

# WEGTHANE HBD 52 1 BLUE RAL 5015 COMPONENT A

## Safety Data Sheet

According to ABNT NBR 14725: 2023

Issue date: 7/18/2024 Revision date: 6/17/2025 Version: 3.0



### SECTION 1: Identification

#### 1.1. GHS Product identifier

Product form : Mixture  
Trade name : WEGTHANE HBD 52 1 BLUE RAL 5015 COMPONENT A  
Product code : 17141340  
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 : Coating providing surfaces with protection, waterproofing, finishing and resistance, etc.

#### 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)

Serious eye damage/eye irritation, Category 1

Skin sensitisation, Category 1

Carcinogenicity, Category 1B

Specific target organ toxicity — Repeated exposure, Category 2

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)

: H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H350 - May cause cancer.

H373 - May cause damage to organs through prolonged or repeated exposure.

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.

P260 - Do not breathe dust, fume, gas, mist, vapours or spray.

P272 - Contaminated work clothing should not be allowed out of the workplace.

P273 - Avoid release to the environment.

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

P302+P352 - IF ON SKIN: Wash with plenty of water.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

P310 - Immediately call a POISON CENTER or a doctor.

P314 - Get medical advice or attention as appropriate.

P321 - Specific treatment (see supplemental first aid instruction on this label).

P333+P313 - If skin irritation or rash occurs: Get medical advice or attention.

P362+P364 - Take off contaminated clothing and wash it before reuse.

P391 - Collect spillage.

P405 - Store locked up.

P501 - Dispose of contents and/or container to hazardous or special waste collection point,

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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)                                                                                                            |
|----------------------------------------------------------------------------|-----------------------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2,2'-dichloro-4,4'-methylenedianiline; 4,4'-methylene bis(2-chloroaniline) | CAS-No.: 101-14-4           | 5 – 10 | Acute Tox. 4 (Oral), H302<br>Acute Tox. 5 (Dermal), H313<br>Carc. 1B, H350<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410                                       |
| MICA                                                                       | CAS-No.: 12001-26-2         | 5 – 10 | Eye Irrit. 2B, H320<br>Skin Sens. 1, H317                                                                                                                            |
| GLYCIDOXYPROPYL TRIMETHOXYSILANE                                           | CAS-No.: 2530-83-8          | 1 – 5  | Acute Tox. 5 (Dermal), H313<br>Acute Tox. 3 (Inhalation:vapour), H331<br>Eye Dam. 1, H318<br>Aquatic Acute 3, H402<br>Aquatic Chronic 3, H412                        |
| ADDITIVE RHEOLOGIC                                                         | CAS-No.: segredo industrial | 1 – 5  | Flam. Sol. 1, H228<br>Aquatic Acute 1, H400<br>Aquatic Chronic 2, H411                                                                                               |
| 2,4-diamino-3,5-diethyltoluene; 2,4-diethyl-6-methyl-1,3-benzenediamine    | CAS-No.: 2095-02-5          | 1 – 5  | Acute Tox. 4 (Oral), H302<br>Acute Tox. 4 (Dermal), H312<br>Eye Irrit. 2A, H319<br>STOT RE 1, H372<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410               |
| Aliphatic solvent                                                          | CAS-No.: 64742-47-8         | 1 – 5  | Flam. Liq. 3, H226<br>Acute Tox. 5 (Dermal), H313<br>Acute Tox. 3 (Inhalation:vapour), H331<br>Asp. Tox. 1, H304<br>Aquatic Acute 2, H401<br>Aquatic Chronic 2, H411 |

## 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.                                                                                                                       |
| 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. |
| First-aid measures after eye contact  | : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if                                                                                               |

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First-aid measures after ingestion : present and easy to do. Continue rinsing.  
: Do NOT induce vomiting. Rinse mouth out with water.

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

Symptoms/effects : May cause damage to organs through prolonged or repeated exposure. May cause an allergic skin reaction. Causes serious eye damage.  
Symptoms/effects after inhalation : 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.  
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.

