.

-Continued on next page.-

# SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)

## Z2250040L Lustre

Version: 5

Revision date: 30/08/2018



GLAZURA

Page 15 of 19

Print date: 30/08/2018

### 12.5 Results of P T and vPv assessment.

No information is available about the results of PBT and vPvB assessment of the product.

### 12. Other adverse effects.

No information is available about other adverse effects for the environment.

## SECTION 13 DISPOSAL CONSIDERATIONS.

### 13.1 Waste treatment methods.

Do not dump into sewers or waterways. Waste and empty containers must be handled and eliminated according to current, local/national legislation.

Follow the provisions of Directive 2008/98/EC regarding waste management.

## SECTION 14: TRANSPORT INFORMATION.

Transport following ADR rules for road transport, RID rules for railway, ADN for inner waterways, IMDG for sea, and ICAO/IATA for air transport.

**Land:** Transport by road: ADR, Transport by rail: RID.

Transport documentation: Consignment note and written instructions

**Sea:** Transport by ship: IMDG. Transport documentation: Bill of

lading **Air:** Transport by plane: ICAO/IATA.

Transport document: Airway bill.

### 14.1 UN number.

UN No: UN1263

### 14.2 UN proper shipping name.

Description:

ADR: UN 1263, PAINT RELATED MATERIAL, 3, PG III, (D/E)

IMDG: UN 1263, PAINT RELATED MATERIAL (ALPHA-TERPINENE), 3, PG III, MARINE POLLUTANT

ICAO/IATA: UN 1263, PAINT RELATED MATERIAL, 3, PG III

### 14.3 Transport hazard class(es).

Class(es): 3

### 14.4 Packing group.

Packing group: III

### 14.5 Environmental hazards.

Marine pollutant: Yes



Dangerous for the environment

### 14. Special precautions for user.

Labels: 3



-Continued on next page.-

# SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)

## Z2250040L Lustre

**Version: 5**

Hazard number: 30

ADR LQ: 5 L IMDG

LQ: 5 L

ICAO LQ: 10 L



GLAZURA

Page 1 of 19

Provisions concerning carriage in bulk ADR: Not authorized carriage in bulk in accordance with ADR.  
Transport by ship, FEm – Emergency sheets (F – Fire, S - Spills): F-E,S-E Proceed in accordance with point 6.

**14.7 Transport in bulk according to Annex II of MARPOL and the I C Code.** The product is not transported in bulk.

### SECTION 15: REGULATORY INFORMATION.

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



# SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)

## Z2250040L Lustre

Version: 5

Revision date: 30/08/2018



GLAZURA

Page 17 of 19

Print date: 30/08/2018

The product is not affected by the Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer.

### Volatile organic compound (VOC)

VOC content (p/p): 12,815 %

VOC content: 127,901 g/l

Product classification according to Annex I of Directive 2012/18/EU (SEVESO III): E2

The product is not affected by Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products.

The product is not affected by the procedure established Regulation (EU) No 649/2012, concerning the export and import of dangerous chemicals.

### 15.2 Chemical safety assessment.

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

## SECTION 1 : OTHER INFORMATION.

Complete text of the H phrases that appear in section 3:

|      |   |
|------|---|
| H224 | Extremely flammable liquid and vapour.                |
| H226 | Flammable liquid and vapour.                          |
| H228 | Flammable solid.                                      |
| H302 | Harmful if swallowed.                                 |
| H304 | May be fatal if swallowed and enters airways.         |
| H315 | Causes skin irritation.                               |
| H317 | May cause an allergic skin reaction.                  |
| H319 | Causes serious eye irritation.                        |
| H332 | Harmful if inhaled.                                   |
| H335 | May cause respiratory irritation.                     |
| H371 | May cause damage to organs.                           |
| 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.      |

Classification codes:

Acute Tox. 4 : Acute toxicity (Inhalation), Category 4

Acute Tox. 4 : Acute toxicity (Oral), Category 4

Aquatic Acute 1 : Acute toxicity to the aquatic environment, Category 1

Aquatic Chronic 1 : Chronic effect to the aquatic environment, Category 1 Aquatic

