

POLITHERM 77 SM YELLOW 20926 BR

Safety Data Sheet

According to ABNT NBR 14725: 2023
Issue date: 3/19/2025 SAP export date: 3/19/2025 Version: 1.0



SECTION 1: Identification

1.1. GHS Product identifier

Product form : Mixture
Trade name : POLITHERM 77 SM YELLOW 20926 BR
Product code : 16645748
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

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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 :
SPILL/TOXICOLOGY WGRA 0800 720 8000
CHEMTREC international number + 1 703-741-5970

Country	City	Local Number	Toll-Free Number
Austria	Vienna	43-13649237	
China		4001-204937	
France		33-975181407	
Germany	Frankfurt	49-69643508409	0800-181-7059

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India		000-800-100-7141	000-800-100-7141
Italy	Milan	39-0245557031	800-789-767
Italy		800-789-767	
Netherlands		31-858880596	
Russia		8-800-100-6346	8-800-100-6346
South Africa		0-800-983-611	0-800-983-611
United Kingdom	London	44-870-8200418	
United Kingdom		44-2038073798	
South korea			080-880-0468
Japan	tokyo		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
Serious eye damage/eye irritation, Category 1
Skin sensitisation, Category 1
Germ cell mutagenicity, Category 1B
Carcinogenicity, Category 1B
Reproductive toxicity, Category 1A
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)

: H303 - May be harmful if swallowed
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H340 - May cause genetic defects.
H350 - May cause cancer.
H360 - May damage fertility or the unborn child.
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.
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.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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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, 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)
LEAD SULFOCHROMATE YELLOW	CAS-No.: 1344-37-2	10 – 20	Carc. 1B, H350 Repr. 1A, H360 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
CALCIUM CARBONATE	CAS-No.: 471-34-1	5 – 10	Acute Tox. 5 (Oral), H303
TRIGLYCIDYL ISOCYANURATE	CAS-No.: 2451-62-9	1 – 5	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Inhalation), H331 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 1B, H340 STOT RE 2, H373 Aquatic Chronic 3, H412
TITANIUM DIOXIDE	CAS-No.: 13463-67-7	1 – 5	Carc. 2, H351

SECTION 4: First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures general : IF exposed or concerned: Get medical advice/attention. 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 present and easy to do. Continue rinsing.

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 damage to organs through prolonged or repeated exposure. May cause an

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Symptoms/effects after inhalation	: allergic skin reaction. Causes serious eye damage. : 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	: Cracking of the skin. Prolonged or repeated contact may cause skin to become dry. Causes severe burns. Irritation (itching, redness, blistering).
Symptoms/effects after eye contact	: Causes serious eye damage. stinging, redness, itching, tears.
Symptoms/effects after ingestion	: May be harmful if swallowed. Ingestion may cause nausea and vomiting. Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.
Chronic symptoms	: May cause cancer. May cause heritable genetic damage. May damage fertility. May damage the unborn child.

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, 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.
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.
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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.

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. Toxic to aquatic life.

6.3. Methods and materials for containment and cleaning up

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.

Precautions for safe handling : Obtain special instructions before use. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Wear personal protective equipment. 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 : 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

TITANIUM DIOXIDE 13463-67-7	
USA - OSHA - Occupational Exposure Limits	
Local name	Titanium dioxide (Total dust)
OSHA PEL TWA	15 mg/m ³
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
TRIGLYCIDYL ISOCYANURATE 2451-62-9	
USA - ACGIH - Occupational Exposure Limits	
Local name	1,3,5-Triglycidyl-s-triazinetriene
ACGIH OEL TWA	0.05 mg/m ³
Remark (ACGIH)	TLV® Basis: Male repro dam
Regulatory reference	ACGIH 2024

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.

