

	<b>MATERIAL SAFETY DATA SHEET – MSDS</b>	<b>SDS 006</b>		
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## BREUTEX

### 1. IDENTIFICATION OF PRODUCT AND COMPANY

<b>Trade name:</b>	BREUTEX
<b>Internal number – SDS</b>	006
<b>Company:</b>	Socer RB Industria e Comercio LTDA. – Filial Manduri
<b>Address:</b>	Estrada Municipal Manduri-São Berto, km 10 CEP: 18780-000 – Mailbox: 40.
<b>Phone</b>	(+55) (14) 3356 - 1511
<b>Fax:</b>	-----
<b>Emergency phone:</b>	0800-3700222
<b>E-mail and site:</b>	<a href="mailto:fispq@resinasbrasil.com.br">fispq@resinasbrasil.com.br</a> <a href="http://www.gruporesinasbrasil.com.br/">http://www.gruporesinasbrasil.com.br/</a>
<b>Main recommended uses:</b>	Manufacture; Industrial manufacture of rosin resin; Industrial formulation
<b>Restriction Uses:</b>	No use restrictions are known.

### 2. HAZARDS IDENTIFICATION

**Classified in accordance with REACH/ECHA - Based on the Global Harmonized System (GHS) -**  
in accordance with REGULATION (CE) N° 1272/2008 THE EUROPEAN PARLIAMENT

Dermal sensitization Category 1.

**Other hazards which do not result in a classification** The product does not present other hazards

#### Labelling elements

#### Pictograms



**Signal word** Warning

**Hazard statements** H317 May cause allergic skin reaction.

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**Precautionary statements**

P261 – Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P262 – Do not get in eyes, on skin, or on clothing.  
 P280 – Wear protective gloves / protective clothing / eye protection / face protection.  
 P321 – Specific treatment: see on section 4.  
 P302 + P352 – IN CASE OF SKIN CONTACT: Wash with soap and water in abundance.  
 P333 + P313 – If skin irritation or rash occurs: Get medical attention.  
 P362 + P364 – Remove any contaminated clothing and wash clothing before reuse.  
 P501 – Dispose of contents / container to licensed landfill according to local regulations: municipal, state and federal.

**3. COMPOSITION AND INFORMATION ON INGREDIENTS**

**THIS PRODUCT IS A SUBSTANCE.**

**Ingredients or impurities that contribute to the danger:**

Chemical name	CAS	EINECS	Weight %
ROSIN	8050-09-7	232-475-7	100
REACH Number	<a href="#">01-2119480418-32-0025</a>		

**4. FIRST-AID MEASURES**

**Inhalation**

Remove the victim for ventilated location and to keep in a position that does not impede breathing. If necessary, make use of artificial respiration. If you feel unwell seek a VERY INFORMATION CENTER or a doctor. Take this MSDS.

**Skin contact**

Remove contaminated clothes. Rinse and then wash skin with water and SOAP. If irritation persists seek medical attention. Take this MSDS.

**Eyes contact**

Rinse thoroughly with plenty of water for several minutes (remove contact lenses if possible). If the irritation persists seek medical attention. Take this MSDS.

**Ingestion**

Do not induce vomiting. Ingest one or two glasses of water. Immediately seek medical attention. Take this MSDS. Do not induce vomiting. Ingest one or two

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glasses of water. Immediately seek medical attention. Take this MSDS.

**Most important symptoms and effects, both acute and delayed** Does not have specific symptoms.

**Notes to physician** Shows no specific treatment. Treat symptomatically. Consult a poison center if they are ingested or inhaled large amounts.

## 5. FIRE FIGHTING MEASURES

**Extinguishing media** Recommended: foam, dry chemical powder, carbon dioxide.  
Not recommended: water jet.

**Specific hazards of the substance mixture** During combustion releases toxic gases, including carbon monoxide. Irritant gases are also issued.

**Protection measures team of fire-fighting** Fire-fighters should wear appropriate protective equipment and Do not induce vomiting. Ingest one or two glasses of water. Immediately seek medical attention. Take this MSDS. self-contained respiratory (SCBA) with a full-face mask operand in positive pressure mode.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

**To people who are not part of the Emergency Service** Unprotected people away from the scene. Provide adequate ventilation if possible. Isolate access to the site. Contact the emergency sector and use IPE ´ s described in section 8 if possible.

