

# POLITHERM 20 SM ORANGE W PANTONE 166C BR

## Safety Data Sheet

According to ABNT NBR 14725: 2023

Issue date: 3/28/2025 Revision date: 4/21/2026 Version: 5.0



### SECTION 1: Identification

#### 1.1. GHS Product identifier

Product form : Mixture  
Trade name : POLITHERM 20 SM ORANGE W PANTONE 166C BR  
Product code : 11794428  
Type of product : Paint  
Product group : Trade product

#### 1.2. Other means of identification

No additional information available

#### 1.3. Recommended use of the chemical and restrictions on use

Recommended use : Electrostatic powder paint for surface coating.

#### 1.4. Supplier's details

##### WEG TINTAS LTDA - GRUPO WEG

##### Guaramirim - Santa Catarina / Brasil

Rodovia BR 280 – Km 50, 6.918 – Bloco A. Caixa D'Água – 89270-000 - +55 (47) 3276-4000

##### Mauá - São Paulo / Brasil

Rua Dr. Ulysses Guimarães, nº 918 – Bloco A. Loteamento Industrial Coral 09372-050 – Fone: +55 (11) 4547-6100

##### Cabo de Santo Agostinho - Pernambuco / Brasil

Via VII, 314 Distrito Industrial DIPER – 54590-000 - Fone: +55 (81) 3512-3000

##### Betim - Minas Gerais / Brasil

Avenida Juiz Marco Tulio Isaac, 2994 Betim Industrial – 32671-198, Fone: +55 (31) 3268-0687 / +55 (31) 3268-0686

##### Macaé - Rio de Janeiro / Brasil

Rua Itacolomi, 528 – Quadra H – Lote 11 Cabiúnas – 27977-340

##### Atotonilco de Tula - Estado de Hidalgo / México

Av. Hidalgo, lote 40, 41, 42 y 43 - Parque Industrial Bicentenario, CP 42980 - Fone: +52 (55) 5321-4231

##### Buenos Aires - Provincia de Buenos Aires / Argentina

Av. José Melián, 2983 - Parque Industrial Burzaco, B1852 - Fone: +54 (11) 4299-8000

#### 1.5. Emergency phone number

Emergency number :

|                                      |             |                                  |                         |
|--------------------------------------|-------------|----------------------------------|-------------------------|
| <b>24-HOUR EMERGENCY - AMBIPAR</b>   |             | 0800 117 2020                    |                         |
| <b>CHEMTREC international number</b> |             | +1-703-527-3887 e 1-800-424-9300 |                         |
| <b>Country</b>                       | <b>City</b> | <b>Local Number</b>              | <b>Toll-Free Number</b> |
| Austria                              | Vienna      | +43-1-3649237                    |                         |
| Austria                              |             |                                  | 0800 293702             |
| China                                |             | 400 120 4937                     |                         |
| France                               |             | +33-975181407                    |                         |
| Germany                              |             |                                  | 0800-181-7059           |

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|                |           |                  |                  |
|----------------|-----------|------------------|------------------|
| India          | Bangalore | +91 8071 279 207 |                  |
| India          |           |                  | 000 800 1007 141 |
| Italy          | Milan     | +39-02 4555 7031 |                  |
| Italy          |           |                  | 800 789 767      |
| Netherlands    |           | +31-85 888 0596  |                  |
| South Africa   |           |                  | 080-001-4676     |
| United Kingdom | London    | +44 20 3807 3798 |                  |
| South korea    |           |                  | 080-880-0454     |
| Japan          |           |                  | 0800-300-5842    |

## SECTION 2: Hazard identification

### 2.1. Classification of the substance or mixture

#### Classification according to GHS BR (ABNT NBR 14725: 2023)

Carcinogenicity, Category 1B

Reproductive toxicity, Category 1A

Hazardous to the aquatic environment - Acute Hazard, Category 2

Hazardous to the aquatic environment - Chronic Hazard, Category 2

### 2.2. GHS Label elements, including precautionary statements

#### GHS BR labelling

Hazard pictograms (GHS BR)



Signal word (GHS BR)

: Danger

Hazard statements (GHS BR)

: H350 - May cause cancer.

H360 - May damage fertility or the unborn child.

