

# LACKTHERM 1313 H

## Safety Data Sheet

According to ABNT NBR 14725: 2023

Issue date: 9/2/2022 Revision date: 1/15/2026 Version: 10.0



### SECTION 1: Identification

#### 1.1. GHS Product identifier

Product form : Mixture  
Trade name : LACKTHERM 1313 H  
Product code : 10001638  
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 : Impregnation

#### 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           |
| India                                | Bangalore   | +91 8071 279 207                 |                         |

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

Acute toxicity (inhalation:vapour) Category 4

Skin corrosion/irritation, Category 3

Serious eye damage/eye irritation, Category 2

Skin sensitisation, Category 1

Germ cell mutagenicity, Category 1B

Carcinogenicity, Category 1B

Hazardous to the aquatic environment - Acute Hazard, Category 2

Hazardous to the aquatic environment - Chronic Hazard, Category 2

### 2.2. GHS Label elements, including precautionary statements

#### GHS BR labelling

Hazard pictograms (GHS BR)



Signal word (GHS BR)

: Danger

Hazard statements (GHS BR)

: H226 - Flammable liquid and vapour  
H316 - Causes mild skin irritation  
H317 - May cause an allergic skin reaction  
H319 - Causes serious eye irritation  
H332 - Harmful if inhaled  
H340 - May cause genetic defects.  
H350 - May cause cancer.  
H411 - Toxic to aquatic life with long lasting effects  
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.  
P233 - Keep container tightly closed.  
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.  
P261 - Avoid breathing dust, fume, gas, mist, vapours or spray.  
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

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hearing 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.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

P312 - Call a POISON CENTER or a doctor if you feel unwell.

P321 - Specific treatment (see supplemental first aid instruction on this label).

P333+P313 - If skin irritation or rash occurs: Get medical advice or attention.

P337+P313 - If eye irritation persists: 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.

P391 - Collect spillage.

P403+P235 - Store in a well-ventilated place. Keep cool.

P405 - Store locked up.

P501 - Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and international regulations.

### 2.3. Other hazards which do not result in classification

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name                                       | GHS Product identifier | Conc. (% w/w) | Classification according to GHS BR (ABNT NBR 14725: 2023)                                                                                                              |
|--------------------------------------------|------------------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Light aromatic naphtha (petroleum) solvent | CAS-No.: 64742-95-6    | 20 – 40       | Flam. Liq. 3, H226<br>Acute Tox. 5 (Dermal), H313<br>Muta. 1B, H340<br>Carc. 1B, H350<br>Asp. Tox. 1, H304<br>Aquatic Acute 2, H401<br>Aquatic Chronic 2, H411         |
| D-Limonene                                 | CAS-No.: 5989-27-5     | 1 – 5         | Flam. Liq. 3, H226<br>Acute Tox. 5 (Oral), H303<br>Skin Irrit. 2, H315<br>Skin Sens. 1B, H317<br>Asp. Tox. 1, H304<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |
| 2-methylpropan-1-ol; iso-butanol           | CAS-No.: 78-83-1       | 1 – 5         | Flam. Liq. 3, H226<br>Acute Tox. 5 (Oral), H303<br>Acute Tox. 5 (Dermal), H313<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>STOT SE 3, H336<br>STOT SE 3, H335        |
| MIXED XYLENES                              | CAS-No.: 1330-20-7     | 1 – 5         | Flam. Liq. 3, H226<br>Acute Tox. 5 (Oral), H303                                                                                                                        |

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| Name                | GHS Product identifier | Conc. (% w/w) | Classification according to GHS BR (ABNT NBR 14725: 2023)                                                                                                                                                                                      |
|---------------------|------------------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                     |                        |               | Acute Tox. 4 (Dermal), H312<br>Acute Tox. 4 (Inhalation), H332<br>Acute Tox. 4 (Inhalation:vapour), H332<br>Skin Irrit. 2, H315<br>STOT SE 3, H335<br>STOT RE 2, H373<br>Asp. Tox. 1, H304<br>Aquatic Acute 2, H401<br>Aquatic Chronic 3, H412 |
| TRIPHENYL PHOSPHITE | CAS-No.: 101-02-0      | 0.1 – 0.25    | Acute Tox. 4 (Oral), H302<br>Skin Corr. 1, H314<br>Eye Irrit. 2A, H319<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410                                                                                                                     |

