

POLITHERM 27 R SM WHITE 66740 BR

Safety Data Sheet

according to ABNT NBR 14725-4
Issue date: 11/3/2023 SAP export date: 11/3/2023 Version: 1.0



SECTION 1: Identification of Product and Company

1.1. Product identifier

Trade name : POLITHERM 27 R SM WHITE 66740 BR
Product code : 10858909

1.2. Company identification

PAUMAR S.A. INDÚSTRIA E COMÉRCIO - GRUPO WEG
Rodovia BR 280 - km 50 CEP 89270-000, Guaramirim - Santa Catarina - Brasil

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 |
| 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: Hazards identification

2.1. Classification of the substance or mixture

Classification according to GHS BR (ABNT NBR 14725)

Acute toxicity (oral), Category 5
Serious eye damage/eye irritation, Category 1
Skin sensitisation, Category 1
Germ cell mutagenicity, Category 1B

2.2. Label elements

GHS BR labelling

Hazard pictograms (GHS BR) :



Signal word (GHS BR) : Danger

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POLITHERM 27 R SM WHITE 66740 BR

Safety Data Sheet

according to ABNT NBR 14725-4

| | |
|-----------------------------------|--|
| 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. |
| 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/spray. P272 - Contaminated work clothing should not be allowed out of the workplace. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 - IF ON SKIN: Wash with plenty of water. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 - IF exposed or concerned: Get medical advice/attention. P310 - Immediately call a POISON CENTER or doctor. P312 - Call a POISON CENTER or 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/attention. P362+P364 - Take off contaminated clothing and wash it before reuse. P405 - Store locked up. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. |

2.3. Other hazards not contributing to the classification

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | Conc. |
|---|---------------------|---------|
| titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter \leq 10 μm] | CAS-No.: 13463-67-7 | 20 – 30 |
| TRIGLYCIDYL ISOCYANURATE | CAS-No.: 2451-62-9 | 1 – 5 |

SECTION 4: First aid measures

4.1. Description of 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, both acute and delayed

| | |
|-----------------------------------|---|
| Symptoms/effects | : 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. |

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POLITHERM 27 R SM WHITE 66740 BR

Safety Data Sheet

according to ABNT NBR 14725-4

| | |
|-------------------------------------|--|
| 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 heritable genetic damage. |

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

| | |
|--------------------|-------------------------|
| Notes to physician | : Treat symptomatically |
|--------------------|-------------------------|

SECTION 5: Firefighting measures

5.1. 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. Special hazards arising from the substance or mixture

| | |
|------------------|--|
| Fire hazard | : In case of fire and/or explosion do not breathe fumes. |
| Explosion hazard | : No direct explosion hazard. |

5.3. Advice for firefighters

| | |
|--------------------------------|--|
| 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. |
|------------------|---|

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 material 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. |
| 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. |

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. |
|-----------------------------------|--|

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POLITHERM 27 R SM WHITE 66740 BR

Safety Data Sheet

according to ABNT NBR 14725-4

| | |
|-------------------------------|--|
| 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. 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

| | |
|---------------------|---|
| Technical measures | : Store locked up. |
| 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

| TRIGLYCIDYL ISOCYANURATE (2451-62-9) | |
|--|--|
| USA - ACGIH - Occupational Exposure Limits | |
| Local name | 1,3,5-Triglycidyl-s-triazinetrione |
| ACGIH OEL TWA | 0.05 mg/m ³ |
| Remark (ACGIH) | TLV® Basis: Male repro dam |
| Regulatory reference | ACGIH 2023 |
| titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (13463-67-7) | |
| USA - ACGIH - Occupational Exposure Limits | |
| Local name | Titanium dioxide |
| ACGIH OEL TWA | 0.2 mg/m ³ (Nanoscale particles. R - Respirable particulate matter) 2.5 mg/m ³ (Finescale particles. R - Respirable particulate matter) |
| Remark (ACGIH) | TLV® Basis: LRT irr; pneumoconiosis. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans) |
| Regulatory reference | ACGIH 2023 |
| USA - OSHA - Occupational Exposure Limits | |
| Local name | Titanium dioxide (Total dust) |
| OSHA PEL TWA [1] | 15 mg/m ³ |
| Regulatory reference (US-OSHA) | OSHA Annotated Table Z-1 |

8.2. Exposure controls

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

8.3. Personal protective equipment

Personal protective equipment:

Wear recommended personal protective equipment.