### 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, dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).  
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.

### 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.  
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 : 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.  
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. Toxic to aquatic life with long lasting effects. Do not allow product to spread into the environment.  
Notify authorities if product enters sewers or public waters.

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

- For containment : Stop leak without risks if possible. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
- Methods for cleaning up : Absorb spilled material with sand or earth. Clean contaminated surfaces with an excess of water. Take up liquid spill into absorbent material.

## 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. 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 : Always wash hands after handling the product. Take off immediately all contaminated clothing and wash it before reuse. 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 : Store always product in container of same material as original container.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| 2,2'-dichloro-4,4'-methylenedianiline; 4,4'-methylene bis(2-chloroaniline) 101-14-4 |                                                                                              |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| USA - ACGIH - Occupational Exposure Limits                                          |                                                                                              |
| Local name                                                                          | 4,4'-Methylene bis(2-chloroaniline) (MBOCA)                                                  |
| ACGIH® TLV® TWA                                                                     | 0.01 ppm (IFV - Inhalable fraction and vapor)                                                |
| Remark (ACGIH)                                                                      | TLV® Basis: Bladder cancer; MeHb-emia. Notations: Skin; A2 (Suspected Human Carcinogen); BEI |
| Regulatory reference                                                                | ACGIH 2024                                                                                   |
| MICA 12001-26-2                                                                     |                                                                                              |
| USA - ACGIH - Occupational Exposure Limits                                          |                                                                                              |
| Local name                                                                          | Mica                                                                                         |
| ACGIH® TLV® TWA                                                                     | 0.1 mg/m³ (R - Respirable particulate matter)                                                |
| Remark (ACGIH)                                                                      | TLV® Basis: Pneumoconiosis                                                                   |
| Regulatory reference                                                                | ACGIH 2024                                                                                   |
| USA - OSHA - Occupational Exposure Limits                                           |                                                                                              |
| Local name                                                                          | Mica (Silicates (less than 1% crystalline silica))                                           |
| OSHA PEL TWA                                                                        | 20 mppcf                                                                                     |
| Remark (OSHA)                                                                       | Table Z-3. CAS No. source: eCFR Table Z-1.                                                   |

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### MICA 12001-26-2

Regulatory reference (US-OSHA)

OSHA Annotated Table Z-3 Mineral Dusts

### 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.

### 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

#### 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

#### Personal protective equipment symbol(s):



## SECTION 9: Physical and chemical properties

### 9.1. Basic physical and chemical properties

|                                            |                     |
|--------------------------------------------|---------------------|
| Physical state                             | : Liquid            |
| Appearance                                 | : Liquid.           |
| Colour                                     | : Blue              |
| Odour                                      | : characteristic    |
| Odour threshold                            | : Not available     |
| pH                                         | : Not available     |
| Melting point                              | : Not available     |
| Freezing point                             | : Not available     |
| Boiling point                              | : Not available     |
| Flash point                                | : > 100 °C          |
| Relative evaporation rate (butylacetate=1) | : Not available     |
| Flammability                               | : Not available     |
| Explosive limits                           | : Not available     |
| Vapour pressure                            | : Not available     |
| Relative vapour density at 20°C            | : Not available     |
| Relative density                           | : Not available     |
| Density                                    | : 1.15 – 1.25 g/cm³ |

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|                                                 |                                                                      |
|-------------------------------------------------|----------------------------------------------------------------------|
| Solubility                                      | : Material insoluble in water.<br>Water: Material insoluble in water |
| Partition coefficient n-octanol/water (Log Kow) | : Not available                                                      |
| Auto-ignition temperature                       | : Not available                                                      |
| Decomposition temperature                       | : Not available                                                      |
| Viscosity, kinematic                            | : Not available                                                      |
| Viscosity, dynamic                              | : 125 – 135 ku/kg                                                    |
| Particle size                                   | : Not applicable                                                     |
| Particle size distribution                      | : Not applicable                                                     |
| Particle shape                                  | : Not applicable                                                     |
| Particle aspect ratio                           | : Not applicable                                                     |
| Particle specific surface area                  | : Not applicable                                                     |