## 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. 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  | : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.                                                                                                                                           |
| First-aid measures after ingestion    | : Do NOT induce vomiting. Rinse mouth out with water.                                                                                                                                                                                                                        |

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

|                                     |                                                                                                                           |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Symptoms/effects                    | : Harmful if inhaled. May cause an allergic skin reaction. Causes serious eye irritation.                                 |
| Symptoms/effects after inhalation   | : May cause headache, nausea and irritation of respiratory tract.                                                         |
| Symptoms/effects after skin contact | : Causes mild skin irritation. Itching. Cracking of the skin. Prolonged or repeated contact may cause skin to become dry. |
| Symptoms/effects after eye contact  | : stinging. Redness. Causes serious eye irritation. redness, itching, tears.                                              |
| Symptoms/effects after ingestion    | : May cause irritation to the digestive tract.                                                                            |
| Chronic symptoms                    | : May cause cancer. May cause heritable genetic damage.                                                                   |

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

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

## SECTION 5: Fire-fighting measures

### 5.1. Suitable extinguishing media

|                                |                                                      |
|--------------------------------|------------------------------------------------------|
| Suitable extinguishing media   | : Dry chemical, CO2, or water spray or regular foam. |
| 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. |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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Explosion hazard

- Vapours may cause fire/explosion if source of ignition is present. In case of fire and/or explosion do not breathe fumes.
- : Vapours may form explosive mixture with air. Prolonged exposure to fire may cause containers to rupture/explode.

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

Precautionary measures fire

- : Keep container closed when not in use. This product is not to be used under conditions of poor ventilation.

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. Do not enter fire area without proper protective equipment, including respiratory protection.

Protection during firefighting

- : Use self-contained breathing apparatus and chemically protective clothing.

Other information

- : On exposure to high temperature, may decompose, releasing toxic gases. In case of fire, corrosive and harmful gases come free.

## SECTION 6: Accidental release measures

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

General measures

- : 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. Total impervious protective suits, gloves, and boots must be worn to prevent any contact with the product. Corrosionproof suit. Equip cleanup crew with proper protection.

Emergency procedures

- : 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

- : Stop leak without risks if possible. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning up

- : Absorb remaining liquid with sand or inert absorbent and remove to safe place. 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.

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### 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. 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.
- : 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.

Hygiene measures

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

Storage conditions

Incompatible materials

Packaging materials

- : Keep cool. Store in a well-ventilated place. Keep container tightly closed. Keep cool. Protect from sunlight.
- : combustible materials.
- : Store always product in container of same material as original container.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 2-methylpropan-1-ol; iso-butanol 78-83-1

###### USA - ACGIH - Occupational Exposure Limits

|                      |                            |
|----------------------|----------------------------|
| Local name           | Isobutanol                 |
| ACGIH® TLV® TWA      | 50 ppm                     |
| Remark (ACGIH)       | TLV® Basis: Skin & eye irr |
| Regulatory reference | ACGIH 2024                 |

###### USA - OSHA - Occupational Exposure Limits

|                                |                          |
|--------------------------------|--------------------------|
| Local name                     | Isobutyl alcohol         |
| OSHA PEL TWA                   | 300 mg/m³<br>100 ppm     |
| Regulatory reference (US-OSHA) | OSHA Annotated Table Z-1 |

##### MIXED XYLENES 1330-20-7

###### USA - ACGIH - Occupational Exposure Limits

|                      |                                                                                                                                                                              |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Local name           | Xylene, mixed isomers (Dimethylbenzene)                                                                                                                                      |
| ACGIH® TLV® TWA      | 20 ppm                                                                                                                                                                       |
| Remark (ACGIH)       | TLV® Basis: Eye & URT irr; CNS impair; Hematologic eff; Ototoxicity (p-xylene).<br>Notations: OTO (Ototoxicant) (p isomer); A4 (Not classifiable as a Human Carcinogen); BEI |
| Regulatory reference | ACGIH 2025                                                                                                                                                                   |

