

## TIRESHINE

MSDS nº A014I

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### 1. IDENTIFICATION

#### Product identification

**TIRESHINE**

#### Other ways of identification

Not available

#### Recommended uses and usage restrictions

Product that revitalizes and superficially hydrates plastics.

#### Supplier details

INTERBRILHO HIGIENE E LIMPEZA LTDA.

Via dos Ipês, 376 Chácaras do Pinhal – Cabreúva – São Paulo CEP: 13318-000

Telephone: (11) 4529-8100

#### Emergency phone number

(11) 4529-8100

### 2. HAZARDS IDENTIFICATION

Skin corrosion/irritation - Category 2

Acute toxicity - Dermal - Category 5

Acute toxicity - Inhalation - Category 5



ATTENTION!

H315: Causes skin irritation

H313: May be harmful in contact with skin

H333: May be harmful if inhaled

#### General

P103 Read the label before using the product.

#### Prevention

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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### Answer

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P332 + P313 If skin irritation occurs: Get medical advice/attention.

P362 + P364 Take off all contaminated clothing and wash it before reuse.

P312 Call a POISON CENTER/doctor if you feel unwell.

P304 + P312 IF INHALED: Call a POISON CENTER/doctor if you feel unwell.

### Storage

P403 Store in a well-ventilated place.

### Elimination

P501 Dispose of contents/container in accordance with local regulations (see item 13).

### Other hazards that do not result in a classification

Does not have.

## 3. COMPOSITION AND INFORMATION ABOUT INGREDIENTS

This product is a mixture:

| Chemical identity           | CAS number           | Concentration (%) | GHS risk   |
|-----------------------------|----------------------|-------------------|--|
| Alcohol                     | 64-17-5              | 1 – 5%            | H225, H319   |
| Mixture of Isothiazolinones | 55965-84-9 / 52-51-7 | 0,2 – 2,0%        | H301, H310, H330, H314,<br>H317, H318, H400, H410 /<br>H302, H312, H315, H318,<br>H335, H400, H410 |

\*The other components are trade secrets.

## 4. FIRST AID ACTIONS

### Description of necessary first-aid measures:

**Inhalation:** Does not cause damage to health if inhaled.

**Eyes:** Wash affected area with running water for at least 15 minutes. If irritation persists, seek medical attention immediately.

**Skin:** Wash hands with soap and water after use.

**Ingestion:** Do not induce vomiting. Drink plenty of water and seek medical advice.

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### Most important symptoms, acute or delayed

Inhalation: May be harmful if inhaled. Skin: Causes skin irritation.

### Indication of immediate medical attention and special treatments if necessary.

Symptomatic treatment.

## 5. FIRE FIGHTING MEASURES

### Extinguishing media

Suitable: Use chemical powder and CO<sub>2</sub> extinguishing agents. Do not apply a jet of water directly onto the burning product, as it may spread and increase the intensity of the fire.

### Specific hazards arising from the substance or mixture

Fire can produce toxic and irritating gases in addition to Carbon Monoxide and Carbon Dioxide.

### Special protective measures for firefighting personnel

Firefighters: Wear self-contained breathing apparatus and appropriate fire-fighting clothing. Do not enter confined areas without adequate protective equipment (PPE); this should include self-contained masks to protect against the hazardous effects of combustion products or lack of oxygen.

Isolate the hazardous area and prohibit people from entering. In case of fire, use water spray to cool containers exposed to fire. Keep a safe distance from flames to avoid radiation burns. Use extinguishing processes that preserve the environment.

## 6. CONTROL MEASURES FOR SPILLS OR LEAKS

### Personal precautions, protective equipment and emergency procedures

#### For non-emergency service personnel

Isolate the area within a radius of at least 50 meters in all directions and ward off onlookers. In case of large leaks, consider the initial evacuation in the direction of the wind within a radius of 300 meters. Do not touch, stand or walk on spilled product. Stay away from low areas and in a position that keeps the wind behind your back.

#### For emergency service personnel

Use PPE. Provide grounding for all equipment that will be used in handling the spilled product. Eliminate all possible sources of ignition, such as open flames, hot elements without insulation, electrical or mechanical sparks, cigarettes, electrical circuits, etc. Prevent the use of any action or procedure that causes the generation of sparks or flames, avoiding



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contamination of rivers and springs. Stop the leak, if possible, by avoiding contact with skin and clothing. Never dispose of spilled material into sewers. Leaks must be reported to the manufacturer and/or environmental agencies.

### Environmental precautions

Isolate the accident area. Prevent the spread of the spilled product, avoiding contamination of rivers and springs. Stop the leak, if possible, by avoiding contact with skin and clothing. Never dispose of spilled material into sewers. Leaks must be reported to the manufacturer and/or environmental agencies.

