

POLITHERM 24 W-ZN R SM GRAY 18261 SM

Safety Data Sheet

According to ABNT NBR 14725: 2023
Issue date: 4/7/2025 Revision date: 5/12/2026 Version: 5.0



SECTION 1: Identification

1.1. GHS Product identifier

Product form : Mixture
Trade name : POLITHERM 24 W-ZN R SM GRAY 18261 SM
Product code : 15713886
Type of product : Paint
Product group : Trade product

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Recommended use : Electrostatic powder paint for surface coating.

1.4. Supplier's details

WEG TINTAS LTDA - GRUPO WEG

Guaramirim - Santa Catarina / Brasil

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

Mauá - São Paulo / Brasil

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

Cabo de Santo Agostinho - Pernambuco / Brasil

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

Betim - Minas Gerais / Brasil

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

Macaé - Rio de Janeiro / Brasil

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

Atotonilco de Tula - Estado de Hidalgo / México

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

Buenos Aires - Provincia de Buenos Aires / Argentina

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

1.5. Emergency phone number

Emergency number :

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

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POLITHERM 24 W-ZN R SM GRAY 18261 SM

15713886

Safety Data Sheet

According to ABNT NBR 14725: 2023

Revision date: 5/12/2026

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

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

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

Acute toxicity (oral), Category 5

Acute toxicity (dermal), Category 4

Skin corrosion/irritation, Category 2

Skin sensitisation, Category 1

Hazardous to the aquatic environment - Acute Hazard, Category 3

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)

: Warning

Hazard statements (GHS BR)

: H303 - May be harmful if swallowed

H312 - Harmful in contact with skin

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H402 - Harmful to aquatic life

H411 - Toxic to aquatic life with long lasting effects

Precautionary statements (GHS BR)

: P261 - Avoid breathing dust, fume, gas, mist, vapours or spray.

P264 - Wash hands, forearms and face thoroughly after handling.

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.

P301+P312 - IF SWALLOWED: Call a POISON CENTER or a doctor if you feel unwell.

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

P312 - Call a POISON CENTER or a doctor if you feel unwell.

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.

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

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POLITHERM 24 W-ZN R SM GRAY 18261 SM

15713886

Safety Data Sheet

According to ABNT NBR 14725: 2023

Revision date: 5/12/2026

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	GHS Product identifier	Conc. (% w/w)	Classification according to GHS BR (ABNT NBR 14725: 2023)
Poly(Bisphenol A-co-epichlorohydrin) glycidyl	CAS-No.: 25036-25-3	60 – 80	Acute Tox. 5 (Oral), H303 Acute Tox. 5 (Dermal), H313
PHENOL, POLYMER WITH FORMALDEHYDE, GLYCIDYL ETHER	CAS-No.: 28064-14-4	10 – 20	Acute Tox. 5 (Oral), H303 Acute Tox. 3 (Dermal), H311 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411
1-O-TOLYLBIGUANIDE	CAS-No.: 93-69-6	1 – 5	Acute Tox. 4 (Oral), H302 Acute Tox. 5 (Dermal), H313 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 3, H402 Aquatic Chronic 3, H412
ZINC DUST, STABILIZED	CAS-No.: 7440-66-6	1 – 5	Pyr. Sol. 1, H250 Water-react. 1, H260 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

SECTION 4: First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures general	: Seek medical attention immediately. 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. Be careful, the product may remain trapped under clothing, footwear or a wrist-watch. If skin irritation or rash occurs: Get medical advice/attention.
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	: If you feel unwell, seek medical advice.

4.2. Most important symptoms and effects, acute and delayed

Symptoms/effects	: May cause an allergic skin reaction.
Symptoms/effects after inhalation	: Dust of the product, if present, may cause respiratory irritation after excessive inhalation exposure. Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.
Symptoms/effects after skin contact	: Harmful in contact with skin. Causes skin irritation. irritation (itching, redness, blistering). Cracking of the skin. Prolonged or repeated contact may cause skin to become dry.
Symptoms/effects after eye contact	: May cause eye irritation.
Symptoms/effects after ingestion	: May be harmful if swallowed. Ingestion may cause nausea and vomiting.

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

Notes to physician	: Treat symptomatically
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POLITHERM 24 W-ZN R SM GRAY 18261 SM

15713886

Safety Data Sheet

According to ABNT NBR 14725: 2023

Revision date: 5/12/2026

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

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

5.2. Specific hazards arising from the chemical

- Fire hazard : 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.

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. 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. Harmful to aquatic life.