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### MIXED XYLENES 1330-20-7

#### USA - ACGIH - Biological Exposure Indices

|                      |                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Local name           | Xylene, all isomers (Dimethylbenzene)                                                                                                                                                                                                                                                                                                                                                    |
| BEI                  | 0.3 g/g creatinine Parameter: Methylhippuric acids - Medium: urine - Sampling time: End of shift                                                                                                                                                                                                                                                                                         |
| Remark               | Commercial or technical grade xylenes consist of mixtures of isomers and significant amounts of ethyl benzene as indicated under "Properties." Because ethyl benzene is known to reduce the metabolism of xylenes to methylhippuric acids, the BEI applies to technical or commercial grades of xylenes only. The determinants refer to the total of all isomers of methylhippuric acids |
| Regulatory reference | ACGIH 2025                                                                                                                                                                                                                                                                                                                                                                               |

#### USA - OSHA - Occupational Exposure Limits

|                                |                                  |
|--------------------------------|----------------------------------|
| Local name                     | Xylenes (o-, m-, p-isomers)      |
| OSHA PEL TWA                   | 435 mg/m <sup>3</sup><br>100 ppm |
| Regulatory reference (US-OSHA) | OSHA Annotated Table Z-1         |

### 8.2. Appropriate engineering controls

Appropriate engineering controls

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

### 8.3. Individual protection measures

#### Personal protective equipment:

Wear recommended personal protective equipment.

#### Hand protection:

Nitrile rubber gloves

#### Eye protection:

Wear closed safety glasses

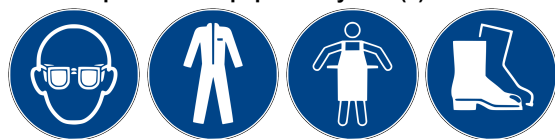
#### Skin and body protection:

Long sleeved protective clothing. Or chemical resistant apron. Safety shoes

#### Respiratory protection:

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

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



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### SECTION 9: Physical and chemical properties

#### 9.1. Basic physical and chemical properties

|                                                 |                                        |
|-------------------------------------------------|----------------------------------------|
| Physical state                                  | : Liquid                               |
| Appearance                                      | : Liquid.                              |
| Colour                                          | : amber                                |
| Odour                                           | : characteristic                       |
| Odour threshold                                 | : Not available                        |
| pH                                              | : Not available                        |
| Melting point                                   | : Not available                        |
| Freezing point                                  | : Not available                        |
| Boiling point                                   | : Not available                        |
| Flash point                                     | : 31 °C                                |
| Relative evaporation rate (butylacetate=1)      | : Not available                        |
| Flammability                                    | : Not available                        |
| Explosive limits                                | : 0.7 – 10.9 vol %                     |
| Vapour pressure                                 | : Not available                        |
| Relative vapour density at 20°C                 | : Not available                        |
| Relative density                                | : Not available                        |
| Density                                         | : 1.01 (0.99 – 1.01) g/cm <sup>3</sup> |
| Solubility                                      | : Material insoluble in water.         |
| Partition coefficient n-octanol/water (Log Kow) | : Not available                        |
| Auto-ignition temperature                       | : 400 °C                               |
| Decomposition temperature                       | : Not available                        |
| Viscosity, kinematic                            | : 40 – 60 CF4                          |
| Viscosity, dynamic                              | : 40 – 60 Seconds                      |
| Particle size                                   | : Not applicable                       |
| Particle size distribution                      | : Not applicable                       |
| Particle shape                                  | : Not applicable                       |
| Particle aspect ratio                           | : Not applicable                       |
| Particle specific surface area                  | : Not applicable                       |