### Methods and materials for containment and cleaning

Use dikes or natural barriers to contain product leakage. Absorb with inert absorbent material (sand, diatomite, vermiculite). If possible, stop the leak using bungs, sealing tape or by reversing the hole/tear/dent upwards. Collect all material in suitable and properly labeled containers for further treatment and disposal. Waste must be disposed of in accordance with local, state or federal environmental legislation. For transshipment, check an appropriate location and carry out the safety procedures described above.

## 7. HANDLING AND STORAGE

### Personal protections for safe handling

No smoking in the workplace. Use Personal Protective Equipment, see section 8. Ensure adequate ventilation in the workplace.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Storage and utilization facilities must be equipped with eyewash facilities and a safety shower. Clothing and PPE's should always be cleaned and checked before use. Always use water, soap and cleaning creams for personal hygiene. Good industrial hygiene and operational procedures help to reduce the risk of handling chemicals. Do not eat, drink or smoke while using this product.

### Conditions for safe storage, including any incompatibilities

Store in a covered, dry and ventilated area. Protect packaging from physical damage. Use and store with adequate ventilation.

Incompatible materials: Oxidizing agents.

Keep packaging tightly closed when not in use. These containers must not be reused for other purposes and must be disposed of in suitable places.

## 8. EXPOSURE CONTROL AND PERSONAL PROTECTION



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### Control parameters

Not available

### Engineering control measures

Ensure adequate ventilation, especially in confined areas.

### Personal protection measures



**Eye/Face Protection:** Chemical Safety Goggles.

**Skin protection:** Not necessary. Only if handling the paste for a long time, use PVC gloves.

**Respiratory protection:** Not necessary.

**Thermal hazards:** No thermal hazards.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical state

Liquid

### Color

Blue

### Odor

Characteristic

### Melting point/freezing point

Not available

### Boiling point or initial boiling point and boiling range

Not available

### Flammability

Not available

### Lower and upper explosive/flammability limits

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Not available

### Flash point

Not available

### Auto-ignition temperature

Not available

### Decomposition temperature

Not available

### pH

5,5 – 7,5

### Kinematic viscosity

Not available

### Solubility

Miscible in water

### Partition coefficient – n-octanol/water (log value)

Not available

### Steam pressure

Not available

### Density and/or relative density

1,110 – 1,115 g/cm<sup>3</sup>

### Relative steam density

Not available

### Particle characteristics

Not applicable

## 10. STABILITY AND REACTIVITY

### Reactivity

Stable product under normal conditions of temperature and pressure.

### Chemical stability

Stable under normal conditions of use.

### Possibility of dangerous reactions

Not available.

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### Conditions to avoid

Ignition sources, flames, heat.

### Incompatible materials

Strong oxidizers.

### Hazardous Decomposition Products

Fire can produce toxic and irritating gases in addition to Carbon Monoxide and Carbon Dioxide.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

#### Mixture of Isothiazolinones

##### ATEm oral:

LD50: 5000 mg/kg body weight

##### ATEm dermal:

LD50: 2500 mg/kg body weight

##### ATEm inhaler:

LC50: 25 mg/L

### Skin corrosion/irritation

Causes skin irritation

### Serious eye damage/eye irritation

Based on available data, the classification criteria are not met.

### Respiratory or skin sensitization

Based on available data, the classification criteria are not met.

### Germ cell mutagenicity

Based on available data, the classification criteria are not met.

### Carcinogenicity

Based on available data, the classification criteria are not met.

### Reproduction toxicity

Based on available data, the classification criteria are not met.

### Specific target organ toxicity – single exposure

Based on available data, the classification criteria are not met.

### Specific target organ toxicity – repeated exposure

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Based on available data, the classification criteria are not met.

### Aspiration hazard

Based on available data, the classification criteria are not met.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Not available

### Persistence and degradability

Data not evaluated.

### Bioaccumulative potential

Data not evaluated.

### Mobility on the ground

Data not evaluated.

### Other adverse effects

No information available.

## 13. CONSIDERATIONS ON FINAL DESTINATION

### Recommended methods for final disposal

**Product residues:** Never dispose of in sewers or the environment. They must be disposed of in accordance with applicable and current federal, state and municipal health and environmental regulations: ABNT-NBR 10.004/2004 and ABNT-NBR 16725.

**Used packaging:** Its disposal must comply with all applicable environmental and health regulations, complying with the same criteria applicable to products.

**Special precautions:** The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with environmental protection requirements as well as waste disposal legislation as required by the local regional authorities. Dispose of excess and non-recyclable products through an authorized waste disposal company. Waste should not be disposed of untreated into the sewer unless it is fully compliant with local authority requirements.

The generation of waste should be avoided or minimized wherever possible. Waste packaging must be recycled. Incineration or landfill should only be considered if recycling is not feasible.

Do not dispose of this product and its container without taking appropriate safety precautions. Empty containers or liners may retain some product residue. Avoid dispersion of spilled product and runoff in contact with soil, water courses, ditches and sewers.