### 2,2'-dichloro-4,4'-methylenedianiline; 4,4'-methylene bis(2-chloroaniline)101-14-4

|                 |                             |
|-----------------|-----------------------------|
| Boiling point   | 378.9 °C Source: ChemIDplus |
| Flash point     | 113 °C Source: ICSC         |
| Vapour pressure | < 0.00147 Pa Temp.: 20 °C   |

### 2,4-diamino-3,5-diethyltoluene; 2,4-diethyl-6-methyl-1,3-benzenediamine2095-02-5

|               |                                   |
|---------------|-----------------------------------|
| Boiling point | ≥ 308.3 °C Atm. press.: 766 mm Hg |
| Flash point   | ≥ 156 °C                          |

### Aliphatic solvent64742-47-8

|                           |                                       |
|---------------------------|---------------------------------------|
| Boiling point             | 146 – 299 °C Atm. press.: 101,325 kPa |
| Flash point               | 29 – 70 °C Atm. press.: 101,325 kPa   |
| Auto-ignition temperature | 236 °C Source: ICSC                   |
| Vapour pressure           | 1 – 3.7 kPa Temp.: 37,8 °C            |

### MICA12001-26-2

|                 |                      |
|-----------------|----------------------|
| Vapour pressure | 0 mm Hg Source: HSDB |
|-----------------|----------------------|

### GLYCIDOXYPROPYL TRIMETHOXYSILANE2530-83-8

|                           |                                   |
|---------------------------|-----------------------------------|
| Boiling point             | 260.4 °C Atm. press.: 1013,25 hPa |
| Flash point               | 136 °C Atm. press.: 101,3 kPa     |
| Auto-ignition temperature | 400 °C                            |
| Vapour pressure           | 1.1 Pa Temp.: 25 °C               |

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

No additional information available

## 9.3. Further safety characteristics

No additional information available

## 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 |

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|                                    |                                                                                      |
|------------------------------------|--------------------------------------------------------------------------------------|
| Hazardous decomposition products   | : flames and other ignition sources. No smoking.                                     |
| Incompatible materials             | : On exposure to high temperature, may decompose, releasing corrosive gases.         |
| Possibility of hazardous reactions | : No additional information available.                                               |
| Reactivity                         | : None under normal use.                                                             |
| Handling temperature               | : The product is non-reactive under normal conditions of use, storage and transport. |
|                                    | : 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 |

#### 2,2'-dichloro-4,4'-methylenedianiline; 4,4'-methylene bis(2-chloroaniline) (101-14-4)

|                    |                                                                                                                                                                                                                          |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LD50 oral rat      | 1140 mg/kg Source: ChemIDplus                                                                                                                                                                                            |
| LD50 dermal rat    | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Guideline: EPA OPPTS 870.1200 (Acute Dermal Toxicity), Guideline: other: |
| LD50 dermal rabbit | > 2000 mg/kg Source: ECHA                                                                                                                                                                                                |

#### 2,4-diamino-3,5-diethyltoluene; 2,4-diethyl-6-methyl-1,3-benzenediamine (2095-02-5)

|               |                         |
|---------------|-------------------------|
| LD50 oral rat | 472 mg/kg Source: RTECS |
|---------------|-------------------------|

#### Aliphatic solvent (64742-47-8)

|                                   |                                                                                                                                                                 |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LD50 oral rat                     | > 5000 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 798.1175 (Acute Oral Toxicity), Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method) |
| LD50 dermal rabbit                | > 2000 mg/kg bodyweight Animal: rabbit, Guideline: EPA OTS 798.1100 (Acute Dermal Toxicity), Guideline: OECD Guideline 402 (Acute Dermal Toxicity)              |
| LC50 Inhalation - Rat             | > 5.28 mg/l/4h Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), 95% CL: 0,42 -                                                           |
| LC50 Inhalation - Rat (Dust/Mist) | > 5.2 mg/l Source: IUCLID                                                                                                                                       |