**To Emergency Service personnel** Use appropriate IPE for the treatment, such as gloves, dust masks and wear eye protection.

**Environmental precautions** Prevent product from reaching water courses and drainage networks. Prevent product penetration into the soil so they don't contaminate groundwater and wells. Inform the competent authorities about the penetration of larger quantities.

**Methods and materials for containment and cleaning** Remove the packaging from the spill area. Do not use air hose for cleaning. Sweep with care to avoid generation of dust. Pull vacuum all the dust accumulated on the surfaces and remove to a chemical

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waste disposal area. Dispose of through a waste disposal company. If hot and melted, let cool to solidify. Then, scrape it off the floor and sweep up the place.

**Differences in the action of large and small leaks**

The methods are the same for both cases, and in accordance with the previously explained.

**7. HANDLING AND STORAGE**

**Measures appropriate techniques for handling**

**Appropriate Technical measures for handling**

Use protective gloves, mask of gases and vapours, rubber boots and other IPE discriminated in section 8 of this MSDS. Handling the product must be carried in well-ventilated area or with ventilation/exhaust system. The site must have a washing system, for use if necessary. The site must have emergency shower and eye wash, well-signposted. These locations should be marked clearly. Everything must be clearly labeled, as well as equipment and pipelines. Use only the amount needed, avoiding excess in the workplace. Keep the packaging closed properly.

**Hygiene measures**

Do not consume food and drinks in the workplace, having the appropriate places for these purposes. Avoid contact with the skin. Avoid contact with eyes. If there is contact rinse the affected spot with plenty of water. Avoid inhalation of dust or when heated to avoid inhaling the fumes. Avoid contact with clothing. Contaminated clothes must be exchanged and carefully cleaned. Provide bathrooms with showers and, if possible, locations with separate storage cabinets for street clothes and working clothes. The skin should be washed with SOAP and water before breaks and at the end of the work. Apply skin care products after washing. Take care of personal hygiene.

**Conditions for safe storage, including any incompatibilities**

**Fire and explosion prevention**

The product should be kept away from heat, spark, open flame or hot surfaces. No smoking on the premises.

**Appropriate conditions**

Keep container closed and stored in a dry, cool and well-ventilated place. Open packs must be carefully sealed and kept upright to prevent leakage. Stable product under appropriate storage conditions. The storage is not allowed in hallways, walkways, stairs, corridors and public corridors, on rooftops, in attics, and workrooms.

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<b>Suitable materials for packing</b>	Paper bags or raffia, cardboard box and zinc barrels.
<b>Unsuitable materials for packing</b>	Does not have any restrictions on the packaging, as long as it is clean and dry. However, it is recommended to use original-like packaging.
<b>Additional Considerations</b>	Due to the thermoplastic behavior, pastillated and flaked resins may fuse, block or lump. This can be accelerated under any of the following conditions: 1) above 25°C temperature 2) prolonged storage 3) pressure, e.g., stacking pallets, or a combination of these conditions. In order to maintain the flake or pastille shape, we therefore recommend storing the material in a temperature-controlled area; be careful with stacking material or applying pressure and preventing prolonged storage. It should be noted that lumping does not have a negative impact on the product specifications. Resins are prone to gradual oxidation, some more so than others. This could result in darkening and/or it could have an adverse effect on the solubility of the resin in organic solvents or on its compatibility with polymers. Accordingly, it is recommended that strict control of inventory be observed at all times, taking care that the oldest material is used first.

## 8. EXPOSURE CONTROL AND PERSONAL PROTECTION

<b>Occupational exposure limits</b>	TLV-TWA: no presents parameters (ACGIH, 2014). PEL-TWA: no presents parameters (OSHA, 2014). REL-TWA: no presents parameters (NIOSH, 2010).
<b>Biological indicators</b>	BEI: does not display parameters (NIOSH/OSHA, 2012).
<b>Other limits and values</b>	Not established.
<b>Engineering control measures</b>	The workplaces must be separated from the product storage, if possible. Washing installation at the workplace and storage if necessary. Mechanical ventilation or exhaustion must be installed to reduce the exposure to the product. If necessary, also the presence of emergency showers and eye washes in the places where the exposure occurs.
<b>Personal protective measures</b>	
<b>Eye/face protection</b>	Use safety glasses with side protection.