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## 14. TRANSPORT INFORMATION

### National and international regulations

Res 5947/21 ANTT | IMDG / DPC / ANTAQ | ICAO-TI / IATA-DGFT / ANAC

**Product not classified as dangerous for transport, according to regulations above.**

**Other transport information:** Avoid transport in vehicles where the cargo space is not separated from the driver's cab. Ensure that the vehicle driver is aware of the potential risks of the load as well as the measures to be taken in the event of an accident or emergency. Before transporting the containers, check that they are securely fastened. In fractional transport, each container must be duly identified, bearing the labeling provided for in the standard.

## 15. REGULATORY INFORMATION

Ordinance No. 229 of 2011/MTE (which amends the Regulatory Standard "NR 26", which deals with Safety Signaling).

Ordinance 704/15 of the Ministry of Labor and Employment (DOU of 05/28/2015) amending Regulatory Standard No. 26 (NR 26) - Safety Signs. This Ordinance included item 26.2.2.5 in Regulatory Standard No. 26, approved by Ordinance 3214/1978, with wording given by Ordinance 229/2011, with the following wording: "Products notified or registered as Sanitizing Products at ANVISA are exempt from compliance with the preventive labeling obligations established by items 26.2.2, 26.2.2.1, 26.2.2.2 and 26.2.2.3 of NR 26."

Decree 2,657 of 07/03/1998 - promulgates ILO Convention No. 170, on safety in the use of chemical products at work, signed in Geneva on July 25, 1990.

Decree No. 2657 of 1998 (ratified ILO Convention No. 170 in Brazil).

ABNT STANDARD NBR 14725 - Safety Data Sheet (SDS).

Decree No. 7,404, of December 23, 2010. National Solid Waste Policy.

Law 9.605/1998 Environmental Crimes.

NR-26 (MTE) - Safety Signaling.

Law 8078/1990 Consumer Defense Code.

Regulatory requirements are subject to change and may differ from region to region; It is the user's responsibility to ensure that their activities comply with local, federal, state and local laws.

## 16. OTHER INFORMATION

**Preparada por: Via Brasil Cafasso Consultoria em Transporte de Produtos Perigosos**





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“This Safety Data Sheet for Chemical Products was prepared in accordance with the manufacturer's MSDS/FDS and with the guidelines of NBR 14725 issued by ABNT – Brazilian Association of Technical Standards. The information contained in the SDS represents current data and accurately reflects our best knowledge of the proper handling of this product under normal conditions and in accordance with the recommendations given on the packaging and in the technical literature. Any other use of the product, whether or not it involves use in combination with another product, or that uses a process other than that indicated, is the sole responsibility of the user”

## REFERENCES:

[**ABNT NBR 14725**] – Safety Data Sheet (SDS)

[**RESOLUÇÃO Nº 5947/21 ANTT**] National Agency for Land Transport - Approves the Supplementary Instructions to the Regulation of Land Transport of Dangerous Goods.

[**NR-26 (MTE)**] - Safety Signage.

[**HSNO NOVA ZELÂNDIA**]. HSNO Chemical Classification and Information Database (CCID)

[**ECHA**] **União Europeia**. ECHA European Chemical Agency

[**TERRESTRE, FERROVIAS, RODOVIAS**]: National Land Transport Agency (ANTT);

**HIDROVIÁRIO (MARÍTIMO, FLUVIAL, LACUSTRE)**: International Maritime Dangerous Goods - Code (IMDG code); Norm-5 of the Directorate of Ports and Coasts of the Ministry of the Navy (DPC); National Waterway Transport Agency (ANTAQ);

**AÉREO**: International Civil Aviation Organization - Technical Instructions (ICAO-TI). International Air Transport Association - Dangerous Goods Regulations (IATA-DGFT); Agência Nacional de Aviação Civil (ANAC).

## \* Abbreviations:

**NA**: Not applicable

**ND**: Not available

**OSHA**: Occupational Safety and Health Administration

**LD50**: lethal dose for 50% of the infected population

**LC50**: lethal concentration for 50% of the infected population

**CAS**: chemical abstracts service

**TLV-TWA**: is the weighted average concentration allowed for an 8-hour working day

**TLV-STEL**: is the short-term exposure limit-maximum concentration allowed for a continuous exposure of 15 minutes

**ACGIH**: is an organization of personnel of government agencies or educational institutions engaged in occupational health and safety programs.

**ACGIH**: develops and publishes exposure limits for hundreds of chemical substances and physical agents.





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**PEL:** maximum allowable concentration of airborne contaminants to which most workers can be repeatedly exposed 8 hours a day, 40 hours a week, during their work period (30 years), without adverse health effects.

**OSHA:** US federal agency with authority to regulate and enforce health and safety provisions for industries and businesses in the US.

**IMDG:** Internacional Maritime Code for Dangerous Goods – international code for the transport of hazardous materials by sea.

**DMEL:** Minimum Effect Derived Level

**DNEL:** No Effect Derived Level

**PNEC:** Predictably no-effects concentration.

**OIT** - International Labor Organization

**MTE** - Ministry of Labor and Employment

