

# LACKTHERM 0004 CATALYST

## Safety Data Sheet

According to ABNT NBR 14725: 2023  
Issue date: 2/5/2024 Revision date: 4/7/2025 SAP export date: 2/11/2025 Version: 7.0



### SECTION 1: Identification

#### 1.1. GHS Product identifier

Product form : Substance  
Trade name : LACKTHERM 0004 CATALYST  
Product code : 11684243  
Type of product : Catalyst  
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 : Uses in coatings - Curing agent for component A.

#### 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 :

|                                      |             |                                  |                         |
|--------------------------------------|-------------|----------------------------------|-------------------------|
| <b>24-HOUR EMERGENCY - AMBIPAR</b>   |             | 0800 117 2020                    |                         |
| <b>CHEMTREC international number</b> |             | +1-703-527-3887 e 1-800-424-9300 |                         |
| <b>Country</b>                       | <b>City</b> | <b>Local Number</b>              | <b>Toll-Free Number</b> |
| 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)

Flammable liquids, Category 3

Self-Reactive Substances and Mixtures, Type B

Organic Peroxides, Type E

Acute toxicity (inhalation:vapour) Category 2

Skin corrosion/irritation, Category 2

Skin sensitisation, Category 1

Carcinogenicity, 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)

: H226 - Flammable liquid and vapour  
H241 - Heating may cause a fire or explosion  
H242 - Heating may cause a fire  
H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H330 - Fatal if inhaled  
H350 - May cause cancer.  
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.  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.  
No smoking.  
P234 - Keep only in original packaging.  
P240 - Ground and bond container and receiving equipment.  
P241 - Use explosion-proof equipment.  
P242 - Use non-sparking tools.  
P243 - Take action to prevent static discharges.  
P260 - Do not breathe dust, fume, gas, mist, vapours or spray.

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P264 - Wash hands, forearms and face thoroughly after handling.  
P271 - Use only outdoors or in a well-ventilated area.  
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.  
P284 - Wear respiratory protection.  
P302+P352 - IF ON SKIN: Wash with plenty of water.  
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water .  
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P308+P313 - IF exposed or concerned: Get medical advice or attention.  
P310 - Immediately call a POISON CENTER or a doctor.  
P320 - Specific treatment is urgent (see supplemental first aid instruction on this label).  
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.  
P370+P378 - In case of fire: Use appropriate media to extinguish.  
P370+P380+P375[+378] - In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. Use appropriate media to extinguish.  
P391 - Collect spillage.  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.  
P403+P235 - Store in a well-ventilated place. Keep cool.  
P405 - Store locked up.  
P410 - Protect from sunlight.  
P411 - Store at temperatures not exceeding the recommended value .  
P420 - Store separately.  
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

Name : CATALISADOR LACKTHERM 0004 COMP B

| Name                                                | GHS Product identifier | %       | Classification according to GHS BR (ABNT NBR 14725: 2023)                                                                                                         |
|-----------------------------------------------------|------------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TERT-BUTYL PERBENZOATE                              | CAS-No.: 614-45-9      | 60 – 80 | Self-react. C, H242<br>Acute Tox. 4 (Inhalation:dust,mist), H332<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Aquatic Acute 1, H400<br>Aquatic Chronic 3, H412 |
| TERT-BUTYL CUMYL PEROXIDE                           | CAS-No.: 3457-61-2     | 10 – 20 | Org. Perox. E, H242<br>Skin Irrit. 2, H315<br>Aquatic Chronic 2, H411                                                                                             |
| 1,1-DI(TERT-BUTYLPEROXY)-3,3,5-TRIMETHYLCYCLOHEXANE | CAS-No.: 6731-36-8     | 5 – 10  | Self-react. B, H241                                                                                                                                               |

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| Name                     | GHS Product identifier | %          | Classification according to GHS BR (ABNT NBR 14725: 2023)                                               |
|--------------------------|------------------------|------------|---------------------------------------------------------------------------------------------------------|
| ISODODECANE              | CAS-No.: 13475-82-6    | 5 – 10     | Flam. Liq. 3, H226<br>Asp. Tox. 1, H304<br>Aquatic Chronic 4, H413                                      |
| CUMENE                   | CAS-No.: 98-82-8       | 0.25 – 0.5 | Flam. Liq. 3, H226<br>Carc. 1B, H350<br>STOT SE 3, H335<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411 |
| tert-butyl hydroperoxide | CAS-No.: 75-91-2       | 0.1 – 0.25 | Muta. 2, H341                                                                                           |

