

POLITHERM 77 SM ORANGE ULB 25146 SB

Safety Data Sheet

According to ABNT NBR 14725: 2023
Issue date: 12/12/2023 Revision date: 1/20/2026 Version: 7.0



SECTION 1: Identification

1.1. GHS Product identifier

Product form : Mixture
Trade name : POLITHERM 77 SM ORANGE ULB 25146 SB
Product code : 17654585
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 :

| | | | |
|--------------------------------------|----------------------------------|---------------------|-------------------------|
| 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 | |
| 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)

Carcinogenicity, Category 1B

Reproductive toxicity, Category 1A

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)

: H350 - May cause cancer.

H360 - May damage fertility or the unborn child.

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.

P273 - Avoid release to the environment.

P280 - Wear protective gloves, protective clothing, eye protection, face protection and hearing protection.

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

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

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3.2. Mixtures

| Name | GHS Product identifier | Conc. (% w/w) | Classification according to GHS BR (ABNT NBR 14725: 2023) |
|---------------------------|------------------------|---------------|---|
| | - | 5 – 10 | Carc. 1B, H350 Repr. 1A, H360 Aquatic Acute 2, H401 Aquatic Chronic 2, H411 |
| 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 |
| TRIGLYCIDYL ISOCYANURATE | 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 |
| 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. |
| First-aid measures after inhalation | : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. |
| First-aid measures after skin contact | : After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. |
| First-aid measures after eye contact | : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. |
| First-aid measures after ingestion | : Do NOT induce vomiting. Rinse mouth out with water. |

4.2. Most important symptoms and effects, acute and delayed

| | |
|-------------------------------------|--|
| 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 | : None under normal conditions. Dust may cause irritation in skin folds or by contact in combination with tight clothing. |
| Symptoms/effects after eye contact | : None under normal conditions. Dust from this product may cause eye irritation. |
| Symptoms/effects after ingestion | : None under normal conditions. |
| Chronic symptoms | : May cause cancer. 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 : No fire hazard.

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 : Wear recommended personal protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : May be harmful to aquatic organisms, to flora, to soil organisms. Clean up any spills as soon as possible, using an absorbent material to collect it. Stop leak if safe to do so. Notify authorities if product enters sewers or public waters.

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : Evacuate area. Only qualified personnel equipped with suitable protective equipment may intervene. Notify fire brigade and environmental authorities.

6.1.2. For emergency responders

Protective equipment : 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.

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

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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep cool. Protect from sunlight. Store in a well-ventilated place. Keep cool.
Packaging materials : 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® TLV® TWA | 0.05 mg/m³ |
| Remark (ACGIH) | TLV® Basis: Male repro dam |
| Regulatory reference | ACGIH 2025 |

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

8.3. Individual protection measures

Personal protective equipment:

Wear recommended personal protective equipment.

Hand protection:

Protective gloves

Eye protection:

Wear security glasses which protect from splashes

Skin and body protection:

Wear suitable protective clothing

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.

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| | |
|---|---|
| Colour | : Orange |
| 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 | : 1.87 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 |

| | |
|---------------|------------|
| Particle size | 25 – 60 µm |
|---------------|------------|

TRIGLYCIDYL ISOCYANURATE2451-62-9

| | |
|---------------------------|---|
| Boiling point | > 240 °C Atm. press.: 103500 Pa Decomposition: 'yes' Decomp. temp.: 240 °C |
| Flash point | > 148 °C Source: American Conference of Governmental Industrial HygienistsACGIH |
| 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

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

9.3. Further safety characteristics

No additional information available

SECTION 10: Stability and reactivity

| | |
|---------------------|--|
| Chemical stability | : Stable under normal conditions of use. |
| Conditions to avoid | : Extremely high or low temperatures. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |

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| | |
|------------------------------------|--|
| Hazardous decomposition products | : Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| 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) | : Not available |
| Acute toxicity (dermal) | : Not available |
| Acute toxicity (inhalation) | : Not available |

HYDROGENATED CASTOR OIL (8001-78-3)