H411 - Toxic to aquatic life with long lasting effects

Precautionary statements (GHS BR)

: P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P273 - Avoid release to the environment.

P280 - Wear protective gloves, protective clothing, eye protection, face protection and hearing protection.

P308+P313 - IF exposed or concerned: Get medical advice or attention.

P391 - Collect spillage.

P405 - Store locked up.

P501 - Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and international regulations.

### 2.3. Other hazards which do not result in classification

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

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### 3.2. Mixtures

| Name                      | GHS Product identifier | Conc. (% w/w) | Classification according to GHS BR (ABNT NBR 14725: 2023)                                               |
|---------------------------|------------------------|---------------|---------------------------------------------------------------------------------------------------------|
| CALCIUM CARBONATE         | CAS-No.: 471-34-1      | 5 – 10        | Acute Tox. 5 (Oral), H303                                                                               |
| LEAD SULFOCHROMATE YELLOW | CAS-No.: 1344-37-2     | 5 – 10        | Carc. 1B, H350<br>Repr. 1A, H360<br>STOT RE 2, H373<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |
| BARIUM SULFATE CHARGE     | CAS-No.: 7727-43-7     | 5 – 10        | Acute Tox. 5 (Oral), H303<br>Aquatic Acute 3, H402<br>Aquatic Chronic 3, H412                           |
| C.I. PIGMENT RED 104      | CAS-No.: 12656-85-8    | 5 – 10        | Carc. 1B, H350<br>Repr. 1A, H360<br>STOT RE 2, H373<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |
| HYDROGENATED CASTOR OIL   | CAS-No.: 8001-78-3     | 0.5 – 1       | Acute Tox. 5 (Dermal), H313<br>Aquatic Acute 1, H400<br>Aquatic Chronic 4, H413                         |

## SECTION 4: First-aid measures

### 4.1. Description of necessary first-aid measures

|                                       |                                                                                                                                                                                                                        |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| First-aid measures general            | : IF exposed or concerned: Get medical advice/attention. People with over sensibility problems are not allowed to work or be exposed to the product.                                                                   |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing. Remove person to fresh air and keep comfortable for breathing.                                                                                        |
| First-aid measures after skin contact | : After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Wash skin with plenty of water. |
| First-aid measures after eye contact  | : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Rinse eyes with water as a precaution.                                              |
| First-aid measures after ingestion    | : If you feel unwell, seek medical advice. Call a poison center or a doctor if you feel unwell.                                                                                                                        |

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

|                                     |                                                                                                                                                                                                                                                |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms/effects                    | : May cause an allergic skin reaction. Causes serious eye damage.                                                                                                                                                                              |
| Symptoms/effects after inhalation   | : Dust of the product, if present, may cause respiratory irritation after excessive inhalation exposure. Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard. |
| Symptoms/effects after skin contact | : None under normal conditions. Dust may cause irritation in skin folds or by contact in combination with tight clothing.                                                                                                                      |
| Symptoms/effects after eye contact  | : Causes serious eye damage. stinging, redness, itching, tears.                                                                                                                                                                                |
| Symptoms/effects after ingestion    | : None under normal conditions.                                                                                                                                                                                                                |
| Chronic symptoms                    | : May cause cancer. May cause heritable genetic damage. May damage fertility. May damage the unborn child.                                                                                                                                     |

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

|                                   |                          |
|-----------------------------------|--------------------------|
| Notes to physician                | : Treat symptomatically  |
| Other medical advice or treatment | : Treat symptomatically. |

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### SECTION 5: Fire-fighting measures

#### 5.1. Suitable extinguishing media

Suitable extinguishing media : Water spray. earth, sand, dry chemical powder or foam. Water spray. Dry powder. Foam.  
Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Specific hazards arising from the chemical

Fire hazard : In case of fire and/or explosion do not breathe fumes.  
Explosion hazard : No direct explosion hazard.  
Hazardous decomposition products in case of fire : Toxic fumes may be released.

#### 5.3. Special protective actions for fire-fighters

Firefighting instructions : Fight fire with normal precautions from a reasonable distance. Do not enter fire area without proper protective equipment, including respiratory protection.  
Protection during firefighting : Use self-contained breathing apparatus and chemically protective clothing. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.  
Other information : In case of fire, corrosive and harmful gases come free.

