

# LACKTHERM 0011 CATALYST

## Safety Data Sheet

According to ABNT NBR 14725: 2023

Issue date: 2/12/2024 Revision date: 1/15/2026 Version: 12.0



### SECTION 1: Identification

#### 1.1. GHS Product identifier

|                 |                           |
|-----------------|---------------------------|
| Product form    | : Substance               |
| Substance type  | : Mono-constituent        |
| Trade name      | : LACKTHERM 0011 CATALYST |
| Product code    | : 14814448                |
| 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                    |                         |

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|                |           |                  |                  |
|----------------|-----------|------------------|------------------|
| Germany        |           |                  | 0800-181-7059    |
| 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)

Flammable liquids, Category 3

Self-Reactive Substances and Mixtures, Type B

Organic Peroxides, Type E

Skin corrosion/irritation, Category 2

Carcinogenicity, Category 1B

Aspiration hazard, Category 1

Hazardous to the aquatic environment - Acute Hazard, Category 1

Hazardous to the aquatic environment - Chronic Hazard, Category 1

### 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  
H304 - May be fatal if swallowed and enters airways  
H315 - Causes skin irritation  
H350 - May cause cancer.  
H410 - Very 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.  
P264 - Wash hands, forearms and face thoroughly after handling.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves, protective clothing, eye protection, face protection and hearing protection.  
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or a doctor.  
P302+P352 - IF ON SKIN: Wash with plenty of water.

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P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water .  
P308+P313 - IF exposed or concerned: Get medical advice or attention.  
P321 - Specific treatment (see supplemental first aid instruction on this label).  
P331 - Do NOT induce vomiting.  
P332+P313 - If skin irritation 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

Substance type : Mono-constituent  
Name : CATALISADOR LACKTHERM 0011 COMP B

| Name                                                | GHS Product identifier | Conc. (% w/w) | Classification according to GHS BR (ABNT NBR 14725: 2023)                                                                                                     |
|-----------------------------------------------------|------------------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TERT-BUTYL CUMYL PEROXIDE                           | CAS-No.: 3457-61-2     | 40 – 50       | Flam. Liq. 4, H227<br>Org. Perox. E, H242<br>Skin Irrit. 2, H315<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410                                          |
| 1,1-DI(TERT-BUTYLPEROXY)-3,3,5-TRIMETHYLCYCLOHEXANE | CAS-No.: 6731-36-8     | 20 – 40       | Flam. Liq. 3, H226<br>Self-react. B, H241<br>Aquatic Chronic 4, H413                                                                                          |
| ISODODECANE                                         | CAS-No.: 13475-82-6    | 20 – 40       | Flam. Liq. 3, H226<br>Asp. Tox. 1, H304<br>Aquatic Chronic 4, H413                                                                                            |
| CUMENE                                              | CAS-No.: 98-82-8       | 1 – 5         | Flam. Liq. 3, H226<br>Acute Tox. 5 (Oral), H303<br>Carc. 1B, H350<br>STOT SE 3, H335<br>Asp. Tox. 1, H304<br>Aquatic Acute 2, H401<br>Aquatic Chronic 2, H411 |

### 3.2. Mixtures

Not applicable

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### 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   | : 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. Be careful, the product may remain trapped under clothing, footwear or a wrist-watch. |
| 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/risk of damage to lungs exceeds poisoning risk.                                                                                                                                    |

#### 4.2. Most important symptoms and effects, acute and delayed

|                                     |                                                                                                                                                                         |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms/effects                    | : May cause severe burns. May be fatal if swallowed and enters airways.                                                                                                 |
| 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 | : Causes skin irritation. irritation (itching, redness, blistering).                                                                                                    |
| 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. Risk of lung oedema.                                                             |
| 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. |
| 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.                                                                                                                                                                                                                                                                                                                       |

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### 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. 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. 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). Absorb spilled material with sand or earth. 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 : Flammable vapours may accumulate in the container.  
Precautions for safe handling : 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. 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. Remove contaminated clothes. 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.