#### GLYCIDOXYPROPYL TRIMETHOXYSILANE (2530-83-8)

|                                 |                                                                                       |
|---------------------------------|---------------------------------------------------------------------------------------|
| LD50 oral rat                   | 7010 mg/kg Source: SIDS                                                               |
| LD50 dermal rabbit              | 3970 mg/kg Source: SIDS                                                               |
| LC50 Inhalation - Rat           | > 5.3 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity) |
| LC50 Inhalation - Rat (Vapours) | > 5.3 mg/l Source: SIDS                                                               |

|                           |                 |
|---------------------------|-----------------|
| Skin corrosion/irritation | : Not available |
|---------------------------|-----------------|

#### ADDITIVE RHEOLOGIC (segredo industrial)

|    |     |
|----|-----|
| pH | 7.8 |
|----|-----|

|                               |                              |
|-------------------------------|------------------------------|
| Serious eye damage/irritation | : Causes serious eye damage. |
|-------------------------------|------------------------------|

#### ADDITIVE RHEOLOGIC (segredo industrial)

|    |     |
|----|-----|
| pH | 7.8 |
|----|-----|

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

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### 2,2'-dichloro-4,4'-methylenedianiline; 4,4'-methylene bis(2-chloroaniline) (101-14-4)

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

### Aliphatic solvent (64742-47-8)

|                           |                                                                                                                                                           |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| NOAEL (animal/male, F0/P) | ≥ 3000 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 415 [One-Generation Reproduction Toxicity Study (before 9 October 2017)] |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|

|                        |                                                                      |
|------------------------|----------------------------------------------------------------------|
| Reproductive toxicity  | : Not available                                                      |
| STOT-single exposure   | : Not available                                                      |
| STOT-repeated exposure | : May cause damage to organs through prolonged or repeated exposure. |

### 2,4-diamino-3,5-diethyltoluene; 2,4-diethyl-6-methyl-1,3-benzenediamine (2095-02-5)

|                                     |                                                                 |
|-------------------------------------|-----------------------------------------------------------------|
| LOAEL (dermal, rat/rabbit, 90 days) | ≥ 10 mg/kg bodyweight Animal: rabbit                            |
| STOT-repeated exposure              | Causes damage to organs through prolonged or repeated exposure. |

### Aliphatic solvent (64742-47-8)

|                                     |                                                                                                                                           |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| NOAEL (oral, rat, 90 days)          | 750 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) |
| NOAEL (dermal, rat/rabbit, 90 days) | ≥ 495 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)                              |

### GLYCIDOXYPROPYL TRIMETHOXYSILANE (2530-83-8)

|                            |                                                                                                                                                                                                                                                              |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NOAEL (oral, rat, 90 days) | ≥ 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: other: |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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

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|                      |                    |
|----------------------|--------------------|
| Viscosity, kinematic | 3.02 – 3.545 mm²/s |
|----------------------|--------------------|

### GLYCIDOXYPROPYL TRIMETHOXYSILANE (2530-83-8)

|                      |                                                                      |
|----------------------|----------------------------------------------------------------------|
| Viscosity, kinematic | 3.43 mm²/s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm²/s)' |
|----------------------|----------------------------------------------------------------------|

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

|                                     |                                                                                                                                         |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms/effects                    | : May cause damage to organs through prolonged or repeated exposure. May cause an allergic skin reaction. Causes serious eye damage.    |
| Symptoms/effects after inhalation   | : 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.                                                                                                         |
| 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.                                                                                                                     |

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

### 2,2'-dichloro-4,4'-methylenedianiline; 4,4'-methylene bis(2-chloroaniline)101-14-4

|                 |                                                      |
|-----------------|------------------------------------------------------|
| LC50 - Fish [1] | 0.606 mg/l Test organisms (species): Oryzias latipes |
|-----------------|------------------------------------------------------|