### SECTION 6: Accidental release measures

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

General measures : Avoid contact with skin and eyes. May be harmful to aquatic organisms, to flora, to soil organisms. Clean up any spills as soon as possible, using an absorbent material to collect it. Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.

##### 6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.  
Emergency procedures : Evacuate area. Only qualified personnel equipped with suitable protective equipment may intervene. Notify fire brigade and environmental authorities.

##### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Total impervious protective suits, gloves, and boots must be worn to prevent any contact with the product. Corrosionproof suit. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".  
Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

#### 6.2. Environmental precautions

Avoid release to the environment. Do not allow to enter drains or water courses. Toxic to aquatic life with long lasting effects. Do not allow product to spread into the environment.

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

For containment : Stop leak without risks if possible. Using a clean shovel, put the material in a dry container and cover without compressing it.  
Methods for cleaning up : Mechanically recover the product. Clean up immediately by sweeping or vacuum. Clear up rapidly by scoop or vacuum. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.  
Other information : Dispose of materials or solid residues at an authorized site.

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Additional hazards when processed

Precautions for safe handling

: Not expected to present a significant hazard under anticipated conditions of normal use.  
: Obtain special instructions before use. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Contaminated work clothing should not be allowed out of the workplace. When heated, material emits highly irritating vapours, affecting the eyes. Ensure good ventilation of the work station. Keep only in original container. Do not handle until all safety precautions have been read and understood.

Hygiene measures

: Take off immediately all contaminated clothing and wash it before reuse. Always wash hands after handling the product. Do not eat, drink or smoke when using this product.

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

Technical measures

: Keep in a cool, well-ventilated place away from heat.

Storage conditions

: Keep cool. Protect from sunlight. Store in a well-ventilated place. Keep cool.

Packaging materials

: Always store product in container of same material as original container.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Appropriate engineering controls

Appropriate engineering controls

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure good ventilation of the work station.

Environmental exposure controls

: Avoid release to the environment.

#### 8.3. Individual protection measures

**Personal protective equipment:**

Wear recommended personal protective equipment.

##### Hand protection:

Nitrile rubber gloves. Protective gloves made of PVC

##### Eye protection:

Wear closed safety glasses. Safety glasses

##### Skin and body protection:

Long sleeved protective clothing. Or chemical resistant apron. Safety shoes

##### Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

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### Personal protective equipment symbol(s):



## SECTION 9: Physical and chemical properties

### 9.1. Basic physical and chemical properties

|                                                 |                                                                                                                                             |
|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Physical state                                  | : Solid                                                                                                                                     |
| Appearance                                      | : Dusty powder.                                                                                                                             |
| Colour                                          | : Orange                                                                                                                                    |
| Odour                                           | : slight                                                                                                                                    |
| Odour threshold                                 | : Not available                                                                                                                             |
| pH                                              | : Not applicable                                                                                                                            |
| Melting point                                   | : Not available                                                                                                                             |
| Freezing point                                  | : Not applicable                                                                                                                            |
| Boiling point                                   | : Not available                                                                                                                             |
| Flash point                                     | : Not applicable                                                                                                                            |
| Relative evaporation rate (butylacetate=1)      | : Not available                                                                                                                             |
| Flammability                                    | : Not available                                                                                                                             |
| Explosive limits                                | : Not applicable<br>50 – 70 g/m <sup>3</sup>                                                                                                |
| Vapour pressure                                 | : Not available                                                                                                                             |
| Relative vapour density at 20°C                 | : Not applicable                                                                                                                            |
| Relative density                                | : Not available                                                                                                                             |
| Density                                         | : 1.63 g/cm <sup>3</sup>                                                                                                                    |
| Solubility                                      | : Insoluble in water, partially soluble in some solvents and thinners oxygen as acetone, ethyl acetate, methyl ethyl, ketone, among others. |
| Partition coefficient n-octanol/water (Log Kow) | : Not available                                                                                                                             |
| Auto-ignition temperature                       | : Not applicable                                                                                                                            |
| Decomposition temperature                       | : 300 °C                                                                                                                                    |
| Viscosity, kinematic                            | : Not applicable                                                                                                                            |
| Viscosity, dynamic                              | : Not applicable                                                                                                                            |
| Particle size                                   | : 25 — 60 µm                                                                                                                                |
| Particle size distribution                      | : Not available                                                                                                                             |
| Particle shape                                  | : Not available                                                                                                                             |
| Particle aspect ratio                           | : Not available                                                                                                                             |
| Particle specific surface area                  | : Not available                                                                                                                             |