Chronic 2 : Chronic effect to the aquatic environment, Category 2

Asp. Tox. 1 : Aspiration toxicity, Category 1

Eye Irrit. 2 : Eye irritation, Category 2

Flam. Liq. 1 : Flammable liquid, Category 1

Flam. Liq. 3 : Flammable liquid, Category 3

Flam. Sol. 2 : Flammable solid, Category 2

Skin Irrit. 2 : Skin irritant, Category 2

Skin Sens. 1 : Skin sensitiser, Category 1

STOT SE 2 : Specific target organ toxicity following a single exposure, Category 2 STOT

SE 3 : Specific target organ toxicity following a single exposure, Category 3

It is advisable to carry out basic training with regard to health and safety at work in order to handle this product correctly.

Information on the TSCA Inventory (Toxic Substances Control Act) USA:

| CAS No | Name | State |
|--------|------|-------|
|--------|------|-------|

# SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)

## Z2250040L Lustre

Version: 5

Revision date: 30/08/2018



GLAZURA

Page 18 of 19

Print date: 30/08/2018

|              |  |            |
|--------------|--|------------|
| 8050-09-7    | Rosin  | Registered |
| 67874-71-9   | BISMUTH TRIS (2-ETHYLHEXANOATE)              | Registered |
| 68956-56-9   | Hydrocarbons, terpene processing by-products | Registered |
| 99-86-5      | alpha-Terpinene                              | Registered |
| 84625-32-1   | Eucalyptus globulus oil                      |            |
| 138-86-3     | Dipentene                                    | Registered |
| 586-62-9     | p-mentha-1,4(8)-diene                        | Registered |
| 13466-78-9   | delta-3-Carene                               | Registered |
| 2170190-22-2 | Titanium resinate                            |            |
| 8052-42-4    | Asphalt                                      | Registered |
| 13466-78-9   | 3,7,7-trimethylbicyclo[4.1.0]hept-3-ene      | Registered |
| 8000-25-7    | Rosemary oil N. Afr.                         | Registered |
| 99-87-6      | p-Cymene                                     | Registered |
| 108-94-1     | cyclohexanone                                | Registered |
| 108-67-8     | 1,3,5-trimethylbenzene,mesitylene            | Registered |
| 78-70-6      | Linalool                                     | Registered |
| 76-22-2      | Camphor                                      | Registered |

#### Abbreviations and acronyms used:

- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.  
BCF: Bioconcentration factor.  
CEN: European Committee for Standardization.  
DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.  
DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.  
EC50: Half maximal effective concentration.  
PPE: Personal protection equipment.  
IATA: International Air Transport Association.  
ICAO: International Civil Aviation Organization.  
IMDG: International Maritime Code for Dangerous Goods.  
LC50: Lethal concentration, 50%.  
LD50: Lethal dose, 50%.  
Log Pow: Logarithm of the partition octanol-water.  
NOEC: No observed effect concentration.  
PNEC: Predicted No Effect Concentration, concentration of the substance below which adverse effects are not expected in the environmental compartment.  
RID: Regulations Concerning the International Transport of Dangerous Goods by Rail.

#### Key literature references and sources for data:

- <http://eur-lex.europa.eu/homepage.html>  
<http://echa.europa.eu/> Regulation (EU) 2015/830.  
Regulation (EC) No 1907/2006.  
Regulation (EU) No 1272/2008.

The information given in this Safety Data Sheet has been drafted in accordance with COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

-Continued on next page.-

# SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)

## Z2250040L Lustre

Version: 5

Revision date: 30/08/2018



GLAZURA

Page 19 of 19

Print date: 30/08/2018

The information in this Safety Data Sheet on the Preparation is based on current knowledge and on current EC and national laws, as far as the working conditions of the users is beyond our knowledge and control. The product must not be used for purposes other than those that are specified without first having written instructions on how to handle. It is always the responsibility of the user to take the appropriate measures in order to comply with the requirements established by current legislation. The information contained in this Safety Sheet only states a description of the safety requirements for the preparation, and it must not be considered as a guarantee of its properties.

End of safety data sheet.-