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<b>Skin protection</b>	If necessary, use suitable protective clothing. Use protective gloves nitrile Rubber/nitrile type-LaTeX-NBR (0.35 mm), Fluor rubber-carbon FKM (0.4 mm).
<b>Breath protection</b>	If the product is heated it is recommended the use of masks with gas filter.
<b>Thermal hazards</b>	When heated gases irritants and releases the use of masks for steam, eye protection, protective gloves and clothing resistant to solvent.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance (physical state, shape, color, etc.)</b>	Yellowish to Amber scales at 25° C
<b>Odor and odor threshold</b>	Characteristic of colophony.
<b>pH</b>	Not applicable.
<b>Melting/freezing point</b>	76 – 90 °C.
<b>Initial boiling point and boiling range</b>	Not applicable.
<b>Flash point</b>	187
<b>Evaporation rate</b>	Not applicable.
<b>Flammability (solid, gas)</b>	Non-flammable.
<b>Lower/upper limit flammability or explosion</b>	Not applicable.
<b>Steam pressure</b>	Not applicable.
<b>Vapor density</b>	Not applicable.
<b>Relative density</b>	1.07 g/cm <sup>3</sup> at 20° C.
<b>Solubility(s)</b>	0.9 mg/L at 20°C (water)
<b>Partition coefficient – n-octanol/water</b>	Log Kow (Pow): 3.0 to 6.2 at 20 °C and Ph 6-7
<b>Auto-ignition temperature</b>	Not determined.
<b>Decomposition temperature</b>	Not applicable.

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**Viscosity** Not applicable.

## 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	Product not self-reactive at normal temperatures and pressures.
<b>Chemical stability</b>	Stable product under normal conditions of temperature and pressure.
<b>Possibility of hazardous reactions</b>	Avoid contact with strong oxidizing agents.
<b>Conditions to avoid</b>	High temperatures and exposure to air can cause decomposition or oxidation of the product.
<b>Incompatible materials</b>	Avoid contact with strong oxidizing agents.
<b>Hazardous decomposition products</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11. TOXICOLOGICAL INFORMATION

<b>Acute toxicity</b>	
<b>Oral, rats</b>	LD50: >2000 mg/kg.
<b>Dermal, rabbits</b>	LD50: >2000 mg/kg.
<b>Inhalation, rats</b>	Not applicable.
<b>Skin irritation/corrosion</b>	Product does not cause irritation to the skin.
<b>Serious eye damage / Eye irritant</b>	Product does not cause irritation in the eyes.
<b>Sensitization respiratory/skin</b>	May cause allergic skin reaction.
<b>Germ cell mutagenicity</b>	No data available to indicate that the product or any of the components above 0.1% is mutagenic or genotoxic.
<b>Carcinogenicity</b>	(ACGIH) A4-not classifiable as a human carcinogen.
<b>Reproductive toxicity</b>	Workers exposure over time to the present day, has not in any harm to the reproductive system.
<b>Toxicity for target specific organ – single exposure</b>	Workers exposure over time to the present day, has not in any harm to specific organs.
<b>Toxicity for specific target organ – prolonged exposure</b>	Workers exposure over time to the present day, has not in any chronic damage to anybody.

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**Aspiration hazard**

Does not present an aspiration hazard.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Does not present risks to the environment. Does not present risks to the environment.

**Persistence and degradability**

Inherent biodegradable product.

**Bioaccumulative potential**

BCF (fish): < 25 to 130 L/Kg  
BCF (mollusk): <110 to 330 L/Kg  
Shows no significant bioaccumulation.

**Mobility in soil**

Log KOC 0.8759 TO 5.37

**Other adverse effects**

Other environmental effects are not known for this product.

**13. DISPOSAL CONSIDERATION**

Recommended methods for final disposal (s)

**Product**

The product can be incinerated in special chemical waste according to local regulations regarding the disposal of special waste. The disposal must be done in accordance with local and national standards.

**Products remains**

The waste can be incinerated in special chemical waste according to local regulations regarding the disposal of special waste. The disposal must be done in accordance with local and national standards.