### 3.2. Mixtures

Not applicable

## 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. Give oxygen or artificial respiration if necessary. Immediately call a POISON CENTER/doctor.                                                                                                                |
| First-aid measures after skin contact | : After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Be careful, the product may remain trapped under clothing, footwear or a wrist-watch. If skin irritation or rash occurs: Get medical advice/attention. |
| 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                    | : Fatal if inhaled. May cause severe burns. May cause an allergic skin reaction.                                                                                                                                                                        |
| Symptoms/effects after inhalation   | : May cause shortness of breath, tightness of the chest, a sore throat and cough. 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 | : Causes skin irritation. irritation (itching, redness, blistering). Cracking of the skin. Prolonged or repeated contact may cause skin to become dry.                                                                                                  |
| Symptoms/effects after eye contact  | : stinging. Redness. Risk of serious damage to eyes.                                                                                                                                                                                                    |
| Symptoms/effects after ingestion    | : Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.                                                                                                                                                                  |
| Chronic symptoms                    | : May cause cancer.                                                                                                                                                                                                                                     |

### 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 | : Dry chemical, CO2, or water spray or regular foam. Flood fire area with water from a distance. |
|------------------------------|--------------------------------------------------------------------------------------------------|

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Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Specific hazards arising from the chemical

- Fire hazard : Flammable liquid and vapour. The vapours are denser than air and may travel along the ground. Distance ignition possible. Agitation can cause build up of electrostatic charge. Vapours may cause fire/explosion if source of ignition is present. Watch out for invisible flames. Heating may cause a fire. Contact with combustible material may cause fire. In case of fire and/or explosion do not breathe fumes.
- Explosion hazard : Vapours may form explosive mixture with air. Prolonged exposure to fire may cause containers to rupture/explode. Explosive when mixed with combustible material. Heating may cause a fire or explosion.

### 5.3. Special protective actions for fire-fighters

- Firefighting instructions : Get the package away from the fire if this can be done without risk. Fight fire from a safe distance or use hoses with support or cannon engine. Cool laterally with water containers exposed to flames, even after the fire is extinguished. Eliminate all ignition sources if safe to do so. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. Do not enter fire area without proper protective equipment, including respiratory protection.
- Protection during firefighting : Use self-contained breathing apparatus and chemically protective clothing. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus.
- Other information : On exposure to high temperature, may decompose, releasing toxic gases.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Eliminate every possible source of ignition. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Avoid contact with skin and eyes. May be harmful to aquatic organisms, to flora, to soil organisms. Clean up any spills as soon as possible, using an absorbent material to collect it. Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.

#### 6.1.1. For non-emergency personnel

- Protective equipment : Wear recommended personal protective equipment.
- Emergency procedures : No flames, no sparks. Eliminate all sources of ignition. Do not touch or walk on the spilled product. 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 : Use self-contained breathing apparatus and chemically protective clothing. Gloves. Wear security glasses which protect from splashes. Self-contained breathing apparatus. Use explosion-proof equipment. Total impervious protective suits, gloves, and boots must be worn to prevent any contact with the product. Equip cleanup crew with proper protection.
- Emergency procedures : Keep away from combustible material. All equipment used when handling the product must be grounded. Evacuate unnecessary personnel. Stop leak if safe to do so.

### 6.2. Environmental precautions

Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Toxic to aquatic life with long lasting effects. Do not allow product to spread into the environment. Very toxic to aquatic life. Notify authorities if product enters sewers or public waters.

### 6.3. Methods and materials for containment and cleaning up

- For containment : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.
- Methods for cleaning up : Absorb remaining liquid with sand or inert absorbent and remove to safe place. Soak up with inert absorbent material (for example sand, sawdust, a universal binder, silica gel).

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Absorb spilled material with sand or earth. Collect leaking and spilled liquid in sealable containers as far as possible. Clean contaminated surfaces with an excess of water. Take up liquid spill into absorbent material.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Additional hazards when processed

Precautions for safe handling

- : Flammable vapours may accumulate in the container.
- : Provide adequate ventilation to minimize dust and/or vapour concentrations. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Handle carefully. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Prevent the build-up of electrostatic charge. 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. Do not get in eyes, on skin, or on clothing. Contaminated work clothing should not be allowed out of the workplace. Ensure good ventilation of the work station. Keep only in original container. Do not handle until all safety precautions have been read and understood.

Hygiene measures

- : Always wash hands after handling the product. Take off immediately all contaminated clothing and wash it before reuse. Do not eat, drink or smoke when using this product.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures

- : Ensure adequate ventilation, especially in confined areas. Use only non-sparking tools. Ground/bond container and receiving equipment. Store locked up. Store in tightly closed, leak-proof containers.

Storage conditions

- : Keep cool. Store in a well-ventilated place. Keep container tightly closed. Keep only in original container. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep in fireproof place. Store away from other materials. Store in a well-ventilated place. Keep cool. Keep cool. Protect from sunlight. Store in a well-ventilated place. Keep container tightly closed.

Incompatible materials

- : combustible materials.