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

LEAD SULFOCHROMATE YELLOW (1344-37-2)

| | |
|---------------|---|
| LD50 oral rat | > 10000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity) |
|---------------|---|

TRIGLYCIDYL ISOCYANURATE (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 |
| Serious eye damage/irritation | : Not available |
| Respiratory or skin sensitisation | : Not available |
| Germ cell mutagenicity | : Not available |
| Carcinogenicity | : May cause cancer. |
| Reproductive toxicity | : May damage fertility or the unborn child. |
| STOT-single exposure | : Not available |
| STOT-repeated exposure | : Not available |

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

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

| | |
|-------------------------------------|--|
| 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 | : None under normal conditions. Dust may cause irritation in skin folds or by contact in combination with tight clothing. |
| Symptoms/effects after eye contact | : None under normal conditions. Dust from this product may cause eye irritation. |
| Symptoms/effects after ingestion | : None under normal conditions. |
| Chronic symptoms | : May cause cancer. May damage fertility. May damage the unborn child. |

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SECTION 12: Ecological information

12.1. Toxicity

| | |
|---|---|
| Ecology - general | : Toxic to aquatic life with long lasting effects. Toxic to aquatic life. |
| 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. |

HYDROGENATED CASTOR OIL8001-78-3

| | |
|----------------------|---------------------------|
| LC50 - Fish [1] | > 10000 mg/l Source: ECHA |
| EC50 - Crustacea [1] | > 100 mg/l Source: ECHA |
| ErC50 algae | > 0.01 mg/l Source: ECHA |

LEAD SULFOCHROMATE YELLOW1344-37-2

| | |
|----------------------|---|
| LC50 - Fish [1] | > 100 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) |
| 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' |

TRIGLYCIDYL ISOCYANURATE2451-62-9

| | |
|----------------------|---------------------------|
| LC50 - Fish [1] | > 77 mg/l Source: ECHA |
| EC50 72h - Algae [1] | 29 – 30 mg/l Source: ECHA |

12.2. Persistence and degradability

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

HYDROGENATED CASTOR OIL8001-78-3

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

LEAD SULFOCHROMATE YELLOW1344-37-2

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

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

TRIGLYCIDYL ISOCYANURATE2451-62-9

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

12.3. Bioaccumulative potential

HYDROGENATED CASTOR OIL8001-78-3

| | |
|---|--------------------|
| Partition coefficient n-octanol/water (Log Pow) | 18.75 Source: ECHA |
|---|--------------------|

TRIGLYCIDYL ISOCYANURATE2451-62-9

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

SECTION 13: Disposal considerations

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

SECTION 14: Transport information

14.1 National and international Regulations

In accordance with IMDG / IATA / ANTT

| ANTT | IMDG | IATA |
|--|--|--|
| UN number | | |
| 3077 | 3077 | 3077 |
| UN Proper Shipping Name | | |
| SUBSTÂNCIA QUE APRESENTA RISCO PARA O MEIO AMBIENTE, SÓLIDA, N.E. | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. | Environmentally hazardous substance, solid, n.o.s. |
| Transport document description | | |
| Not applicable | UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III, MARINE POLLUTANT | UN 3077 Environmentally hazardous substance, solid, n.o.s., 9, III |
| Transport hazard class(es) | | |
| 9 | 9 | 9 |
| Danger labels | | |
| 9  | 9  | 9  |
| Subsidiary risk | | |
| Not applicable | Not applicable | Not applicable |
| Risk Number | | |
| 90 | Not applicable | Not applicable |

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| Packing group | | |
|-------------------------------|-------------------------|-------------------------|
| III | III | III |
| Special provisions | | |
| 274,331,335,375 | 274,335,375,966,967,969 | A97,A158,A179,A197,A215 |
| Dangerous for the environment | | |
| Yes | Yes | Yes |

14.2 Other informations

No additional information available

SECTION 15: Regulatory information

15.1. National regulations

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

SECTION 16: Other information

Abbreviations and acronyms : CAS-No. - Chemical 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

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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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