**Used packaging**

Do not reuse empty containers. These packages may contain remains of the product and must be kept closed and forwarded to appropriate disposal according to local laws.

**IPE required for the handling of discards**

Use protective gloves powder-free nitrile rubber or fluorocarbon. Use safety glasses with side protection and suitable clothing as set forth in section 8-protection for the body.

**14. TRANSPORT INFORMATION**

**National and International regulations**

Terrestrial      Product is not classified as hazardous for transport.



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Waterways      Product is not classified as hazardous for transport.

Aerial      Product is not classified as hazarBEIs for transport.

## 15. REGULATORY INFORMATION

Specific regulations safety, health and the environment for chemical

### REGULATION (EC) No 1272/2008

EUROPEAN PARLIAMENT AND OF THE COUNCIL of  
16 December 2008.

### THE PURPLE BOOK - GLOBALLY HARMONIZED OF CLASSIFICATION AND LABELLING OF CHEMICALS

Fifth revised edition

### THE ORANGE BOOK – RECOMMENDATION ON THE TRANSPORT OF DANGEROUS GOODS

Model Regulations – Volume I e II – Nineteenth revised  
edition

### TOXIC SUBSTANCES CONTROL ACT (TSCA)

This substance is on the TSCA 8(b) inventory and is  
designated “active”.

## 16. OTHER INFORMATION

The Grupo RB believes that the information contained herein corresponds to the current state of their knowledge about the handling of this product, at the date of issue of the safety data sheet.

The Grupo RB warns that the handling of any chemical requires prior knowledge of its dangers for users.

Any other use of this product, which is not mentioned in this MSDS, refers to the user all responsibility.

The Grupo RB recommends that the user company of the product promotes the proper training of its employees about possible risks from the chemical.

### Subtitles and Abbreviations

A4 - short for acronym for the category of ACGIH Rating (beginning in A1 to A5).

ABNT - Brazilian Association of Technical Standards

ACGIH - American Conference of Governmental Industrial Hygienists

BCF - bioconcentration factor (Bioconcentration Factor)

BEI - Biological Exposure Index (Biological Exposure Index)

GLP - Good Laboratory Practices

CAS - Chemical Abstract Service

EL50 - Effective Loading (Effective Concentration)

IBMP - maximum allowable biological indicator

Koc - adsorption coefficient to soil organic carbon

Kow - the octanol-water partition

LC50 - Lethal concentration 50% (Lethal Concentration)

LD50 - Lethal Dose 50% (Lethal Dose)

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LL50 - Lethal Loading 50% (Lethal Concentration)  
 LT - Threshold Limit  
 NIOSH - National Institute for Occupational Safety and Health  
 NR - Normal Regulatory  
 ILO - International Labour Organization  
 OSHA - Occupational Safety and Health Administration  
 PEL - Permissible exposure limit  
 REL - Recommended Exposure Limit  
 TWA - Time Weighted Average

### Bibliographic references

OFFICIAL JOURNAL OF THE EUROPEAN UNION. Regulation (EC) No 1272/2008. Europe. Dec. 2008.  
 MTE. MINISTRY OF LABOR AND EMPLOYMENT. Regulatory Standard (NR No. 15): Activities and unhealthy operations. Brasília, DF. Jun. 1978.  
 MTE. MINISTRY OF LABOR AND EMPLOYMENT. Regulatory Standard (NR No. 7): medical and occupational control programs (PCMSO). Brasília, DF. Jun. 1978.  
 ECHA - EUROPEAN CHEMICAL AGENCY. Available at:  
 <<http://www.echa.europa.eu/en/web/guest/information-on-chemicals>>. Access in Nov 2020.  
 NIOSH - National Institute for Occupational Safety and Health. Available in:  
 <<http://www.cdc.gov/niosh/>>. Access in Nov 2020.  
 Swell / IPCS - INTERNATIONAL PROGRAMME ON CHEMICAL SAFETY - Available in:  
 <[Www.inchem.org](http://www.inchem.org)>. Access in Nov 2020.  
 TOXNET - TOXICOLOGY DATA NETWORK. Available at: <<http://toxnet.nlm.nih.gov/>>. Accessed on: Nov 2020.

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