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Storage conditions

Ground/bond container and receiving equipment. Store locked up. Store in tightly closed, leak-proof containers.

: 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.

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 - OSHA - Occupational Exposure Limits

|                                |                                 |
|--------------------------------|---------------------------------|
| Local name                     | Cumene                          |
| OSHA PEL TWA                   | 245 mg/m <sup>3</sup><br>50 ppm |
| Regulatory reference (US-OSHA) | OSHA Annotated Table Z-1        |

### 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

##### Eye protection:

Wear closed safety glasses

##### Skin and body protection:

Use explosion-proof equipment

##### Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

#### Personal protective equipment symbol(s):



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### SECTION 9: Physical and chemical properties

#### 9.1. Basic physical and chemical properties

|                                                 |                                |
|-------------------------------------------------|--------------------------------|
| Physical state                                  | : Liquid                       |
| Appearance                                      | : Liquid.                      |
| Colour                                          | : Colourless                   |
| Odour                                           | : characteristic               |
| Odour threshold                                 | : Not available                |
| pH                                              | : Not available                |
| Melting point                                   | : < -10 °C                     |
| Freezing point                                  | : Not available                |
| Boiling point                                   | : Not available                |
| Flash point                                     | : 58 °C                        |
| Relative evaporation rate (butylacetate=1)      | : Not available                |
| Flammability                                    | : Not available                |
| Explosive limits                                | : Not available                |
| Vapour pressure                                 | : Not available                |
| Relative vapour density at 20°C                 | : Not available                |
| Relative density                                | : Not available                |
| Density                                         | : 0.876 0.876 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                            | : 7.99 mm²/s                   |
| Viscosity, dynamic                              | : 7 mPa·s                      |
| Particle size                                   | : Not applicable               |
| Particle size distribution                      | : Not applicable               |
| Particle shape                                  | : Not applicable               |
| Particle aspect ratio                           | : Not applicable               |
| Particle specific surface area                  | : Not applicable               |

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

|                 |          |
|-----------------|----------|
| Flash point     | 80 °C    |
| Vapour pressure | 14 mm Hg |

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

|                           |                                                                |
|---------------------------|----------------------------------------------------------------|
| Boiling point             | 86 °C Source: National Institute of Technology and Evaluation  |
| Flash point               | 46 °C Source: National Institute of Technology and Evaluation  |
| Auto-ignition temperature | 410 °C Source: National Institute of Technology and Evaluation |

#### ISODODECANE13475-82-6

|                           |                                          |
|---------------------------|------------------------------------------|
| Boiling point             | 180 °C                                   |
| Flash point               | 45 °C Source: ECHA Registered substances |
| Auto-ignition temperature | 430                                      |
| Vapour pressure at 50°C   | 30 hPa                                   |

#### CUMENE98-82-8

|               |                     |
|---------------|---------------------|
| Boiling point | 152 °C Source: HSDB |
| Flash point   | 31 °C               |

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### CUMENE98-82-8

|                           |                                |
|---------------------------|--------------------------------|
| Auto-ignition temperature | 420 °C                         |
| Vapour pressure           | 4.5 mm Hg at 25°C Source: HSDB |

### 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                 | : 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.                                                                                                                                                                                                                              |
| Incompatible materials             | : Materiais plásticos solúveis em Xileno. Não armazenar com materiais explosivos, gases inflamáveis e/ou tóxicos, substâncias oxidantes, corrosivas e materiais que possam. 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) | : Not available |

### 1,1-DI(TERT-BUTYLPEROXY)-3,3,5-TRIMETHYLCYCLOHEXANE (6731-36-8)

|               |                                                                |
|---------------|----------------------------------------------------------------|
| LD50 oral rat | 12918 mg/kg Source: Corporate Solution From Thomson Micromedex |
|---------------|----------------------------------------------------------------|

