

# W-THANE HIDRO HPA 50 1 MEDIUM GRAY COMPONENT A

## Safety Data Sheet

According to ABNT NBR 14725: 2023

Issue date: 6/7/2024 Revision date: 5/18/2025 Version: 3.0



### SECTION 1: Identification

#### 1.1. GHS Product identifier

Product form : Mixture  
Trade name : W-THANE HIDRO HPA 50 1 MEDIUM GRAY COMPONENT A  
Product code : 13824010  
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)

Skin corrosion/irritation, Category 3

Hazardous to the aquatic environment - Acute Hazard, Category 3

Hazardous to the aquatic environment - Chronic Hazard, Category 3

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

#### GHS BR labelling

|                                   |                                                                                                                                                                                                                                                                                                  |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Signal word (GHS BR)              | : Warning                                                                                                                                                                                                                                                                                        |
| Hazard statements (GHS BR)        | : H316 - Causes mild skin irritation<br>H412 - Harmful to aquatic life with long lasting effects                                                                                                                                                                                                 |
| Precautionary statements (GHS BR) | : P273 - Avoid release to the environment.<br>P332+P313 - If skin irritation occurs: Get medical advice or attention.<br>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)                                                                                                                                                                               |
|-----------------------------|------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hydrocarbons, C9, aromatics | CAS-No.: 128601-23-0   | 1 – 5 | Flam. Liq. 3, H226<br>Acute Tox. 5 (Oral), H303<br>Acute Tox. 5 (Dermal), H313<br>Acute Tox. 3 (Inhalation:vapour), H331<br>STOT SE 3, H336<br>STOT SE 3, H335<br>Asp. Tox. 1, H304<br>Aquatic Acute 2, H401<br>Aquatic Chronic 2, H411 |

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| Name                | GHS Product identifier | %     | Classification according to GHS BR (ABNT NBR 14725: 2023) |
|---------------------|------------------------|-------|-----------------------------------------------------------|
| 1-BUTOXYPROPAN-2-OL | CAS-No.: 5131-66-8     | 1 – 5 | Skin Irrit. 2, H315<br>Eye Irrit. 2A, H319                |

## 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   | : 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. Be careful, the product may remain trapped under clothing, footwear or a wrist-watch. |
| 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   | : May cause irritation to the respiratory tract, sneezing, coughing, burning sensation of throat with constricting sensation of the larynx and difficulty in breathing. |
| Symptoms/effects after skin contact | : Causes mild skin irritation. Itching.                                                                                                                                 |
| Symptoms/effects after eye contact  | : May cause eye irritation.                                                                                                                                             |
| Symptoms/effects after ingestion    | : None under normal conditions.                                                                                                                                         |
| Chronic symptoms                    | : May cause cancer. May cause heritable genetic damage.                                                                                                                 |

### 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.                                                                                   |

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

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

- |                         |                                                                                                                                                                                       |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| For containment         | : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible. |
| 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. 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. Remove contaminated clothes. Do not eat, drink or smoke when using this product.                                                                                                                                                                                                                                                                                                                         |

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

- |                     |                                                                                  |
|---------------------|----------------------------------------------------------------------------------|
| Technical measures  | : Store locked up. Store in tightly closed, leak-proof containers.               |
| 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

No additional information available

### 8.2. Appropriate engineering controls

- |                                  |                                                                                                                            |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Appropriate engineering controls | : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------|

### 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:

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 applicable            |
| Melting point                                   | : Not available             |
| Freezing point                                  | : Not available             |
| Boiling point                                   | : Not available             |
| Flash point                                     | : > 97 °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                                         | : > 1.6 g/cm³               |
| Solubility                                      | : Water: Insoluble in water |
| Partition coefficient n-octanol/water (Log Kow) | : Not available             |
| Auto-ignition temperature                       | : Not available             |
| Decomposition temperature                       | : Not available             |
| Viscosity, kinematic                            | : Not applicable            |
| Viscosity, dynamic                              | : Not applicable            |
| Particle size                                   | : Not applicable            |
| Particle size distribution                      | : Not applicable            |
| Particle shape                                  | : Not applicable            |
| Particle aspect ratio                           | : Not applicable            |
| Particle specific surface area                  | : Not applicable            |

