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## RESIDHERE FD 80

### 1. IDENTIFICATION OF PRODUCT AND COMPANY

<b>Trade name:</b>	RESIDHERE FD 80
<b>Internal number – SDS</b>	101
<b>Company:</b>	Socer RB Industria e Comercio LTDA - Matriz
<b>Address:</b>	Estrada do Guarujá, 3150 – Bloco I – Jd. Marília. CEP 13323-005 - Salto – SP.
<b>Phone</b>	(+55) (11) 4028-9900
<b>Fax:</b>	(+55) (11) 4028-9907
<b>Emergency phone:</b>	(+55) (11) 4028-9900
<b>E-mail and site:</b>	<a href="mailto:msds@socer.com.br">msds@socer.com.br</a> - <a href="http://www.gruporesinasbrasil.com.br">http://www.gruporesinasbrasil.com.br</a>
<b>Main recommended uses:</b>	Synthetic resins and adhesives for paper, special glues and adhesives.
<b>Restriction Uses:</b>	No use restrictions are known.

### 2. HAZARDS IDENTIFICATION

**Not Classified in accordance with REACH/ECHA - Based on the Global Harmonized System (GHS) - in accordance with REGULATION (CE) N.o 1272/2008 THE EUROPEAN PARLIAMENT**

#### Labelling element

**This product does not received classification according to the GHS (Globally Harmonized System)**

#### Precautionary statements

Do not handle the product before you have read and understood all safety precautions.  
Wear protective gloves / protective clothing / eye protection / face protection.  
Store in a well-ventilated place.  
Use preferably in well-ventilated areas.  
Do not eat, drink or smoke while using this product.  
Dispose of waste and empty bags according to local regulations.

### 3. COMPOSITION AND INFORMATION ON INGREDIENTS

**THIS PRODUCT IS A SUBSTANCE.**

#### Non-hazardous ingredients or impurities:

FSGI – 023 REV 04



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Chemical name	CAS	EINECS	Weight %
Rosin, reaction products with formaldehyde	91081-53-7	293-659-0	100
REACH number	<b>01-2119486886-15-0008</b>		

#### 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 TOXICOLOGY 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.

##### 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

Molten solids can cause burns. During combustion releases toxic gases, including carbon monoxide. Irritant gases are also issued. Thin clouds of dust may form explosive mixtures with air.

##### Protection measures team of fire-fighting

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full-face mask operant in positive pressure mode.



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### 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 PPE described in section 8 if possible.

#### To Emergency Service personnel

Use appropriate PPE 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 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 vapors, rubber boots and other PPE 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



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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. Keep stored at room temperature not exceeding 35°C. 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.

#### Suitable materials for packing

Paper bags or raffia and big-bags.

#### Unsuitable materials for packing

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.

#### Additional Considerations

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



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observed at all times, taking care that the oldest material is used first.

### 8. EXPOSURE CONTROL AND PERSONAL PROTECTION

#### Occupational exposure limits

TLV-TWA: Does not show parameters (ACGIH, 2014).

PEL-TWA: Does not show parameters (OSHA, 2014).

REL-TWA: Does not show parameters (NIOSH, 2010).

#### Biological indicators

BEI: Does not show parameters (NIOSH/OSHA, 2012).

#### Other limits and values

Not established.

#### Engineering control measures

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.

#### Personal protective measures:

##### Eye/face protection

Use safety glasses with side protection.

##### Skin protection

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).

##### Breath protection

If the product is heated it is recommended the use of masks with gas filter.

##### Thermal hazards

When heated gases irritants and releases the use of masks for steam, eye protection, protective gloves and clothing resistant to solvent. Solid cast product causes serious burns.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Appearance (physical state, shape, color, etc.)

Yellowish to amber scales to 25°C

#### Odor and odor threshold

Characteristic of colophony.

#### pH

Not applicable.

#### Melting/freezing point

Min 75.