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| 2,2'-dichloro-4,4'-methylenedianiline; 4,4'-methylene bis(2-chloroaniline)101-14-4 |                                                                                                                                          |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| EC50 - Crustacea [1]                                                               | 0.916 mg/l Test organisms (species): Daphnia magna                                                                                       |
| LOEC (chronic)                                                                     | 0.03 mg/l Test organisms (species): Daphnia magna Duration: '21 d'                                                                       |
| NOEC (chronic)                                                                     | 0.0095 mg/l Test organisms (species): Daphnia magna Duration: '21 d'                                                                     |
| 2,4-diamino-3,5-diethyltoluene; 2,4-diethyl-6-methyl-1,3-benzenediamine2095-02-5   |                                                                                                                                          |
| EC50 - Crustacea [1]                                                               | 0.5 mg/l Test organisms (species): Daphnia magna                                                                                         |
| Aliphatic solvent64742-47-8                                                        |                                                                                                                                          |
| LC50 - Fish [1]                                                                    | 2.4 mg/l Source: ECOTOX                                                                                                                  |
| ADDITIVE RHEOLOGICsegredo industrial                                               |                                                                                                                                          |
| LC50 - Fish [1]                                                                    | > 0.2 mg/l                                                                                                                               |
| EC50 - Crustacea [2]                                                               | > 0.2 mg/l                                                                                                                               |
| ErC50 algae                                                                        | > 0.025 mg/l                                                                                                                             |
| GLYCIDOXYPROPYL TRIMETHOXSILANE2530-83-8                                           |                                                                                                                                          |
| LC50 - Fish [1]                                                                    | 55 mg/l Test organisms (species): Cyprinus carpio                                                                                        |
| EC50 - Crustacea [1]                                                               | 710 mg/l Source: SIDS                                                                                                                    |
| EC50 96h - Algae [1]                                                               | 350 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum) |
| EC50 96h - Algae [2]                                                               | 250 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum) |
| ErC50 algae                                                                        | 350 mg/l Source: SIDS                                                                                                                    |
| LOEC (chronic)                                                                     | > 100 mg/l Test organisms (species): Daphnia magna Duration: '21 d'                                                                      |
| NOEC (chronic)                                                                     | ≥ 100 mg/l Test organisms (species): Daphnia magna Duration: '21 d'                                                                      |
| NOEC chronic crustacea                                                             | 82 mg/l                                                                                                                                  |
| NOEC chronic algae                                                                 | 107 mg/l                                                                                                                                 |

### 12.2. Persistence and degradability

| WEGTHANE HBD 52 1 BLUE RAL 5015 COMPONENT A                                        |                        |
|------------------------------------------------------------------------------------|------------------------|
| Persistence and degradability                                                      | Not rapidly degradable |
| 2,2'-dichloro-4,4'-methylenedianiline; 4,4'-methylene bis(2-chloroaniline)101-14-4 |                        |
| Persistence and degradability                                                      | Not rapidly degradable |
| 2,4-diamino-3,5-diethyltoluene; 2,4-diethyl-6-methyl-1,3-benzenediamine2095-02-5   |                        |
| Persistence and degradability                                                      | Not rapidly degradable |
| Aliphatic solvent64742-47-8                                                        |                        |
| Persistence and degradability                                                      | Not rapidly degradable |
| ADDITIVE RHEOLOGICsegredo industrial                                               |                        |
| Persistence and degradability                                                      | Not rapidly degradable |
| MICA12001-26-2                                                                     |                        |
| Persistence and degradability                                                      | Not rapidly degradable |

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### GLYCIDOPROPYL TRIMETHOXYSILANE2530-83-8

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

### 12.3. Bioaccumulative potential

#### 2,2'-dichloro-4,4'-methylenedianiline; 4,4'-methylene bis(2-chloroaniline)101-14-4

|                                                 |                   |
|-------------------------------------------------|-------------------|
| Partition coefficient n-octanol/water (Log Pow) | 3.73 Source: ECHA |
|-------------------------------------------------|-------------------|