### HYDROGENATED CASTOR OIL8001-78-3

|               |                                                                         |
|---------------|-------------------------------------------------------------------------|
| Boiling point | 300 °C Source: International Uniform Chemical Information DatabaseIUCID |
| Flash point   | 300 °C Source: International Uniform Chemical Information DatabaseIUCID |

### 9.2. Data relevant with regard to physical hazard classes

|                    |            |
|--------------------|------------|
| VOC Total (g/l)    | : 0 g/l    |
| VOC Total (lb/gal) | : 0 lb/gal |

### 9.3. Further safety characteristics

No additional information available

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### SECTION 10: Stability and reactivity

|                                    |                                                                                                                                      |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Chemical stability                 | : Stable under normal conditions of use.                                                                                             |
| Conditions to avoid                | : Extremely high or low temperatures. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| Hazardous decomposition products   | : On exposure to high temperature, may decompose, releasing corrosive gases.                                                         |
| Incompatible materials             | : Não armazenar com materiais explosivos, gases inflamáveis e/ou tóxicos, substâncias oxidantes, corrosivas e materiais que possam.  |
| Possibility of hazardous reactions | : None under normal use.                                                                                                             |
| Reactivity                         | : The product is non-reactive under normal conditions of use, storage and transport.                                                 |
| Handling temperature               | : No additional information available                                                                                                |

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

|                             |                 |
|-----------------------------|-----------------|
| Acute toxicity (oral)       | : Not available |
| Acute toxicity (dermal)     | : Not available |
| Acute toxicity (inhalation) | : Not available |

#### C.I. PIGMENT RED 104 (12656-85-8)

|               |                            |
|---------------|----------------------------|
| LD50 oral rat | > 10000 mg/kg Source: ECHA |
|---------------|----------------------------|

#### BARIUM SULFATE CHARGE (7727-43-7)

|               |              |
|---------------|--------------|
| LD50 oral rat | > 3000 mg/kg |
|---------------|--------------|

#### HYDROGENATED CASTOR OIL (8001-78-3)

|               |                            |
|---------------|----------------------------|
| LD50 oral rat | > 20000 mg/kg Source: ECHA |
|---------------|----------------------------|

|                 |                           |
|-----------------|---------------------------|
| LD50 dermal rat | > 2000 mg/kg Source: ECHA |
|-----------------|---------------------------|

#### CALCIUM CARBONATE (471-34-1)

|               |                                                                        |
|---------------|------------------------------------------------------------------------|
| LD50 oral rat | 6450 mg/kg Source: International Uniform Chemical Information Database |
|---------------|------------------------------------------------------------------------|

|                 |                           |
|-----------------|---------------------------|
| LD50 dermal rat | > 2000 mg/kg Source: ECHA |
|-----------------|---------------------------|

|                       |                                                                                                                                                                                                               |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LC50 Inhalation - Rat | 3 mg/m <sup>3</sup> Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Guideline: EU Method B.2 (Acute Toxicity (Inhalation)), Guideline: EPA OPPTS 870.1300 (Acute inhalation toxicity) |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                   |                       |
|-----------------------------------|-----------------------|
| LC50 Inhalation - Rat (Dust/Mist) | > 3 mg/l Source: ECHA |
|-----------------------------------|-----------------------|

#### LEAD SULFOCHROMATE YELLOW (1344-37-2)

|               |                                                                                           |
|---------------|-------------------------------------------------------------------------------------------|
| LD50 oral rat | > 10000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity) |
|---------------|-------------------------------------------------------------------------------------------|

|                           |                                       |
|---------------------------|---------------------------------------|
| Skin corrosion/irritation | : Not available<br>pH: Not applicable |
|---------------------------|---------------------------------------|

#### C.I. PIGMENT RED 104 (12656-85-8)

|    |                    |
|----|--------------------|
| pH | 5 – 7 Source: HSDB |
|----|--------------------|