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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	: Solid
Appearance	: Dusty powder.
Colour	: Yellow
Odour	: slight
Odour threshold	: Not available
pH	: Not applicable
Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flash point	: Not applicable
Relative evaporation rate (butylacetate=1)	: Not available
Flammability	: Not available
Explosive limits	: 50 – 70 g/m ³
Vapour pressure	: Not available
Relative vapour density at 20°C	: Not applicable
Relative density	: Not available
Density	: 1.76 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

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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	: On exposure to high temperature, may decompose, releasing corrosive gases.
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)	: May be harmful if swallowed.
Acute toxicity (dermal)	: Not available
Acute toxicity (inhalation)	: Not available

POLITHERM 77 SM YELLOW 20926 BR	
ATE BR (oral)	2531.646 mg/kg bodyweight
CALCIUM CARBONATE (471-34-1)	
LD50 oral rat	2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method), Guideline: EU Method B.1 bis (Acute Oral Toxicity - Fixed Dose Procedure)
LD50 dermal rat	2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal))
LC50 Inhalation - Rat	3 mg/m ³ Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Guideline: EU Method B.2 (Acute Toxicity (Inhalation)), Guideline: EPA OPPTS 870.1300 (Acute inhalation toxicity)
LEAD SULFOCHROMATE YELLOW (1344-37-2)	
LD50 oral rat	> 10000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
TITANIUM DIOXIDE (13463-67-7)	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure), Guideline: EPA OPPTS 870.1100 (Acute Oral Toxicity)
Skin corrosion/irritation	: Not available pH: Not applicable
CALCIUM CARBONATE (471-34-1)	
pH	10
Serious eye damage/irritation	: Causes serious eye damage. pH: Not applicable

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CALCIUM CARBONATE (471-34-1)	
pH	10
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: May cause genetic defects.
Carcinogenicity	: May cause cancer.
Reproductive toxicity	: May damage fertility or the unborn child.
STOT-single exposure	: Not available
STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.
CALCIUM CARBONATE (471-34-1)	
NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
NOAEC (inhalation, rat, dust/mist/fume, 90 days)	≥ 0.212 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)
LEAD SULFOCHROMATE YELLOW (1344-37-2)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
TRIGLYCIDYL ISOCYANURATE (2451-62-9)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not available
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Viscosity, kinematic	Not applicable

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	: 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	: Cracking of the skin. Prolonged or repeated contact may cause skin to become dry. Causes severe burns. irritation (itching, redness, blistering).
Symptoms/effects after eye contact	: Causes serious eye damage. stinging, redness, itching, tears.
Symptoms/effects after ingestion	: May be harmful if swallowed. Ingestion may cause nausea and vomiting. Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.
Chronic symptoms	: May cause cancer. May cause heritable genetic damage. May damage fertility. May damage the unborn child.

SECTION 12: Ecological information

12.1. Toxicity

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.

CALCIUM CARBONATE 471-34-1	
EC50 72h - Algae [1]	> 14 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
LEAD SULFOCHROMATE YELLOW 1344-37-2	
LC50 - Fish [1]	> 100 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)

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LEAD SULFOCHROMATE YELLOW1344-37-2	
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
NOEC (chronic)	0.7 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
TITANIUM DIOXIDE13463-67-7	
EC50 - Other aquatic organisms [1]	> 100 mg/l Test organisms (species):
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
LOEC (chronic)	5 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

12.2. Persistence and degradability

POLITHERM 77 SM YELLOW 20926 BR	
Persistence and degradability	Not rapidly degradable
CALCIUM CARBONATE471-34-1	
Persistence and degradability	Not rapidly degradable
LEAD SULFOCHROMATE YELLOW1344-37-2	
Persistence and degradability	Not rapidly degradable
TITANIUM DIOXIDE13463-67-7	
Persistence and degradability	Not rapidly degradable
TRIGLYCIDYL ISOCYANURATE2451-62-9	
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
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	: Comply with applicable regulations for solid waste disposal. Disposal must be done according to official regulations.
Additional information	: Do not re-use empty containers.

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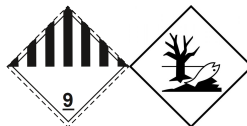
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SECTION 14: Transport information

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
Packing group		
III	III	III
Special provisions		
274,331,335,375	274,335,966,967,969	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

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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.

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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