Hand protection:

Nitrile rubber gloves. Protective gloves made of PVC

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POLITHERM 27 R SM WHITE 66740 BR

Safety Data Sheet

according to ABNT NBR 14725-4

Eye protection:

Wear closed safety glasses

Skin and body protection:

Long sleeved protective clothing. Chemical resistant apron. Wear impervious rubber 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. Information on basic physical and chemical properties

| | |
|---|---|
| Physical state | : Solid |
| Appearance | : Dusty powder. |
| Colour | : white |
| 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 | : Not available |
| Vapour pressure | : Not available |
| Relative vapour density at 20°C | : Not available |
| Relative density | : Not available |
| Density | : 1.58 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 available |
| Decomposition temperature | : 300 °C |
| Viscosity, kinematic | : Not applicable |
| Viscosity, dynamic | : Not applicable |

9.2. Other information

Not 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. |

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POLITHERM 27 R SM WHITE 66740 BR

Safety Data Sheet

according to ABNT NBR 14725-4

| | | |
|------------------------------------|---|--|
| 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 27 R SM WHITE 66740 BR | |
|---|--|
| ATE BR (oral) | 2197.802 mg/kg bodyweight |
| titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$] (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 |
| Serious eye damage/irritation | : | Causes serious eye damage. pH: Not applicable |
| 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 |

| TRIGLYCIDYL ISOCYANURATE (2451-62-9) | |
|--------------------------------------|--|
| STOT-repeated exposure | May cause damage to organs through prolonged or repeated exposure. |

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

| POLITHERM 27 R SM WHITE 66740 BR | |
|----------------------------------|----------------|
| Viscosity, kinematic | Not applicable |

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 | : | 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 heritable genetic damage. |

SECTION 12: Ecological information

12.1. Toxicity

| | | |
|---|---|---------------|
| Hazardous to the aquatic environment, short-term (acute) | : | Not available |
| Hazardous to the aquatic environment, long-term (chronic) | : | Not available |

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POLITHERM 27 R SM WHITE 66740 BR

Safety Data Sheet

according to ABNT NBR 14725-4

| titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$] (13463-67-7) | |
|--|---|
| LC50 - Fish [1] | > 100 mg/l |
| EC50 - Other aquatic organisms [1] | > 100 mg/l Test organisms (species): |
| LOEC (chronic) | 5 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |

12.2. Persistence and degradability

No additional information available

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.

SECTION 14: Transport information

National and international Regulations

| ANTT | IMDG | IATA |
|-----------------------------------|----------------|----------------|
| UN number | | |
| Not applicable | Not applicable | Not applicable |
| UN Proper Shipping Name | | |
| 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 | | |
| Packing group | | |
| Not applicable | Not applicable | Not applicable |

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POLITHERM 27 R SM WHITE 66740 BR

Safety Data Sheet

according to ABNT NBR 14725-4

| ANTT | IMDG | IATA |
|--------------------------------------|----------------|----------------|
| Special provisions | | |
| Not applicable | Not applicable | Not applicable |
| Dangerous for the environment | | |
| No | No | No |

14.2 Other information

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.

POLITHERM 27 R SM WHITE 66740 BR

Safety Data Sheet

according to ABNT NBR 14725-4

SECTION 16: Other information

Abbreviations and acronyms

: 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
ATE - Acute Toxicity Estimate
BCF - Bioconcentration factor
CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL - Derived Minimal Effect level
DNEL - Derived-No Effect Level
DPD - Dangerous Preparations Directive 1999/45/EC
DSD - Dangerous Substances Directive 67/548/EEC
EC50 - Median effective concentration
IARC - International Agency for Research on Cancer
IATA - International Air Transport Association
IMDG - International Maritime Dangerous Goods
LC50 - Median lethal concentration
LD50 - Median lethal dose
LOAEL - Lowest Observed Adverse Effect Level
NOAEC - No-Observed Adverse Effect Concentration
NOAEL - No-Observed Adverse Effect Level
NOEC - No-Observed Effect Concentration
OECD - Organisation for Economic Co-operation and Development
PBT - Persistent Bioaccumulative Toxic
PNEC - Predicted No-Effect Concentration
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS - Safety Data Sheet
STP - Sewage treatment plant
TLM - Median Tolerance Limit
vPvB - Very Persistent and Very Bioaccumulative
BLV - Biological limit value
BOD - Biochemical oxygen demand (BOD)
CAS-No. - Chemical Abstract Service number
COD - Chemical oxygen demand (COD)
EC-No. - European Community number
EN - European Standard
IOELV - Indicative Occupational Exposure Limit Value
N.O.S. - Not Otherwise Specified
OEL - Occupational Exposure Limit
ThOD - Theoretical oxygen demand (ThOD)
TRGS - Technical Rules for Hazardous Substances
VOC - Volatile Organic Compounds

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.