#### BARIUM SULFATE CHARGE (7727-43-7)

|    |          |
|----|----------|
| pH | 8.5 – 10 |
|----|----------|

#### CALCIUM CARBONATE (471-34-1)

|    |                    |
|----|--------------------|
| pH | 8 – 9 Source: HSDB |
|----|--------------------|

|                               |                                       |
|-------------------------------|---------------------------------------|
| Serious eye damage/irritation | : Not available<br>pH: Not applicable |
|-------------------------------|---------------------------------------|

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### C.I. PIGMENT RED 104 (12656-85-8)

|    |                    |
|----|--------------------|
| pH | 5 – 7 Source: HSDB |
|----|--------------------|

### BARIUM SULFATE CHARGE (7727-43-7)

|    |          |
|----|----------|
| pH | 8.5 – 10 |
|----|----------|

### CALCIUM CARBONATE (471-34-1)

|    |                    |
|----|--------------------|
| pH | 8 – 9 Source: HSDB |
|----|--------------------|

|                                   |                     |
|-----------------------------------|---------------------|
| Respiratory or skin sensitisation | : Not available     |
| Germ cell mutagenicity            | : Not available     |
| Carcinogenicity                   | : May cause cancer. |

### C.I. PIGMENT RED 104 (12656-85-8)

|            |                            |
|------------|----------------------------|
| IARC group | 1 - Carcinogenic to humans |
|------------|----------------------------|

|                        |                                             |
|------------------------|---------------------------------------------|
| Reproductive toxicity  | : May damage fertility or the unborn child. |
| STOT-single exposure   | : Not available                             |
| STOT-repeated exposure | : Not available                             |

### C.I. PIGMENT RED 104 (12656-85-8)

|                        |                                                                    |
|------------------------|--------------------------------------------------------------------|
| STOT-repeated exposure | May cause damage to organs through prolonged or repeated exposure. |
|------------------------|--------------------------------------------------------------------|

### CALCIUM CARBONATE (471-34-1)

|                                                  |                                                                                                                                                                        |
|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NOAEL (oral, rat, 90 days)                       | 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |
| NOAEC (inhalation, rat, dust/mist/fume, 90 days) | ≥ 0.212 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)                                                             |

### LEAD SULFOCHROMATE YELLOW (1344-37-2)

|                        |                                                                    |
|------------------------|--------------------------------------------------------------------|
| STOT-repeated exposure | May cause damage to organs through prolonged or repeated exposure. |
|------------------------|--------------------------------------------------------------------|

|                   |                 |
|-------------------|-----------------|
| Aspiration hazard | : Not available |
|-------------------|-----------------|

### POLITHERM 20 SM ORANGE W PANTONE 166C BR

|                      |                |
|----------------------|----------------|
| Viscosity, kinematic | Not applicable |
|----------------------|----------------|

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

|                                     |                                                                                                                                                                                                                                                |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms/effects                    | : May cause an allergic skin reaction. Causes serious eye damage.                                                                                                                                                                              |
| Symptoms/effects after inhalation   | : Dust of the product, if present, may cause respiratory irritation after excessive inhalation exposure. Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard. |
| Symptoms/effects after skin contact | : None under normal conditions. Dust may cause irritation in skin folds or by contact in combination with tight clothing.                                                                                                                      |
| Symptoms/effects after eye contact  | : Causes serious eye damage. stinging. redness, itching, tears.                                                                                                                                                                                |
| Symptoms/effects after ingestion    | : None under normal conditions.                                                                                                                                                                                                                |
| Chronic symptoms                    | : May cause cancer. May cause heritable genetic damage. May damage fertility. May damage the unborn child.                                                                                                                                     |

## SECTION 12: Ecological information

### 12.1. Toxicity

|                                                          |                                                                           |
|----------------------------------------------------------|---------------------------------------------------------------------------|
| Ecology - general                                        | : Toxic to aquatic life with long lasting effects. Toxic to aquatic life. |
| Hazardous to the aquatic environment, short-term (acute) | : Toxic to aquatic life.                                                  |

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Hazardous to the aquatic environment, long-term (chronic) : Toxic to aquatic life with long lasting effects.

