

# POLITHERM 27 R SM GREEN 24542 BR

## Safety Data Sheet

According to ABNT NBR 14725: 2023  
Issue date: 4/30/2024 Revision date: 3/4/2025 SAP export date: 4/30/2024 Version: 2.0



### SECTION 1: Identification

#### 1.1. GHS Product identifier

Product form : Mixture  
Trade name : POLITHERM 27 R SM GREEN 24542 BR  
Product code : 17898978  
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

:  
**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 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.

H351 - Suspected of causing cancer.

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.

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.

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.

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### 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)                                                                                                              |
|----------------------------|------------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TITANIUM DIOXIDE           | CAS-No.: 13463-67-7    | 5 – 10 | Carc. 2, H351                                                                                                                                                          |
| HARDENER POLYESTER 100-108 | CAS-No.: 2451-62-9     | 1 – 5  | Acute Tox. 3 (Oral), H301<br>Acute Tox. 3 (Inhalation), H331<br>Eye Dam. 1, H318<br>Skin Sens. 1, H317<br>Muta. 1B, H340<br>STOT RE 2, H373<br>Aquatic Chronic 3, H412 |

## 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   | : 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                    | : Suspected carcinogen. May cause heritable genetic damage.                                                                                                             |

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

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

## SECTION 5: Fire-fighting measures

### 5.1. Suitable extinguishing media

|                              |                                                          |
|------------------------------|----------------------------------------------------------|
| Suitable extinguishing media | : Water spray. earth, sand, dry chemical powder or foam. |
|------------------------------|----------------------------------------------------------|

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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.

#### 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 : 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 : 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 : 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.

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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 <sup>3</sup>          |
| 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

#### 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          | : Green          |
| Odour           | : characteristic |
| Odour threshold | : Not available  |
| pH              | : Not available  |
| Melting point   | : Not available  |

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|                                                 |                                                                                                                                             |
|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| 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 <sup>3</sup>                                                                                                                  |
| Vapour pressure                                 | : Not available                                                                                                                             |
| Relative vapour density at 20°C                 | : Not applicable                                                                                                                            |
| Relative density                                | : Not available                                                                                                                             |
| Density                                         | : 1.56 g/cm <sup>3</sup>                                                                                                                    |
| 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                                                                                                                             |

### 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             | : Consult supplier(s) of these materials for specific recommendations.                                                               |
| 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 GREEN 24542 BR  |                                                                                                                                                                                          |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ATE BR (oral)                     | 2197.802 mg/kg bodyweight                                                                                                                                                                |
| 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                                                                                                                                                                          |
| Serious eye damage/irritation     | : Causes serious eye damage.                                                                                                                                                             |
| Respiratory or skin sensitisation | : May cause an allergic skin reaction.                                                                                                                                                   |

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|                        |                                |
|------------------------|--------------------------------|
| Germ cell mutagenicity | : May cause genetic defects.   |
| Carcinogenicity        | : Suspected of causing cancer. |
| 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. |
| 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   | : 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                    | : Suspected carcinogen. 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 classified. |

### 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 27 R SM GREEN 24542 BR

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

#### TITANIUM DIOXIDE13463-67-7

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

#### HARDENER POLYESTER 100-1082451-62-9

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

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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

#### 14.1 National and international Regulations

In accordance with IMDG / IATA / ANTT

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

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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.

### 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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