

POLITHERM 47 R WF SM RED CHARLY 80191 BR

Safety Data Sheet

According to ABNT NBR 14725: 2023

Issue date: 7/21/2025 Revision date: 7/25/2025 Version: 2.0



SECTION 1: Identification

1.1. GHS Product identifier

Product form : Mixture
Trade name : POLITHERM 47 R WF SM RED CHARLY 80191 BR
Product code : 18801738
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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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)

Acute toxicity (oral), Category 5

Serious eye damage/eye irritation, Category 1

Skin sensitisation, Category 1

Germ cell mutagenicity, Category 1B

Hazardous to the aquatic environment - Acute Hazard, Category 1

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.

H400 - Very toxic to aquatic life

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.

P261 - Avoid breathing 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.

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

P310 - Immediately call a POISON CENTER or a doctor.

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.

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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	Conc. (% w/w)	Classification according to GHS BR (ABNT NBR 14725: 2023)
BARIUM SULFATE CHARGE	CAS-No.: 7727-43-7	20 – 40	Acute Tox. 5 (Oral), H303 Aquatic Acute 3, H402 Aquatic Chronic 3, H412
HARDENER POLYESTER 100-108	CAS-No.: 2451-62-9	1 – 5	Acute Tox. 3 (Oral), H301 Acute Tox. 5 (Dermal), H313 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Inhalation:dust,mist), H331 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 1B, H340 STOT RE 2, H373 Aquatic Acute 3, H402 Aquatic Chronic 3, H412
Pigment Red 170	CAS-No.: 2786-76-7	1 – 5	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
HYDROGENATED CASTOR OIL	CAS-No.: 8001-78-3	0.5 – 1	Acute Tox. 5 (Dermal), H313 Aquatic Acute 1, H400 Aquatic Chronic 4, H413

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 an allergic skin reaction. Causes serious eye damage.
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	: Cracking of the skin. Prolonged or repeated contact may cause skin to become dry.

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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.
Chronic symptoms	: May cause heritable genetic damage.

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. 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.

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	: Clear up rapidly by scoop or vacuum. Clean up immediately by sweeping or vacuum. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed

Precautions for safe handling

: Not expected to present a significant hazard under anticipated conditions of normal use.
: 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. 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 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.

Packaging materials

: Store always product in container of same material as original container.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

BARIUM SULFATE CHARGE 7727-43-7

USA - ACGIH - Occupational Exposure Limits

Local name	Barium sulfate
ACGIH® TLV® TWA	5 mg/m³ (I - Inhalable particulate matter, E - The value is for particulate matter containing no asbestos and < 1 % crystalline silica)
Remark (ACGIH)	TLV® Basis: Pneumoconiosis
Regulatory reference	ACGIH 2024

USA - OSHA - Occupational Exposure Limits

Local name	Barium sulfate
OSHA PEL TWA	15 mg/m³ (Total dust) 5 mg/m³ (Respirable fraction)
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

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

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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	: red
Odour	: characteristic
Odour threshold	: Not available
pH	: Not available
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	: 1.54 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
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

HYDROGENATED CASTOR OIL8001-78-3

Boiling point	300 °C Source: International Uniform Chemical Information DatabaseIUCILID
Flash point	300 °C Source: International Uniform Chemical Information DatabaseIUCILID

HARDENER POLYESTER 100-1082451-62-9

Flash point	> 148 °C Source: American Conference of Governmental Industrial HygienistsACGIH
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HARDENER POLYESTER 100-1082451-62-9

Auto-ignition temperature	200 °C
Vapour pressure	< 0.072 Pa at 20 °C Source: ChemIDplus

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	: 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)	: May be harmful if swallowed.
Acute toxicity (dermal)	: Not available
Acute toxicity (inhalation)	: Not available

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ATE BR (oral)	2955.607 mg/kg bodyweight
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BARIUM SULFATE CHARGE (7727-43-7)

LD50 oral rat	> 3000 mg/kg
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HYDROGENATED CASTOR OIL (8001-78-3)

LD50 oral rat	> 20000 mg/kg Source: ECHA
LD50 dermal rat	> 2000 mg/kg Source: ECHA

HARDENER POLYESTER 100-108 (2451-62-9)