### C.I. PIGMENT RED 10412656-85-8

|                      |                        |
|----------------------|------------------------|
| LC50 - Fish [1]      | 2500 mg/l Source: ECHA |
| EC50 - Crustacea [1] | 100 mg/l Source: ECHA  |
| EC50 72h - Algae [1] | 100 mg/l Source: ECHA  |

### BARIUM SULFATE CHARGE7727-43-7

|                      |                              |
|----------------------|------------------------------|
| EC50 - Crustacea [1] | 32 mg/l Source: ECOTOX       |
| EC50 96h - Algae [1] | 1890.263 mg/l Source: ECOSAR |

### HYDROGENATED CASTOR OIL8001-78-3

|                      |                           |
|----------------------|---------------------------|
| LC50 - Fish [1]      | > 10000 mg/l Source: ECHA |
| EC50 - Crustacea [1] | > 100 mg/l Source: ECHA   |
| ErC50 algae          | > 0.01 mg/l Source: ECHA  |

### CALCIUM CARBONATE471-34-1

|                      |                                                                                                      |
|----------------------|------------------------------------------------------------------------------------------------------|
| LC50 - Fish [1]      | > 56000 mg/l Source: ECOTOX                                                                          |
| EC50 72h - Algae [1] | > 14 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |
| EC50 96h - Algae [1] | 22000 mg/l Source: Ecological Structure Activity Relationships                                       |

### LEAD SULFOCHROMATE YELLOW1344-37-2

|                      |                                                                                                       |
|----------------------|-------------------------------------------------------------------------------------------------------|
| LC50 - Fish [1]      | > 100 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)             |
| EC50 - Crustacea [1] | > 100 mg/l Test organisms (species): Daphnia magna                                                    |
| EC50 72h - Algae [1] | > 100 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |
| NOEC (chronic)       | 0.7 mg/l Test organisms (species): Daphnia magna Duration: '21 d'                                     |

## 12.2. Persistence and degradability

### POLITHERM 20 SM ORANGE W PANTONE 166C BR

|                               |                        |
|-------------------------------|------------------------|
| Persistence and degradability | Not rapidly degradable |
|-------------------------------|------------------------|

### C.I. PIGMENT RED 10412656-85-8

|                               |                        |
|-------------------------------|------------------------|
| Persistence and degradability | Not rapidly degradable |
|-------------------------------|------------------------|

### BARIUM SULFATE CHARGE7727-43-7

|                               |                        |
|-------------------------------|------------------------|
| Persistence and degradability | Not rapidly degradable |
|-------------------------------|------------------------|

### HYDROGENATED CASTOR OIL8001-78-3

|                               |                        |
|-------------------------------|------------------------|
| Persistence and degradability | Not rapidly degradable |
|-------------------------------|------------------------|

### CALCIUM CARBONATE471-34-1

|                               |                        |
|-------------------------------|------------------------|
| Persistence and degradability | Not rapidly degradable |
|-------------------------------|------------------------|

### LEAD SULFOCHROMATE YELLOW1344-37-2

|                               |                        |
|-------------------------------|------------------------|
| Persistence and degradability | Not rapidly degradable |
|-------------------------------|------------------------|

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### 12.3. Bioaccumulative potential

#### HYDROGENATED CASTOR OIL8001-78-3

Partition coefficient n-octanol/water (Log Pow)

18.75 Source: ECHA

### 12.4. Mobility in soil

#### CALCIUM CARBONATE471-34-1

Mobility in soil

4.971 Source: Quantitative Structure Activity Relation

### 12.5. Other adverse effects

Hazardous to the ozone layer

: Not available

Other adverse effects

: May cause pH changes in aqueous ecological systems. Before neutralisation, the product may represent a danger to aquatic organisms.

## SECTION 13: Disposal considerations

Regional waste regulation

: Law No. 12.305 on the National Policy on Solid Waste Management, 02 August 2010.

Waste treatment methods

: Must follow special treatment according to local regulation. Dispose of contents/container in accordance with licensed collector's sorting instructions.

Sewage disposal recommendations

: Disposal must be done according to official regulations.

Product/Packaging disposal recommendations

: Comply with applicable regulations for solid waste disposal. Disposal must be done according to official regulations.

Additional information

: Do not re-use empty containers.