6.3. Methods and materials for containment and cleaning up

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

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 : Do not get in eyes, on skin, or on clothing. Contaminated work clothing should not be allowed out of the workplace. Ensure good ventilation of the work station. Wear personal protective equipment. Keep only in original container. Do not handle until all safety precautions have been read and understood.
Hygiene measures : Take off immediately all contaminated clothing and wash it before reuse. Always wash

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POLITHERM 24 W-ZN R SM GRAY 18261 SM

15713886

Safety Data Sheet

According to ABNT NBR 14725: 2023

Revision date: 5/12/2026

hands after handling the product. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep cool. Protect from sunlight. Store in a well-ventilated place. Keep cool.
Packaging materials : Always store product in container of same material as original container.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

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

8.3. Individual protection measures

Personal protective equipment:

Wear recommended personal protective equipment.

Hand protection:

Protective gloves made of PVC. Nitrile rubber gloves

Eye protection:

Wear security glasses which protect from splashes

Skin and body protection:

Chemical resistant safety shoes. Long sleeved protective clothing. Or chemical resistant apron

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 : Solid
Appearance : Dusty powder.
Colour : Grey
Odour : slight
Odour threshold : Not available
pH : Not applicable
Melting point : Not available
Freezing point : Not available

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POLITHERM 24 W-ZN R SM GRAY 18261 SM

15713886

Safety Data Sheet

According to ABNT NBR 14725: 2023

Revision date: 5/12/2026

Boiling point	: Not available
Flash point	: Not applicable
Relative evaporation rate (butylacetate=1)	: Not available
Flammability	: Not available
Explosive limits	: 50 – 70 g/m ³
Vapour pressure	: Not available
Relative vapour density at 20°C	: Not applicable
Relative density	: Not available
Density	: 2.5 g/cm ³
Solubility	: Insoluble in water, partially soluble in some solvents and thinners oxygen as acetone, ethyl acetate, methyl ethyl, ketone, among others.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: 300 °C
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: Not applicable
Particle size	: 25 — 60 µm
Particle size distribution	: Not available
Particle shape	: Not available
Particle aspect ratio	: Not available
Particle specific surface area	: Not available

Poly(Bisphenol A-co-epichlorohydrin) glycidyl25036-25-3

Flash point	> 200 °C
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PHENOL, POLYMER WITH FORMALDEHYDE, GLYCIDYL ETHER28064-14-4

Boiling point	> 245 °C
Flash point	218 °C
Vapour pressure	< 20 mm Hg

ZINC DUST, STABILIZED7440-66-6

Boiling point	907 °C Source: ECHA
Auto-ignition temperature	460 °C Source: ICSC
Vapour pressure	0 Pa at 400 Source: ECHA

9.2. Data relevant with regard to physical hazard classes

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

9.3. Further safety characteristics

No additional information available

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	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Incompatible materials	: Não armazenar com materiais explosivos, gases inflamáveis e/ou tóxicos, substâncias oxidantes, corrosivas e materiais que possam.
Possibility of hazardous reactions	: None under normal use.

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POLITHERM 24 W-ZN R SM GRAY 18261 SM

15713886

Safety Data Sheet

According to ABNT NBR 14725: 2023

Revision date: 5/12/2026

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) : May be harmful if swallowed.
Acute toxicity (dermal) : Harmful in contact with skin.
Acute toxicity (inhalation) : Not available

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ATE BR (oral)	2529.612 mg/kg bodyweight
ATE BR (dermal)	1079.284 mg/kg bodyweight
1-O-TOLYLBIGUANIDE (93-69-6)	
LD50 oral rat	800 mg/kg Source: National Library of Medicine
LD50 dermal rat	3170 mg/kg bodyweight
Poly(Bisphenol A-co-epichlorohydrin) glycidyl (25036-25-3)	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
PHENOL, POLYMER WITH FORMALDEHYDE, GLYCIDYL ETHER (28064-14-4)	
LD50 oral rat	> 2000 mg/kg Source: GESTIS
LD50 dermal rat	> 400 mg/kg Source: GESTIS
ZINC DUST, STABILIZED (7440-66-6)	
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LC50 Inhalation - Rat	> 5.41 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)

Skin corrosion/irritation : Causes skin irritation.
pH: Not applicable
Serious eye damage/irritation : Not available
pH: Not applicable
Respiratory or skin sensitisation : May cause an allergic skin reaction.
Germ cell mutagenicity : Not available
Carcinogenicity : Not available
Reproductive toxicity : Not available
STOT-single exposure : Not available
STOT-repeated exposure : Not available