LD50 oral rat	200 mg/kg Source: Existing Chemical Safety Safety Test of NIER
LD50 dermal rat	> 2000 mg/kg Source: IPCS
LC50 Inhalation - Rat (Dust/Mist)	0.65 mg/l

Skin corrosion/irritation	: Not available
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BARIUM SULFATE CHARGE (7727-43-7)

pH	8.5 – 10
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Pigment Red 170 (2786-76-7)

pH	6.5 – 8.5
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Serious eye damage/irritation	: Causes serious eye damage.
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BARIUM SULFATE CHARGE (7727-43-7)

pH	8.5 – 10
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Pigment Red 170 (2786-76-7)

pH	6.5 – 8.5
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Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : May cause genetic defects.

Carcinogenicity : Not available

Reproductive toxicity : Not available

STOT-single exposure : Not available

STOT-repeated exposure : Not available

HARDENER POLYESTER 100-108 (2451-62-9)

STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
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Aspiration hazard : Not available

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

Symptoms/effects : May cause an allergic skin reaction. Causes serious eye damage.

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 : Cracking of the skin. Prolonged or repeated contact may cause skin to become dry.

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.

Chronic symptoms : May cause heritable genetic damage.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short-term (acute) : Very toxic to aquatic life.

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

BARIUM SULFATE CHARGE 7727-43-7

EC50 - Crustacea [1]	32 mg/l Source: ECOTOX
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EC50 96h - Algae [1]	1890.263 mg/l Source: ECOSAR
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Pigment Red 170 2786-76-7

LC50 - Fish [1]	0.217 mg/l Source: Ecological Structure Activity Relationships
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EC50 96h - Algae [1]	0.06 mg/l Source: Ecological Structure Activity Relationships
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HYDROGENATED CASTOR OIL 8001-78-3

LC50 - Fish [1]	> 10000 mg/l Source: ECHA
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EC50 - Crustacea [1]	> 100 mg/l Source: ECHA
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ErC50 algae	> 0.01 mg/l Source: ECHA
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HARDENER POLYESTER 100-108 2451-62-9

LC50 - Fish [1]	> 77 mg/l Source: ECHA
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HARDENER POLYESTER 100-1082451-62-9

EC50 72h - Algae [1]	29 – 30 mg/l Source: ECHA
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12.2. Persistence and degradability

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Persistence and degradability	Not rapidly degradable
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BARIUM SULFATE CHARGE7727-43-7

Persistence and degradability	Not rapidly degradable
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Pigment Red 1702786-76-7

Persistence and degradability	Not rapidly degradable
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HYDROGENATED CASTOR OIL8001-78-3

Persistence and degradability	Not rapidly degradable
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HARDENER POLYESTER 100-1082451-62-9

Persistence and degradability	Not rapidly degradable
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12.3. Bioaccumulative potential

Pigment Red 1702786-76-7

Partition coefficient n-octanol/water (Log Pow)	6.04 Source: Ecological Structure Activity Relationships
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HYDROGENATED CASTOR OIL8001-78-3

Partition coefficient n-octanol/water (Log Pow)	18.75 Source: ECHA
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HARDENER POLYESTER 100-1082451-62-9

Partition coefficient n-octanol/water (Log Pow)	-0.8 Source: National Library of Medicine/Hazardous Substances Data BankNLM/HSDB
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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

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

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ANTT	IMDG	IATA
UN number		
Not applicable	Not applicable	Not applicable
UN Proper Shipping Name		
Not applicable	Not applicable	Not applicable
Transport hazard class(es)		
Not applicable	Not applicable	Not applicable
Danger labels		
Not applicable	Not applicable	Not applicable
Subsidiary risk		
Not applicable	Not applicable	Not applicable
Risk Number		
Not applicable	Not applicable	Not applicable
Packing group		
Not applicable	Not applicable	Not applicable
Special provisions		
Not applicable	Not applicable	Not applicable
Dangerous for the environment		
Not applicable	Not applicable	Not applicable

14.2 Other informations

No additional information available

SECTION 15: Regulatory information

15.1. National regulations

Brazil Local Regulations

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

SECTION 16: Other information

Abbreviations and acronyms

: CAS-No. - Chemical Abstract Service number
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road
BCF - Bioconcentration factor

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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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