#### TRIPHENYL PHOSPHITE101-02-0

|                 |                                                                                                     |
|-----------------|-----------------------------------------------------------------------------------------------------|
| Boiling point   | 360 °C Source: The Chemical Database, The Department of Chemistry at the University of Akron        |
| Flash point     | 218 °C Source: ICSC                                                                                 |
| Vapour pressure | 0.00004 mm Hg Source: The Chemical Database, The Department of Chemistry at the University of Akron |

#### 2-methylpropan-1-ol; iso-butanol78-83-1

|                           |                              |
|---------------------------|------------------------------|
| Boiling point             | 108 °C Atm. press.: 1013 hPa |
| Flash point               | 31 °C Atm. press.: 1013 hPa  |
| Auto-ignition temperature | 415 °C Source: ECHA          |
| Vapour pressure           | < 16 hPa Temp.: 20 °C        |

#### MIXED XYLENES1330-20-7

|                           |                                |
|---------------------------|--------------------------------|
| Boiling point             | 138 °C Source: ICSC            |
| Flash point               | 30 °C (ASTM D 93)              |
| Auto-ignition temperature | ≥ 528 °C Source: SRC           |
| Vapour pressure           | 8.84 mm Hg at 25°C Source: SRC |

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### Light aromatic naphtha (petroleum) solvent64742-95-6

|                 |                          |
|-----------------|--------------------------|
| Boiling point   | 135 – 210 °C Source: NLM |
| Flash point     | < 41 °C Source: IUCLID   |
| Vapour pressure | ≤ 240 kPa Temp.: 37,8 °C |

### D-Limonene5989-27-5

|                           |                                           |
|---------------------------|-------------------------------------------|
| Boiling point             | 175.5 – 176 °C at 763 mmHg Source: HSDB   |
| Flash point               | 48 °C                                     |
| Auto-ignition temperature | 245 °C Source: ECHA Registered substances |
| Vapour pressure           | 1.98 mm Hg                                |

## 9.2. Data relevant with regard to physical hazard classes

VOC Total (g/l) : 377.82 g/l  
VOC Total (lb/gal) : 3.15 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.                                                                                                                       |
| 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. |
| Hazardous decomposition products   | : May liberate toxic gases. On exposure to high temperature, may decompose, releasing corrosive gases.                                                                          |
| Incompatible materials             | : Combustible materials.                                                                                                                                                        |
| Possibility of hazardous reactions | : Liquids/vapours may ignite or react with other materials.                                                                                                                     |
| 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: Harmful if inhaled.

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|                  |                |
|------------------|----------------|
| ATE BR (vapours) | 14.791 mg/l/4h |
|------------------|----------------|

### TRIPHENYL PHOSPHITE (101-02-0)

|                       |                                                                          |
|-----------------------|--------------------------------------------------------------------------|
| LD50 oral rat         | 444 mg/kg Source: NLM                                                    |
| LC50 Inhalation - Rat | > 3.35 mg/kg Source: International Uniform Chemical Information Database |

### 2-methylpropan-1-ol; iso-butanol (78-83-1)

|                    |                         |
|--------------------|-------------------------|
| LD50 oral rat      | 2460 mg/kg Source: ECHA |
| LD50 dermal rabbit | 2460 mg/kg Source: ECHA |

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### 2-methylpropan-1-ol; iso-butanol (78-83-1)

|                                 |                        |
|---------------------------------|------------------------|
| LC50 Inhalation - Rat (Vapours) | 19.6 mg/l Source: ECHA |
|---------------------------------|------------------------|

### MIXED XYLENES (1330-20-7)

|                             |                                                         |
|-----------------------------|---------------------------------------------------------|
| LD50 oral rat               | 3523 mg/kg Source: ECHA                                 |
| LD50 dermal rabbit          | 12126 mg/kg bodyweight Animal: rabbit, Animal sex: male |
| LC50 Inhalation - Rat [ppm] | 5922 ppm                                                |

### Light aromatic naphtha (petroleum) solvent (64742-95-6)

|                                 |                                                                                          |
|---------------------------------|------------------------------------------------------------------------------------------|
| LD50 oral rat                   | > 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity) |
| LD50 dermal rat                 | > 2000 mg/kg Source: ECHA                                                                |
| LD50 dermal rabbit              | > 2000 mg/kg                                                                             |
| LC50 Inhalation - Rat (Vapours) | 5.16 mg/l Source: ECHA                                                                   |

### D-Limonene (5989-27-5)

|                    |                                                                                |
|--------------------|--------------------------------------------------------------------------------|
| LD50 oral rat      | 5000 mg/kg Source: National Library of Medicine/Hazardous Substances Data Bank |
| LD50 dermal rabbit | > 5000 mg/kg Source: National Library of Medicine                              |

Skin corrosion/irritation : Causes mild skin irritation.