### CUMENE (98-82-8)

|               |                         |
|---------------|-------------------------|
| LD50 oral rat | 2910 mg/kg Source: HSDB |
|---------------|-------------------------|

|                                   |                           |
|-----------------------------------|---------------------------|
| Skin corrosion/irritation         | : Causes skin irritation. |
| Serious eye damage/irritation     | : Not available           |
| Respiratory or skin sensitisation | : Not available           |
| 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      | : May be fatal if swallowed and enters airways. |

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|                      |            |
|----------------------|------------|
| Viscosity, kinematic | 7.99 mm²/s |
|----------------------|------------|

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

|                                     |                                                                                                                                                                         |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms/effects                    | : May cause severe burns. May be fatal if swallowed and enters airways.                                                                                                 |
| 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 | : Causes skin irritation. irritation (itching, redness, blistering).                                                                                                    |
| 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. Risk of lung oedema.                                                             |
| Chronic symptoms                    | : May cause cancer.                                                                                                                                                     |

## SECTION 12: Ecological information

### 12.1. Toxicity

|                                                           |                                                                                     |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------|
| Ecology - general                                         | : Very toxic to aquatic life with long lasting effects. Very toxic to aquatic life. |
| Hazardous to the aquatic environment, short-term (acute)  | : Very toxic to aquatic life.                                                       |
| Hazardous to the aquatic environment, long-term (chronic) | : Very toxic to aquatic life with long lasting effects.                             |

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

|                 |                                                                |
|-----------------|----------------------------------------------------------------|
| LC50 - Fish [1] | 0.708 mg/l Source: Ecological Structure Activity Relationships |
|-----------------|----------------------------------------------------------------|

#### CUMENE98-82-8

|                      |                        |
|----------------------|------------------------|
| LC50 - Fish [1]      | 4.7 mg/l Source: ECHA  |
| EC50 - Crustacea [1] | 2.14 mg/l Source: ECHA |
| ErC50 algae          | 2.01 mg/l Source: ECHA |

### 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 |
|-------------------------------|------------------------|

#### ISODODECANE13475-82-6

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

#### CUMENE98-82-8

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

### 12.3. Bioaccumulative potential

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

|                                                 |      |
|-------------------------------------------------|------|
| Partition coefficient n-octanol/water (Log Pow) | 5.45 |
|-------------------------------------------------|------|

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### CUMENE98-82-8

Partition coefficient n-octanol/water (Log Pow)

3.66 Source: HSDB

### 12.4. Mobility in soil

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

Mobility in soil

336600 Source: Quantitative Structure Activity Relation

### 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                                                                                  |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>UN number</b>                                                                    |                                                                                                                                                                            |                                                                                       |
| 3103                                                                                | 3103                                                                                                                                                                       | 3103                                                                                  |
| <b>UN Proper Shipping Name</b>                                                      |                                                                                                                                                                            |                                                                                       |
| PERÓXIDO ORGÂNICO, TIPO C, LÍQUIDO                                                  | ORGANIC PEROXIDE TYPE C, LIQUID                                                                                                                                            | Organic peroxide type C, liquid                                                       |
| <b>Transport document description</b>                                               |                                                                                                                                                                            |                                                                                       |
| Not applicable                                                                      | UN 3103 ORGANIC PEROXIDE TYPE C, LIQUID, 5.2, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS                                                                                   | UN 3103 Organic peroxide type C, liquid, 5.2                                          |
| <b>Transport hazard class(es)</b>                                                   |                                                                                                                                                                            |                                                                                       |
| 5.2                                                                                 | 5.2                                                                                                                                                                        | 5.2                                                                                   |
| <b>Danger labels</b>                                                                |                                                                                                                                                                            |                                                                                       |
| 5.2                                                                                 | 5.2                                                                                                                                                                        | 5.2                                                                                   |
|  | <br> |  |

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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 Abstracts 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

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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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