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<b>Initial boiling point and boiling range</b>	> 275°C.
<b>Flash point</b>	187°C.
<b>Evaporation rate</b>	Not applicable.
<b>Flammability (solid, gas)</b>	Non-flammable.
<b>Lower/upper limit flammability or explosion</b>	10 mJ.
<b>Steam pressure</b>	20 Pa at 20°C.
<b>Vapor density</b>	Not applicable.
<b>Relative density</b>	1.008 g/cm <sup>3</sup> at 20 °C.
<b>Solubility(s)</b>	Slightly soluble (8.1 mg/l) at pH 6.03.
<b>Partition coefficient – n-octanol/water</b>	Log Kow (Pow): 5.36 at 25 °C and pH 6.03.
<b>Auto-ignition temperature</b>	Not determined.
<b>Decomposition temperature</b>	200°C.
<b>Viscosity</b>	Not applicable.

### 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	Product is 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



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### Acute toxicity:

**Oral, rats** DL<sub>50</sub>: >2000 mg/kg.  
**Dermal, rabbits** DL<sub>50</sub>: >2000 mg/kg.  
**Inhalation, rats** Not applicable.

**Skin irritation/corrosion** Product does not cause irritation to the skin.

**Serious eye damage / Eye irritant** Product does not cause irritation to the eyes.

**Sensitization respiratory/skin** Product does not cause skin reaction.

**Germ cell mutagenicity** No data available to indicate that the product or any of the components above 0.1% is mutagenic or genotoxic.

**Carcinogenicity** (ACGIH) A4 – is not classifiable as a human carcinogen.

**Reproductive toxicity** Workers exposure over time to the present day has not been harmful to the reproductive system.

**Toxicity for target specific organ – single exposure** Workers exposure over time to the present day has not been harmful to specific organs.

**Toxicity for specific target organ – prolonged exposure** Workers exposure over time to the present day has not caused any chronic damage to target organ to a prolonged exposure.

**Aspiration hazard** Does not present aspiration hazard.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** Acute toxicity to fish: LL50 (96h) – 1.7 mg/l. (category 2).  
Acute toxicity for Daphnia sp.: EL50 (48h) – 1.6 mg/l.  
Acute toxicity to Algae.: EC50 (72h) – 39.6 mg/l.

**Persistence and degradability** Product is considered to be readily biodegradable.

**Bioaccumulative potential** BCF: <25 to 130 for fish.  
110 to 330 L/kg for mussels.

**Mobility in soil** KOC: 0.8759 to 5.37.  
The product has low mobility in soil.

**Other adverse effects** Other environmental effects are not known for this product.

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### 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.

**PPE 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.
Waterways	Product is not classified as hazardous for transport.
Aerial	Product is not classified as hazardous for transport.

### 15. REGULATORY INFORMATION

Specific regulations safety, health and the environment for chemical:

**REGULATION (STANDARDS - 29 CFR) – TABLE OF CONTENTS - STANDARDS (1910.1200 App D)**

ELECTRONIC CODE OF FEDERAL REGULATIONS - OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION, DEPARTMENT OF LABOR.

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

Fifth revised edition.





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**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)

LL50 - Lethal Loading 50% (Lethal Concentration)

LT - Threshold Limit

NIOSH - National Institute for Occupational Safety and Health

NR - Normal Regulatory

ILO - International Labor 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. Brasilia, DF. Jun. 1978.

MTE. MINISTRY OF LABOR AND EMPLOYMENT. Regulatory Standard (NR No. 7): medical and occupational control programs (PCMSO). Brasilia, DF. Jun. 1978.

ECHA - EUROPEAN CHEMICAL AGENCY. Available at:  
<<http://www.echa.europa.eu/en/web/guest/information-on-chemicals>>. Access in Dec. 2020.

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NIOSH - National Institute for Occupational Safety and Health. Available at: <<http://www.cdc.gov/niosh/>>. Access in Dec. 2020.

Swell / IPCS - INTERNATIONAL PROGRAMME ON CHEMICAL SAFETY - Available at: <[www.inchem.org](http://www.inchem.org)>. Access in Dec. 2020.

TOXNET - TOXICOLOGY DATA NETWORK. Available at: <<http://toxnet.nlm.nih.gov/>>. Accessed on: Dec. 2020.

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