### TRIPHENYL PHOSPHITE (101-02-0)

|    |   |
|----|---|
| pH | 1 |
|----|---|

### MIXED XYLENES (1330-20-7)

|    |   |
|----|---|
| pH | 7 |
|----|---|

Serious eye damage/irritation : Causes serious eye irritation.

### TRIPHENYL PHOSPHITE (101-02-0)

|    |   |
|----|---|
| pH | 1 |
|----|---|

### MIXED XYLENES (1330-20-7)

|    |   |
|----|---|
| pH | 7 |
|----|---|

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : May cause genetic defects.

Carcinogenicity : May cause cancer.

### MIXED XYLENES (1330-20-7)

|            |                      |
|------------|----------------------|
| IARC group | 3 - Not classifiable |
|------------|----------------------|

### D-Limonene (5989-27-5)

|            |                      |
|------------|----------------------|
| IARC group | 3 - Not classifiable |
|------------|----------------------|

Reproductive toxicity : Not available

STOT-single exposure : Not available

### 2-methylpropan-1-ol; iso-butanol (78-83-1)

|                      |                                                                      |
|----------------------|----------------------------------------------------------------------|
| STOT-single exposure | May cause drowsiness or dizziness. May cause respiratory irritation. |
|----------------------|----------------------------------------------------------------------|

### MIXED XYLENES (1330-20-7)

|                      |                                   |
|----------------------|-----------------------------------|
| STOT-single exposure | May cause respiratory irritation. |
|----------------------|-----------------------------------|

STOT-repeated exposure : Not available

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### 2-methylpropan-1-ol; iso-butanol (78-83-1)

|                            |                                                                                                                          |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------|
| NOAEL (oral, rat, 90 days) | > 1450 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------|

### MIXED XYLENES (1330-20-7)

|                            |                                                                                                                                                                                         |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LOAEL (oral, rat, 90 days) | 150 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EPA OPP 82-1 (90-Day Oral Toxicity) |
| STOT-repeated exposure     | May cause damage to organs through prolonged or repeated exposure.                                                                                                                      |

Aspiration hazard : Not classified.

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|                      |                              |
|----------------------|------------------------------|
| Viscosity, kinematic | 160 – 240 mm <sup>2</sup> /s |
|----------------------|------------------------------|

### 2-methylpropan-1-ol; iso-butanol (78-83-1)

|                      |                         |
|----------------------|-------------------------|
| Viscosity, kinematic | 3.87 mm <sup>2</sup> /s |
|----------------------|-------------------------|

### MIXED XYLENES (1330-20-7)

|                      |                                                                                                  |
|----------------------|--------------------------------------------------------------------------------------------------|
| Viscosity, kinematic | ≈ 0.76 mm <sup>2</sup> /s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm <sup>2</sup> /s)' |
|----------------------|--------------------------------------------------------------------------------------------------|

### Light aromatic naphtha (petroleum) solvent (64742-95-6)

|                      |                                                                                                 |
|----------------------|-------------------------------------------------------------------------------------------------|
| Viscosity, kinematic | < 1 mm <sup>2</sup> /s Temp.: 'other:' Parameter: 'kinematic viscosity (in mm <sup>2</sup> /s)' |
|----------------------|-------------------------------------------------------------------------------------------------|

