

# WEGTHANE HBD 52 1 GRAY MUNSELL N6,5 COMPONENT A



## Safety Data Sheet

According to ABNT NBR 14725: 2023  
Issue date: 3/18/2025 Revision date: 6/17/2025 Version: 5.0

### SECTION 1: Identification

#### 1.1. GHS Product identifier

Product form : Mixture  
Trade name : WEGTHANE HBD 52 1 GRAY MUNSELL N6,5 COMPONENT A  
Product code : 17098894  
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	

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Germany			0800-181-7059
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.

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

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First-aid measures after eye contact	: advice/attention. : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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	: 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
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## SECTION 5: Fire-fighting measures

### 5.1. Suitable extinguishing media

Suitable extinguishing media	: Water spray, dry chemical powder, alcohol-resistant foam, carbon dioxide (CO <sub>2</sub> ).
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.
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#### 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.

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### 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.

### 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

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### MICA 12001-26-2

#### 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.
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	: Grey
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

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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/cm <sup>3</sup>
Solubility	: Material insoluble in water. 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	: 110 – 120 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
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### 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

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### SECTION 10: Stability and reactivity

Chemical stability	: Stable under normal conditions of use.
Conditions to avoid	: Extremely high or low temperatures. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Hazardous decomposition products	: On exposure to high temperature, may decompose, releasing corrosive gases.
Incompatible materials	: No additional information available.
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

#### 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
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#### 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
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#### ADDITIVE RHEOLOGIC (segredo industrial)

pH	7.8
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Serious eye damage/irritation	: Causes serious eye damage.
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#### ADDITIVE RHEOLOGIC (segredo industrial)

pH	7.8
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Respiratory or skin sensitisation	: May cause an allergic skin reaction.
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Germ cell mutagenicity : Not available  
Carcinogenicity : May cause cancer.

### 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) :  $\geq 3000$  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) :  $\geq 10$  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) :  $\geq 495$  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) :  $\geq 1000$  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 : 2.658 – 3.151 mm<sup>2</sup>/s

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

Viscosity, kinematic : 3.43 mm<sup>2</sup>/s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm<sup>2</sup>/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.

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<b>2,2'-dichloro-4,4'-methylenedianiline; 4,4'-methylene bis(2-chloroaniline)101-14-4</b>	
LC50 - Fish [1]	0.606 mg/l Test organisms (species): Oryzias latipes
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'
<b>2,4-diamino-3,5-diethyltoluene; 2,4-diethyl-6-methyl-1,3-benzenediamine2095-02-5</b>	
EC50 - Crustacea [1]	0.5 mg/l Test organisms (species): Daphnia magna
<b>Aliphatic solvent64742-47-8</b>	
LC50 - Fish [1]	2.4 mg/l Source: ECOTOX
<b>ADDITIVE RHEOLOGICsegredo industrial</b>	
LC50 - Fish [1]	> 0.2 mg/l
EC50 - Crustacea [2]	> 0.2 mg/l
ErC50 algae	> 0.025 mg/l
<b>GLYCIDOXYPROPYL TRIMETHOXYSILANE2530-83-8</b>	
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

<b>WEGTHANE HBD 52 1 GRAY MUNSELL N6,5 COMPONENT A</b>	
Persistence and degradability	Not rapidly degradable
<b>2,2'-dichloro-4,4'-methylenedianiline; 4,4'-methylene bis(2-chloroaniline)101-14-4</b>	
Persistence and degradability	Not rapidly degradable
<b>2,4-diamino-3,5-diethyltoluene; 2,4-diethyl-6-methyl-1,3-benzenediamine2095-02-5</b>	
Persistence and degradability	Not rapidly degradable
<b>Aliphatic solvent64742-47-8</b>	
Persistence and degradability	Not rapidly degradable
<b>ADDITIVE RHEOLOGICsegredo industrial</b>	
Persistence and degradability	Not rapidly degradable

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### MICA12001-26-2

Persistence and degradability	Not rapidly degradable
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### GLYCIDOXYPROPYL TRIMETHOXYSILANE2530-83-8

Persistence and degradability	Not rapidly degradable
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## 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
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### 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
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### Aliphatic solvent64742-47-8

Partition coefficient n-octanol/water (Log Pow)	3.3 – 6 Source: IUCLID
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### ADDITIVE RHEOLOGICsegredo industrial

Partition coefficient n-octanol/water (Log Pow)	> 6.5
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### GLYCIDOXYPROPYL TRIMETHOXYSILANE2530-83-8

Partition coefficient n-octanol/water (Log Pow)	-0.92
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## 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'-	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,2'-dichloro-4,4'-methylenedianiline; 4,4'-methylene bis(2-	Environmentally hazardous substance, liquid, n.o.s. (2,2'-dichloro-4,4'-methylenedianiline; 4,4'-methylene bis(2-chloroaniline))

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methylene bis(2-chloroaniline))	chloroaniline))	
<b>Transport document description</b>		
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
<b>Transport hazard class(es)</b>		
9	9	9
<b>Danger labels</b>		
9	9	9
<b>Subsidiary risk</b>		
Not applicable	Not applicable	Not applicable
<b>Risk Number</b>		
90	Not applicable	Not applicable
<b>Packing group</b>		
III	III	III
<b>Special provisions</b>		
274,331,335,375	274,335,375,969	A97,A158,A197,A215
<b>Dangerous for the environment</b>		
Yes	Yes	Yes

### 14.2 Other informations

No additional information available

## SECTION 15: Regulatory information

### 15.1. National regulations

Brazil Local Regulations

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

## SECTION 16: Other information

Abbreviations and acronyms

: CAS-No. - Chemical Abstract Service number

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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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