Packaging materials

- : Keep only in the original container in a cool, well-ventilated place away from combustible materials.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

| CUMENE 98-82-8                             |                                                                                                                         |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| USA - ACGIH - Occupational Exposure Limits |                                                                                                                         |
| Local name                                 | Cumene                                                                                                                  |
| ACGIH OEL TWA                              | 5 ppm                                                                                                                   |
| Remark (ACGIH)                             | TLV® Basis: URT adenoma; neurological eff. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans) |
| Regulatory reference                       | ACGIH 2024                                                                                                              |
| USA - OSHA - Occupational Exposure Limits  |                                                                                                                         |
| Local name                                 | Cumene                                                                                                                  |
| OSHA PEL TWA                               | 245 mg/m³                                                                                                               |
|                                            | 50 ppm                                                                                                                  |

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### CUMENE 98-82-8

|                                |                          |
|--------------------------------|--------------------------|
| Regulatory reference (US-OSHA) | OSHA Annotated Table Z-1 |
|--------------------------------|--------------------------|

### tert-butyl hydroperoxide 75-91-2

#### USA - ACGIH - Occupational Exposure Limits

|                      |                                                                                           |
|----------------------|-------------------------------------------------------------------------------------------|
| Local name           | tert-Butyl hydroperoxide                                                                  |
| ACGIH OEL TWA        | 0.1 ppm                                                                                   |
| Remark (ACGIH)       | TLV® Basis: URT, LRT, & eye dam; nasal cancer. Notations: A2 (Suspected Human Carcinogen) |
| Regulatory reference | ACGIH 2024                                                                                |

## 8.2. Appropriate engineering controls

Appropriate engineering controls : Keep in a cool place. 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:

Protective gloves made of PVC. Nitrile rubber gloves

#### Eye protection:

Wear closed safety glasses

#### Skin and body protection:

Use explosion-proof equipment. Chemical resistant safety shoes. Long sleeved protective clothing. Or chemical resistant apron

#### 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  | : Liquid         |
| Appearance      | :                |
| Colour          | :                |
| Odour           | : characteristic |
| Odour threshold | : Not available  |
| pH              | : Not available  |
| Melting point   | : Not available  |
| Freezing point  | : Not available  |

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|                                                 |                                |
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| Boiling point                                   | : Not available                |
| Flash point                                     | : 58 °C                        |
| Relative evaporation rate (butylacetate=1)      | : Not available                |
| Flammability                                    | : Not available                |
| Explosive limits                                | : Not available                |
| Vapour pressure                                 | : 7.6 mm Hg                    |
| Relative vapour density at 20°C                 | : 6.7                          |
| Relative density                                | : Not available                |
| Density                                         | : 1.04 (0.96 – 1.04) g/cm³     |
| Solubility                                      | : Material insoluble in water. |
| Partition coefficient n-octanol/water (Log Kow) | : Not available                |
| Auto-ignition temperature                       | : Not available                |
| Decomposition temperature                       | : 60 °C                        |
| Viscosity, kinematic                            | : Not available                |
| Particle size                                   | : Not applicable               |
| Particle size distribution                      | : Not applicable               |
| Particle shape                                  | : Not applicable               |
| Particle aspect ratio                           | : Not applicable               |
| Particle specific surface area                  | : Not applicable               |

### ISODODECANE13475-82-6

|                           |        |
|---------------------------|--------|
| Boiling point             | 180 °C |
| Flash point               | 43     |
| Auto-ignition temperature | 430    |
| Vapour pressure at 50°C   | 30 hPa |

### 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                 | : In use may form flammable/explosive vapour-air mixture. Heating may cause a fire.                                                                                                                                                                      |
| Conditions to avoid                | : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid contact with hot surfaces. High temperature. Avoid formation of vapours. Risk of explosion by shock, friction, fire or other sources of ignition. |
| Hazardous decomposition products   | : May liberate toxic gases. Inhalation or contact with substance or decomposition products could cause severe injury or death.                                                                                                                           |
| Incompatible materials             | : Combustible materials.                                                                                                                                                                                                                                 |
| Possibility of hazardous reactions | : Liquids/vapours may ignite or react with other materials. May mass explode in fire.                                                                                                                                                                    |
| 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) | : Inhalation:vapour: Fatal if inhaled. |

### TERT-BUTYL PERBENZOATE (614-45-9)

|                       |           |
|-----------------------|-----------|
| LC50 Inhalation - Rat | 1.01 g/m³ |
|-----------------------|-----------|

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|                                   |                                        |
|-----------------------------------|----------------------------------------|
| Skin corrosion/irritation         | : Causes skin irritation.              |
| Serious eye damage/irritation     | : Not available                        |
| Respiratory or skin sensitisation | : May cause an allergic skin reaction. |
| Germ cell mutagenicity            | : Not available                        |
| Carcinogenicity                   | : May cause cancer.                    |