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

|                                     |                                                                                                                           |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Symptoms/effects                    | : Harmful if inhaled. May cause an allergic skin reaction. Causes serious eye irritation.                                 |
| Symptoms/effects after inhalation   | : May cause headache, nausea and irritation of respiratory tract.                                                         |
| Symptoms/effects after skin contact | : Causes mild skin irritation. Itching. Cracking of the skin. Prolonged or repeated contact may cause skin to become dry. |
| Symptoms/effects after eye contact  | : stinging. Redness. Causes serious eye irritation. redness, itching, tears.                                              |
| Symptoms/effects after ingestion    | : May cause irritation to the digestive tract.                                                                            |
| Chronic symptoms                    | : May cause cancer. May cause heritable genetic damage.                                                                   |

## SECTION 12: Ecological information

### 12.1. Toxicity

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

### TRIPHENYL PHOSPHITE101-02-0

|                      |                                                                |
|----------------------|----------------------------------------------------------------|
| LC50 - Fish [1]      | 0.7 mg/l Source: ECOTOX                                        |
| EC50 96h - Algae [1] | 0.013 mg/l Source: Ecological Structure Activity Relationships |

### 2-methylpropan-1-ol; iso-butanol78-83-1

|                      |                                                                  |
|----------------------|------------------------------------------------------------------|
| LC50 - Fish [1]      | 1430 mg/l Test organisms (species): Pimephales promelas          |
| EC50 - Crustacea [1] | 1100 mg/l Test organisms (species): Daphnia pulex                |
| EC50 72h - Algae [1] | 593 mg/l Source: ECHA                                            |
| NOEC (chronic)       | 20 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |

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### MIXED XYLENES1330-20-7

|                      |                                                                                                            |
|----------------------|------------------------------------------------------------------------------------------------------------|
| LC50 - Fish [1]      | 2.6 mg/l Source: ECHA                                                                                      |
| EC50 - Crustacea [1] | 3.4 mg/l Test organisms (species): Ceriodaphnia dubia                                                      |
| ErC50 algae          | 2.2 mg/l                                                                                                   |
| LOEC (chronic)       | 3.16 mg/l Test organisms (species): Daphnia magna Duration: '21 d'                                         |
| NOEC chronic fish    | > 1.3 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '56 d' |

### Light aromatic naphtha (petroleum) solvent64742-95-6

|                      |                          |
|----------------------|--------------------------|
| LC50 - Fish [1]      | 9.22 mg/l Source: IUCLID |
| EC50 - Crustacea [1] | 6.14 mg/l Source: IUCLID |
| EC50 72h - Algae [1] | 19 mg/l Source: IUCLID   |

### D-Limonene5989-27-5

|                      |                                               |
|----------------------|-----------------------------------------------|
| LC50 - Fish [1]      | 0.7 mg/l Source: The ECOTOXicology database   |
| EC50 - Crustacea [1] | 0.307 mg/l Source: ECHA Registered substances |

## 12.2. Persistence and degradability

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

### TRIPHENYL PHOSPHITE101-02-0

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

### 2-methylpropan-1-ol; iso-butanol78-83-1

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

### MIXED XYLENES1330-20-7

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

### Light aromatic naphtha (petroleum) solvent64742-95-6

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

### D-Limonene5989-27-5

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

## 12.3. Bioaccumulative potential

### TRIPHENYL PHOSPHITE101-02-0

|                                                 |                                                                  |
|-------------------------------------------------|------------------------------------------------------------------|
| Partition coefficient n-octanol/water (Log Pow) | 4.98 Source: International Uniform Chemical Information Database |
|-------------------------------------------------|------------------------------------------------------------------|

### 2-methylpropan-1-ol; iso-butanol78-83-1

|                                                 |                        |
|-------------------------------------------------|------------------------|
| Partition coefficient n-octanol/water (Log Pow) | 0.8 Source: ChemIDPlus |
|-------------------------------------------------|------------------------|

### MIXED XYLENES1330-20-7

|                                                 |                   |
|-------------------------------------------------|-------------------|
| Partition coefficient n-octanol/water (Log Pow) | 3.15 Source: HSDB |
|-------------------------------------------------|-------------------|