## SECTION 14: Transport information

### 14.1 National and international Regulations

In accordance with IMDG / IATA / ANTT

| ANTT                                                                                | IMDG                                                                                 | IATA                                                                                  |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>UN number</b>                                                                    |                                                                                      |                                                                                       |
| 3077                                                                                | 3077                                                                                 | 3077                                                                                  |
| <b>UN Proper Shipping Name</b>                                                      |                                                                                      |                                                                                       |
| SUBSTÂNCIA QUE APRESENTA RISCO PARA O MEIO AMBIENTE, SÓLIDA, N.E.                   | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.                                   | Environmentally hazardous substance, solid, n.o.s.                                    |
| <b>Transport document description</b>                                               |                                                                                      |                                                                                       |
| Not applicable                                                                      | UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III, MARINE POLLUTANT | UN 3077 Environmentally hazardous substance, solid, n.o.s., 9, III                    |
| <b>Transport hazard class(es)</b>                                                   |                                                                                      |                                                                                       |
| 9                                                                                   | 9                                                                                    | 9                                                                                     |
| <b>Danger labels</b>                                                                |                                                                                      |                                                                                       |
| 9                                                                                   | 9                                                                                    | 9                                                                                     |
|  |   |  |

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|                                                                                   |                                                                                   |                                                                                     |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |
| <b>Subsidiary risk</b>                                                            |                                                                                   |                                                                                     |
| Not applicable                                                                    | Not applicable                                                                    | Not applicable                                                                      |
| <b>Risk Number</b>                                                                |                                                                                   |                                                                                     |
| 90                                                                                | Not applicable                                                                    | Not applicable                                                                      |
| <b>Packing group</b>                                                              |                                                                                   |                                                                                     |
| III                                                                               | III                                                                               | III                                                                                 |
| <b>Special provisions</b>                                                         |                                                                                   |                                                                                     |
| 274,331,335,375                                                                   | 274,335,375,966,967,969                                                           | A97,A158,A179,A197,A215                                                             |
| <b>Dangerous for the environment</b>                                              |                                                                                   |                                                                                     |
| Yes                                                                               | Yes                                                                               | Yes                                                                                 |

### 14.2 Other informations

No additional information available

## SECTION 15: Regulatory information

### 15.1. National regulations

Brazil Local Regulations

: Standard ABNT NBR 14725.  
Federal Decree no. 10.088, of 5 November 2019 – Promulgates Convention no. 170 of the WLO, relating to Safety in the Use of Chemicals in the Workplace, ratified by the Federative Republic of Brazil.  
Ministerial Order no. 2.770, of 5 September 2022 – Approves the new wording of Regulatory Standard No. 26  
Federal Decree no. 96.044, of 18 May 1988 - Approves Regulations for Road Transportation of Hazardous Materials  
Resolution no. 5998, of 03 November 2022, updates the regulation for road transport of dangerous goods, approves its Complementary Instructions, and other measures.  
Law No. 12.305, of August 2, 2010 (National Policy on Solid Waste)

## SECTION 16: Other information

Abbreviations and acronyms

: CAS-No. - Chemical Abstracts Service number  
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  
BCF - Bioconcentration factor  
EC50 - Median effective concentration  
LC50 - Median lethal concentration  
VOC - Volatile Organic Compounds  
LD50 - Median lethal dose  
DMEL - Derived Minimal Effect level  
DNEL - Derived-No Effect Level  
COD - Chemical oxygen demand (COD)  
ATE - Acute Toxicity Estimate  
IMDG - International Maritime Dangerous Goods

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IATA - International Air Transport Association  
EC-No. - European Community number  
vPvB - Very Persistent and Very Bioaccumulative  
WGK - Water Hazard Class  
IOELV - Indicative Occupational Exposure Limit Value  
BLV - Biological limit value  
TRGS - Technical Rules for Hazardous Substances  
TLM - Median Tolerance Limit  
IARC - International Agency for Research on Cancer

Important information, but not specifically described in the previous sections: This MSDS was prepared based on current knowledge about the handling of the product under normal conditions of use, according to the application specified on the packaging and recommended usage in Section 1 of this MSDS. Any other use of the product involving its combination with other materials, as well as forms of use different from those indicated, are the user's responsibility. The company advises that the handling of any chemical substance requires prior knowledge of its hazards by the user. In the workplace it is responsibility of the company user of the product to provide training of its employees and contractors about the possible risks arising from exposure to the chemical. We reserve the right to change the information contained in this document without prior notice, due to the improvement and continuous evolution of the product and technical knowledge.

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