#### 2,4-diamino-3,5-diethyltoluene; 2,4-diethyl-6-methyl-1,3-benzenediamine2095-02-5

|                                                 |                   |
|-------------------------------------------------|-------------------|
| Partition coefficient n-octanol/water (Log Pow) | 2.23 Source: QSAR |
|-------------------------------------------------|-------------------|

#### Aliphatic solvent64742-47-8

|                                                 |                        |
|-------------------------------------------------|------------------------|
| Partition coefficient n-octanol/water (Log Pow) | 3.3 – 6 Source: IUCLID |
|-------------------------------------------------|------------------------|

#### ADDITIVE RHEOLOGICsegredo industrial

|                                                 |       |
|-------------------------------------------------|-------|
| Partition coefficient n-octanol/water (Log Pow) | > 6.5 |
|-------------------------------------------------|-------|

### GLYCIDOPROPYL TRIMETHOXYSILANE2530-83-8

|                                                 |       |
|-------------------------------------------------|-------|
| Partition coefficient n-octanol/water (Log Pow) | -0.92 |
|-------------------------------------------------|-------|

### 12.4. Mobility in soil

No additional information available

### 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.                     |
| Sewage disposal recommendations            | : Disposal must be done according to official regulations.                         |
| Product/Packaging disposal recommendations | : 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>                                                                                                                                |                                                                                                                                  |                                                                                                                                  |
| 3082                                                                                                                                            | 3082                                                                                                                             | 3082                                                                                                                             |
| <b>UN Proper Shipping Name</b>                                                                                                                  |                                                                                                                                  |                                                                                                                                  |
| SUBSTÂNCIA QUE APRESENTA RISCO PARA O MEIO AMBIENTE, LÍQUIDA, N.E. (2,2'-dichloro-4,4'-methylenedianiline; 4,4'-methylene bis(2-chloroaniline)) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,2'-dichloro-4,4'-methylenedianiline; 4,4'-methylene bis(2-chloroaniline)) | Environmentally hazardous substance, liquid, n.o.s. (2,2'-dichloro-4,4'-methylenedianiline; 4,4'-methylene bis(2-chloroaniline)) |

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| Transport document description                                                    |                                                                                                                                                                    |                                                                                                                                                  |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Not applicable                                                                    | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,2'-dichloro-4,4'-methylenedianiline; 4,4'-methylene bis(2-chloroaniline)), 9, III, MARINE POLLUTANT | UN 3082 Environmentally hazardous substance, liquid, n.o.s. (2,2'-dichloro-4,4'-methylenedianiline; 4,4'-methylene bis(2-chloroaniline)), 9, III |
| Transport hazard class(es)                                                        |                                                                                                                                                                    |                                                                                                                                                  |
| 9                                                                                 | 9                                                                                                                                                                  | 9                                                                                                                                                |
| Danger labels                                                                     |                                                                                                                                                                    |                                                                                                                                                  |
| 9                                                                                 | 9                                                                                                                                                                  | 9                                                                                                                                                |
|  |                                                                                   |                                                               |
| Subsidiary risk                                                                   |                                                                                                                                                                    |                                                                                                                                                  |
| Not applicable                                                                    | Not applicable                                                                                                                                                     | Not applicable                                                                                                                                   |
| Risk Number                                                                       |                                                                                                                                                                    |                                                                                                                                                  |
| 90                                                                                | Not applicable                                                                                                                                                     | Not applicable                                                                                                                                   |
| Packing group                                                                     |                                                                                                                                                                    |                                                                                                                                                  |
| III                                                                               | III                                                                                                                                                                | III                                                                                                                                              |
| Special provisions                                                                |                                                                                                                                                                    |                                                                                                                                                  |
| 274,331,335,375                                                                   | 274,335,375,969                                                                                                                                                    | A97,A158,A197,A215                                                                                                                               |
| Dangerous for the environment                                                     |                                                                                                                                                                    |                                                                                                                                                  |
| 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 Abstract Service number  
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

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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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