### Hydrocarbons, C9, aromatics128601-23-0

|               |          |
|---------------|----------|
| Boiling point | ≥ 180 °C |
| Flash point   | ≥ 51 °C  |

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### Hydrocarbons, C9, aromatics 128601-23-0

|                           |           |
|---------------------------|-----------|
| Auto-ignition temperature | > 400 °C  |
| Vapour pressure           | ≥ 0.2 kPa |

### 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 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 |

### Hydrocarbons, C9, aromatics (128601-23-0)

|                       |                         |
|-----------------------|-------------------------|
| LD50 oral rat         | ≥ 3492 mg/kg bodyweight |
| LD50 dermal rabbit    | ≥ 3160 mg/kg bodyweight |
| LC50 Inhalation - Rat | ≥ 4688 mg/m³            |

|                                   |                                                      |
|-----------------------------------|------------------------------------------------------|
| Skin corrosion/irritation         | : Causes mild skin irritation.<br>pH: Not applicable |
| Serious eye damage/irritation     | : Not available<br>pH: Not applicable                |
| Respiratory or skin sensitisation | : Not available                                      |
| Germ cell mutagenicity            | : Not available                                      |
| Carcinogenicity                   | : Not available                                      |
| Reproductive toxicity             | : Not available                                      |
| STOT-single exposure              | : Not available                                      |

### Hydrocarbons, C9, aromatics (128601-23-0)

|                      |                                                                      |
|----------------------|----------------------------------------------------------------------|
| STOT-single exposure | May cause drowsiness or dizziness. May cause respiratory irritation. |
|----------------------|----------------------------------------------------------------------|

|                        |                 |
|------------------------|-----------------|
| STOT-repeated exposure | : Not available |
|------------------------|-----------------|

### Hydrocarbons, C9, aromatics (128601-23-0)

|                                       |                            |
|---------------------------------------|----------------------------|
| LOAEC (inhalation, rat, gas, 90 days) | ≥ 1437 ppmv/6h/day         |
| NOAEL (oral, rat, 90 days)            | ≥ 600 mg/kg bodyweight/day |

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

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

### Hydrocarbons, C9, aromatics (128601-23-0)

|                      |              |
|----------------------|--------------|
| Viscosity, kinematic | ≥ 1.06 mm²/s |
|----------------------|--------------|

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

|                                     |                                                                                                                                                                         |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms/effects after inhalation   | : May cause irritation to the respiratory tract, sneezing, coughing, burning sensation of throat with constricting sensation of the larynx and difficulty in breathing. |
| Symptoms/effects after skin contact | : Causes mild skin irritation. Itching.                                                                                                                                 |
| Symptoms/effects after eye contact  | : May cause eye irritation.                                                                                                                                             |
| Symptoms/effects after ingestion    | : None under normal conditions.                                                                                                                                         |
| Chronic symptoms                    | : May cause cancer. May cause heritable genetic damage.                                                                                                                 |

## SECTION 12: Ecological information

### 12.1. Toxicity

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

### Hydrocarbons, C9, aromatics 128601-23-0

|                 |            |
|-----------------|------------|
| LC50 - Fish [1] | ≥ 9.2 mg/l |
|-----------------|------------|

|                |             |
|----------------|-------------|
| NOEC (chronic) | ≥ 0.34 mg/l |
|----------------|-------------|

### 12.2. Persistence and degradability

### W-THANE HIDRO HPA 50 1 MEDIUM GRAY COMPONENT A

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

### Hydrocarbons, C9, aromatics 128601-23-0

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

### 1-BUTOXYPROPAN-2-OL 5131-66-8

|                               |                        |
|-------------------------------|------------------------|
| 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 |
|------------------------------|-----------------|

## 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.                         |

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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.  
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 November 3, 2022, updates the regulation for road transport of dangerous goods, approves its Complementary Instructions, and other measures.

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### 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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