

# POLITHERM 21 R MT GRAPHITE RAL 7022 BR

## Safety Data Sheet

According to ABNT NBR 14725: 2023  
Issue date: 1/18/2024 Revision date: 5/12/2025 SAP export date: 4/10/2025 Version: 4.0



### SECTION 1: Identification

#### 1.1. GHS Product identifier

Product form : Mixture  
Trade name : POLITHERM 21 R MT GRAPHITE RAL 7022 BR  
Product code : 10005546  
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  |                  |
| Russia         |           |                  | 8(800)100-63-46  |
| 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 2

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

#### GHS BR labelling

Hazard pictograms (GHS BR)



Signal word (GHS BR)

: Warning

Hazard statements (GHS BR)

: H351 - Suspected of causing cancer.

Precautionary statements (GHS BR)

: P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P280 - Wear protective gloves, protective clothing, eye protection, face protection and hearing protection.  
P308+P313 - IF exposed or concerned: Get medical advice or attention.  
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

### 3.2. Mixtures

| Name              | GHS Product identifier | %       | Classification according to GHS BR (ABNT NBR 14725: 2023) |
|-------------------|------------------------|---------|-----------------------------------------------------------|
| CALCIUM CARBONATE | CAS-No.: 471-34-1      | 20 – 30 | Acute Tox. 5 (Oral), H303                                 |

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| Name             | GHS Product identifier | %     | Classification according to GHS BR (ABNT NBR 14725: 2023) |
|------------------|------------------------|-------|-----------------------------------------------------------|
| TITANIUM DIOXIDE | CAS-No.: 13463-67-7    | 1 – 5 | Carc. 2, H351                                             |

## 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.                                                                                                          |
| First-aid measures after inhalation   | : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. |
| First-aid measures after skin contact | : After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.                                             |
| First-aid measures after eye contact  | : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.                                                                   |
| First-aid measures after ingestion    | : Do NOT induce vomiting. Rinse mouth out with water.                                                                                                             |

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

|                                     |                                                                                                                                                                                                                                                |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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  | : None under normal conditions. Dust from this product may cause eye irritation.                                                                                                                                                               |
| Symptoms/effects after ingestion    | : None under normal conditions.                                                                                                                                                                                                                |
| Chronic symptoms                    | : Suspected carcinogen.                                                                                                                                                                                                                        |

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

|                    |                         |
|--------------------|-------------------------|
| Notes to physician | : Treat symptomatically |
|--------------------|-------------------------|

## SECTION 5: Fire-fighting measures

### 5.1. Suitable extinguishing media

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

### 5.2. Specific hazards arising from the chemical

|                  |                               |
|------------------|-------------------------------|
| Fire hazard      | : No fire hazard.             |
| Explosion hazard | : No direct explosion hazard. |

### 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 | : Wear recommended personal protective equipment.                                                                                                              |

## SECTION 6: Accidental release measures

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

|                  |                                                                                             |
|------------------|---------------------------------------------------------------------------------------------|
| General measures | : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. |
|------------------|---------------------------------------------------------------------------------------------|

#### 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 |

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intervene. Notify fire brigade and environmental authorities.

### 6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

### 6.2. Environmental precautions

Do not allow to enter drains or water courses.

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

- For containment : Using a clean shovel, put the material in a dry container and cover without compressing it. Stop leak without risks if possible.
- Methods for cleaning up : Clean up immediately by sweeping or vacuum. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.
- Precautions for safe handling : 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. Keep only in original container. Do not handle until all safety precautions have been read and understood.
- Hygiene measures : Do not eat, drink or smoke when using this product.

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

- Technical measures : Store locked up.
- Storage conditions : Keep cool. Protect from sunlight.
- Packaging materials : Store always product in container of same material as original container.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| TITANIUM DIOXIDE 13463-67-7               |                               |
|-------------------------------------------|-------------------------------|
| USA - OSHA - Occupational Exposure Limits |                               |
| Local name                                | Titanium dioxide (Total dust) |
| OSHA PEL TWA                              | 15 mg/m <sup>3</sup>          |
| Regulatory reference (US-OSHA)            | OSHA Annotated Table Z-1      |

### 8.2. Appropriate engineering controls

- Appropriate engineering controls : Ensure good ventilation of the work station.

### 8.3. Individual protection measures

#### Personal protective equipment:

Wear recommended personal protective equipment.

#### Hand protection:

Protective gloves

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### Eye protection:

Wear security glasses which protect from splashes

### Skin and body protection:

Wear suitable protective clothing

### Respiratory protection:

No respiratory protection needed under normal use conditions

### 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                                          | :                                                                                                                                           |
| Odour                                           | : slight                                                                                                                                    |
| Odour threshold                                 | : Not available                                                                                                                             |
| pH                                              | : Not applicable                                                                                                                            |
| Melting point                                   | : Not available                                                                                                                             |
| Freezing point                                  | : Not available                                                                                                                             |
| Boiling point                                   | : Not available                                                                                                                             |
| Flash point                                     | : Not applicable                                                                                                                            |
| Relative evaporation rate (butylacetate=1)      | : Not available                                                                                                                             |
| Flammability                                    | : Not available                                                                                                                             |
| Explosive limits                                | : 50 – 70 g/m <sup>3</sup>                                                                                                                  |
| Vapour pressure                                 | : Not available                                                                                                                             |
| Relative vapour density at 20°C                 | : Not applicable                                                                                                                            |
| Relative density                                | : Not available                                                                                                                             |
| Density                                         | : 1.71 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                                                                                                                             |