### Light aromatic naphtha (petroleum) solvent64742-95-6

|                                                 |                        |
|-------------------------------------------------|------------------------|
| Partition coefficient n-octanol/water (Log Pow) | 2.1 – 6 Source: IUCLID |
|-------------------------------------------------|------------------------|

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| D-Limonene5989-27-5                             |      |
|-------------------------------------------------|------|
| Partition coefficient n-octanol/water (Log Pow) | 4.57 |

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Hazardous to the ozone layer : Not available

SECTION 13: Disposal considerations

|                                            |                                                                                      |
|--------------------------------------------|--------------------------------------------------------------------------------------|
| Waste treatment methods                    | : Must follow special treatment according to local regulation.                       |
| Sewage disposal recommendations            | : Disposal must be done according to official regulations.                           |
| Product/Packaging disposal recommendations | : 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                                                                           |                                                                                                                                                                            |                                                                                       |
| 1263                                                                                | 1263                                                                                                                                                                       | 1263                                                                                  |
| UN Proper Shipping Name                                                             |                                                                                                                                                                            |                                                                                       |
| TINTA                                                                               | PAINT                                                                                                                                                                      | Paint                                                                                 |
| Transport document description                                                      |                                                                                                                                                                            |                                                                                       |
| Not applicable                                                                      | UN 1263 PAINT, 3, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS (31°C c.c.)                                                                                              | UN 1263 Paint, 3, III                                                                 |
| Transport hazard class(es)                                                          |                                                                                                                                                                            |                                                                                       |
| 3                                                                                   | 3                                                                                                                                                                          | 3                                                                                     |
| Danger labels                                                                       |                                                                                                                                                                            |                                                                                       |
| 3                                                                                   | 3                                                                                                                                                                          | 3                                                                                     |
|  | <br> |  |
| Subsidiary risk                                                                     |                                                                                                                                                                            |                                                                                       |
| Not applicable                                                                      | Not applicable                                                                                                                                                             | Not applicable                                                                        |
| Risk Number                                                                         |                                                                                                                                                                            |                                                                                       |
| 30                                                                                  | Not applicable                                                                                                                                                             | Not applicable                                                                        |

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| Packing group                 |                 |             |
|-------------------------------|-----------------|-------------|
| III                           | III             | III         |
| Special provisions            |                 |             |
| 163,223,367                   | 163,223,367,955 | A3,A72,A192 |
| Dangerous for the environment |                 |             |
| Yes                           | Yes             | Yes         |

### 14.2 Other informations

No additional information available

## SECTION 15: Regulatory information

### 15.1. National regulations

Brazil Local Regulations

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

## SECTION 16: Other information

Abbreviations and acronyms

: CAS-No. - Chemical Abstract Service number  
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road  
BCF - Bioconcentration factor  
EC50 - Median effective concentration  
LC50 - Median lethal concentration  
VOC - Volatile Organic Compounds  
LD50 - Median lethal dose  
DMEL - Derived Minimal Effect level  
DNEL - Derived-No Effect Level  
COD - Chemical oxygen demand (COD)  
ATE - Acute Toxicity Estimate  
IMDG - International Maritime Dangerous Goods  
IATA - International Air Transport Association  
EC-No. - European Community number  
vPvB - Very Persistent and Very Bioaccumulative  
WGK - Water Hazard Class  
IOELV - Indicative Occupational Exposure Limit Value  
BLV - Biological limit value  
TRGS - Technical Rules for Hazardous Substances  
TLM - Median Tolerance Limit  
IARC - International Agency for Research on Cancer

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Important information, but not specifically described in the previous sections: This MSDS was prepared based on current knowledge about the handling of the product under normal conditions of use, according to the application specified on the packaging and recommended usage in Section 1 of this MSDS. Any other use of the product involving its combination with other materials, as well as forms of use different from those indicated, are the user's responsibility. The company advises that the handling of any chemical substance requires prior knowledge of its hazards by the user. In the workplace it is responsibility of the company user of the product to provide training of its employees and contractors about the possible risks arising from exposure to the chemical. We reserve the right to change the information contained in this document without prior notice, due to the improvement and continuous evolution of the product and technical knowledge.

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