### CUMENE (98-82-8)

|                       |                                      |
|-----------------------|--------------------------------------|
| IARC group            | 2B - Possibly carcinogenic to humans |
| Reproductive toxicity | : Not available                      |
| STOT-single exposure  | : Not available                      |

### CUMENE (98-82-8)

|                        |                                   |
|------------------------|-----------------------------------|
| STOT-single exposure   | May cause respiratory irritation. |
| STOT-repeated exposure | : Not available                   |
| Aspiration hazard      | : Not available                   |

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

|                                     |                                                                                                                                                                                                                                                         |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms/effects                    | : Fatal if inhaled. May cause severe burns. May cause an allergic skin reaction.                                                                                                                                                                        |
| Symptoms/effects after inhalation   | : May cause shortness of breath, tightness of the chest, a sore throat and cough. 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 | : Causes skin irritation. irritation (itching, redness, blistering). Cracking of the skin. Prolonged or repeated contact may cause skin to become dry.                                                                                                  |
| Symptoms/effects after eye contact  | : stinging. Redness. Risk of serious damage to eyes.                                                                                                                                                                                                    |
| Symptoms/effects after ingestion    | : Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.                                                                                                                                                                  |
| Chronic symptoms                    | : May cause cancer.                                                                                                                                                                                                                                     |

## SECTION 12: Ecological information

### 12.1. Toxicity

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

### TERT-BUTYL PERBENZOATE614-45-9

|                      |            |
|----------------------|------------|
| LC50 - Fish [1]      | 1.6 mg/l   |
| EC50 - Crustacea [1] | 11 mg/l    |
| ErC50 algae          | 0.8 mg/l   |
| NOEC chronic fish    | 0.101 mg/l |
| NOEC chronic algae   | 0.44 mg/l  |

### 12.2. Persistence and degradability

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

#### TERT-BUTYL CUMYL PEROXIDE3457-61-2

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

#### 1,1-DI(TERT-BUTYLPEROXY)-3,3,5-TRIMETHYLCYCLOHEXANE6731-36-8

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

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| ISODODECANE13475-82-6           |                        |
|---------------------------------|------------------------|
| Persistence and degradability   | Not rapidly degradable |
| CUMENE98-82-8                   |                        |
| Persistence and degradability   | Not rapidly degradable |
| TERT-BUTYL PERBENZOATE614-45-9  |                        |
| Persistence and degradability   | Not rapidly degradable |
| tert-butyl hydroperoxide75-91-2 |                        |
| 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

## 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 | : Disposal must be done according to official regulations.                           |
| Additional information                     | : Flammable vapours may accumulate in the container. 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                          |                                                                                          |                                                                         |
| 3103                               | 3103                                                                                     | 3103                                                                    |
| UN Proper Shipping Name            |                                                                                          |                                                                         |
| PERÓXIDO ORGÂNICO, TIPO C, LÍQUIDO | ORGANIC PEROXIDE TYPE C, LIQUID                                                          | Organic peroxide type C, liquid                                         |
| Transport document description     |                                                                                          |                                                                         |
| Not applicable                     | UN 3103 ORGANIC PEROXIDE TYPE C, LIQUID, 5.2, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS | UN 3103 Organic peroxide type C, liquid, 5.2, ENVIRONMENTALLY HAZARDOUS |
| Transport hazard class(es)         |                                                                                          |                                                                         |
| 5.2                                | 5.2                                                                                      | 5.2                                                                     |
| Danger labels                      |                                                                                          |                                                                         |
| 5.2                                | 5.2                                                                                      | 5.2                                                                     |

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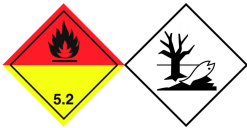
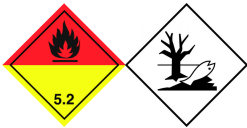
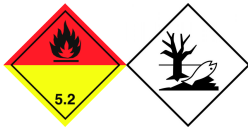
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|                                                                                   |                                                                                   |                                                                                     |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |
| <b>Subsidiary risk</b>                                                            |                                                                                   |                                                                                     |
| Not applicable                                                                    | Not applicable                                                                    | Not applicable                                                                      |
| <b>Risk Number</b>                                                                |                                                                                   |                                                                                     |
| 539                                                                               | Not applicable                                                                    | Not applicable                                                                      |
| <b>Packing group</b>                                                              |                                                                                   |                                                                                     |
| Not applicable                                                                    | Not applicable                                                                    | Not applicable                                                                      |
| <b>Special provisions</b>                                                         |                                                                                   |                                                                                     |
| 122,195,274                                                                       | 122,195,274                                                                       | A20,A150,A802                                                                       |
| <b>Dangerous for the environment</b>                                              |                                                                                   |                                                                                     |
| 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 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

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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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