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

No additional information available

### 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   | : No hazardous decomposition products known at room temperature.                                                                     |
| Incompatible materials             | :                                                                                                                                    |
| 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 |

| TITANIUM DIOXIDE (13463-67-7) |                                                                                                                                                                                          |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LD50 oral rat                 | > 5000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure), Guideline: EPA OPPTS 870.1100 (Acute Oral Toxicity) |

| CALCIUM CARBONATE (471-34-1) |                                                                                                                                                                                                               |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LD50 oral rat                | 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method), Guideline: EU Method B.1 bis (Acute Oral Toxicity - Fixed Dose Procedure)     |
| LD50 dermal rat              | 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal))                                                                  |
| 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) |

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

| CALCIUM CARBONATE (471-34-1) |    |
|------------------------------|----|
| pH                           | 10 |

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

| CALCIUM CARBONATE (471-34-1) |    |
|------------------------------|----|
| pH                           | 10 |

|                                   |                                |
|-----------------------------------|--------------------------------|
| Respiratory or skin sensitisation | : Not available                |
| Germ cell mutagenicity            | : Not available                |
| Carcinogenicity                   | : Suspected of causing cancer. |
| Reproductive toxicity             | : Not available                |
| STOT-single exposure              | : Not available                |
| STOT-repeated exposure            | : Not available                |

| 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)                                                             |

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Aspiration hazard : Not available

| POLITHERM 21 R MT GRAPHITE RAL 7022 BR |                |
|----------------------------------------|----------------|
| Viscosity, kinematic                   | Not applicable |

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

|                                     |                                                                                                                                                                                                                                                |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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  | : None under normal conditions. Dust from this product may cause eye irritation.                                                                                                                                                               |
| Symptoms/effects after ingestion    | : None under normal conditions.                                                                                                                                                                                                                |
| Chronic symptoms                    | : Suspected carcinogen.                                                                                                                                                                                                                        |

## SECTION 12: Ecological information

### 12.1. Toxicity

|                                                           |                   |
|-----------------------------------------------------------|-------------------|
| Hazardous to the aquatic environment, short-term (acute)  | : Not available   |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified. |

| TITANIUM DIOXIDE13463-67-7         |                                                                                                                                            |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| EC50 - Other aquatic organisms [1] | > 100 mg/l Test organisms (species):                                                                                                       |
| EC50 72h - Algae [1]               | > 100 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum) |
| LOEC (chronic)                     | 5 mg/l Test organisms (species): Daphnia magna Duration: '21 d'                                                                            |
| CALCIUM CARBONATE471-34-1          |                                                                                                                                            |
| EC50 72h - Algae [1]               | > 14 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)                                       |

### 12.2. Persistence and degradability

| POLITHERM 21 R MT GRAPHITE RAL 7022 BR |                        |
|----------------------------------------|------------------------|
| Persistence and degradability          | Not rapidly degradable |
| TITANIUM DIOXIDE13463-67-7             |                        |
| Persistence and degradability          | Not rapidly degradable |
| CALCIUM CARBONATE471-34-1              |                        |
| Persistence and degradability          | Not rapidly degradable |

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Hazardous to the ozone layer : Not available

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### 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.                                                          |
| 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>                     |               |               |
| Not regulated for transport          |               |               |
| <b>UN Proper Shipping Name</b>       |               |               |
| Not regulated                        | Not regulated | Not regulated |
| <b>Transport hazard class(es)</b>    |               |               |
| Not regulated                        | Not regulated | Not regulated |
| <b>Danger labels</b>                 |               |               |
| Not regulated                        | Not regulated | Not regulated |
| <b>Subsidiary risk</b>               |               |               |
| Not regulated                        | Not regulated | Not regulated |
| <b>Risk Number</b>                   |               |               |
| Not regulated                        | Not regulated | Not regulated |
| <b>Packing group</b>                 |               |               |
| Not regulated                        | Not regulated | Not regulated |
| <b>Special provisions</b>            |               |               |
| Not regulated                        | Not regulated | Not regulated |
| <b>Dangerous for the environment</b> |               |               |
| Not regulated                        | Not regulated | Not regulated |

#### 14.2 Other informations

No additional information available

### SECTION 15: Regulatory information

#### 15.1. National regulations

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Brazil Local Regulations | : Standard ABNT NBR 14725.<br>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.<br>Ministerial Order no. 2.770, of 5 September 2022 – Approves the new wording of Regulatory Standard No. 26<br>Federal Decree no. 96.044, of 18 May 1988 - Approves Regulations for Road |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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Transportation of Hazardous Materials

Resolution no. 5998, of November 3, 2022, updates the regulation for road transport of dangerous goods, approves its Complementary Instructions, and other measures.

### SECTION 16: Other information

#### Abbreviations and acronyms

: CAS-No. - Chemical Abstract 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  
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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