ZINC DUST, STABILIZED (7440-66-6)	
NOAEL (oral, rat, 90 days)	31.25 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)

Aspiration hazard : Not available

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Viscosity, kinematic	Not applicable

ZINC DUST, STABILIZED (7440-66-6)	
Viscosity, kinematic	> 70.028 mm ² /s

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15713886

Safety Data Sheet

According to ABNT NBR 14725: 2023

Revision date: 5/12/2026

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

Symptoms/effects	: May cause an allergic skin reaction.
Symptoms/effects after inhalation	: Dust of the product, if present, may cause respiratory irritation after excessive inhalation exposure. Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.
Symptoms/effects after skin contact	: Harmful in contact with skin. Causes skin irritation. irritation (itching, redness, blistering). Cracking of the skin. Prolonged or repeated contact may cause skin to become dry.
Symptoms/effects after eye contact	: May cause eye irritation.
Symptoms/effects after ingestion	: May be harmful if swallowed. Ingestion may cause nausea and vomiting.

SECTION 12: Ecological information

12.1. Toxicity

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

1-O-TOLYLBIGUANIDE93-69-6

LC50 - Fish [1]	213.586 mg/l Source: Ecological Structure Activity Relationships
EC50 96h - Algae [1]	18.962 mg/l Source: Ecological Structure Activity Relationships

ZINC DUST, STABILIZED7440-66-6

LC50 - Fish [1]	0.182 – 2.01 mg/l
EC50 - Crustacea [1]	0.065 – 35 mg/l
ErC50 algae	0.106 – 2.05 mg/l

12.2. Persistence and degradability

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Persistence and degradability	Not rapidly degradable
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1-O-TOLYLBIGUANIDE93-69-6

Persistence and degradability	Not rapidly degradable
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Poly(Bisphenol A-co-epichlorohydrin) glycidyl25036-25-3

Persistence and degradability	Not rapidly degradable
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PHENOL, POLYMER WITH FORMALDEHYDE, GLYCIDYL ETHER28064-14-4

Persistence and degradability	Not rapidly degradable
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ZINC DUST, STABILIZED7440-66-6

Persistence and degradability	Not rapidly degradable
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12.3. Bioaccumulative potential

1-O-TOLYLBIGUANIDE93-69-6

Partition coefficient n-octanol/water (Log Pow)	1.05 Source: Quantitative Structure Activity Relation
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ZINC DUST, STABILIZED7440-66-6

Partition coefficient n-octanol/water (Log Pow)	-0.47 Source: NLM
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15713886

Safety Data Sheet

According to ABNT NBR 14725: 2023

Revision date: 5/12/2026

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

Waste treatment methods : Must follow special treatment according to local regulation.
Sewage disposal recommendations : Disposal must be done according to official regulations.
Product/Packaging disposal recommendations : Comply with applicable regulations for solid waste disposal. Disposal must be done according to official regulations.
Additional information : Do not re-use empty containers.

SECTION 14: Transport information

14.1 National and international Regulations

In accordance with IMDG / IATA / ANTT

ANTT	IMDG	IATA
UN number		
3077	3077	3077
UN Proper Shipping Name		
SUBSTÂNCIA QUE APRESENTA RISCO PARA O MEIO AMBIENTE, SÓLIDA, N.E.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	Environmentally hazardous substance, solid, n.o.s.
Transport document description		
Not applicable	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III, MARINE POLLUTANT	UN 3077 Environmentally hazardous substance, solid, n.o.s., 9, III
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

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POLITHERM 24 W-ZN R SM GRAY 18261 SM

15713886

Safety Data Sheet

According to ABNT NBR 14725: 2023

Revision date: 5/12/2026

Packing group		
III	III	III
Special provisions		
274,331,335,375	274,335,375,966,967,969	A97,A158,A179,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 Abstracts Service number
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road
BCF - Bioconcentration factor
EC50 - Median effective concentration
LC50 - Median lethal concentration
VOC - Volatile Organic Compounds
LD50 - Median lethal dose
DMEL - Derived Minimal Effect level
DNEL - Derived-No Effect Level
COD - Chemical oxygen demand (COD)
ATE - Acute Toxicity Estimate
IMDG - International Maritime Dangerous Goods
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

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POLITHERM 24 W-ZN R SM GRAY 18261 SM

15713886

Safety Data Sheet

According to ABNT NBR 14725: 2023

Revision date: 5/12/2026

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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11/11