

**Safety Data Sheet**  
according to 1907/2006/EC, Article 31

Printing date 24.04.2009

Revision: 14.02.2008

### 1 Identification of the substance/preparation and of the company/undertaking

- **Product details**
- **Trade name:** RESIPUR 9158
- **Article number:** 17354
- **Application of the substance / the preparation** Binder for Composite Materials.
- **Manufacturer/Supplier:**  
Resiquímica - Resinas Químicas, S.A.  
Estrada Nacional nº 249, Km 15  
2725-397 MEM MARTINS  
PORTUGAL  
Telephone Number: +351 219 269 700 Fax Number: +351 219 269 780  
Responsible for the MSDS: hcorreia@resiquimica.pt
- **Further information obtainable from:** Product Safety Department
- **Information in case of emergency:**  
Resiquímica Emergency telephone number: +351 939 261 212  
Portuguese Antipoison Information Center: + 351 808 250 143 Fax: +351 213 303 275

### 2 Hazards identification

- **Hazard description:**



Xn Harmful

- **Information concerning particular hazards for human and environment:**  
Contact with skin and inhalation of aerosols/ vapours of the preparation should be avoided.  
R 10 Flammable.  
R 20 Harmful by inhalation.  
R 36/38 Irritating to eyes and skin.
- **Classification system:**  
The classification is according to the latest editions of the EU legislation, and extended by company and literature data.

### 3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Unsaturated Polyester Resin

- **Dangerous components:**

CAS: 100-42-5	styrene	Xn,  Xi; R 10-20-36/38	44%
EINECS: 202-851-5			

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

### 4 First-aid measures

- **General information:** Take affected persons out of danger area and lay down.
- **After inhalation:**  
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

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· **After swallowing:** Do not induce vomiting; call for medical help immediately.

### 5 Fire-fighting measures

- **Suitable extinguishing agents:** Foam, powder, CO<sub>2</sub>, water spray
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards caused by the substance, its products of combustion or resulting gases:**  
Formation of toxic gases is possible during heating or in case of fire.
- **Protective equipment:**  
Mouth respiratory protective device.  
Wear fully protective suit.

### 6 Accidental release measures

- **Person-related safety precautions:**  
Wear protective equipment. Keep unprotected persons away.  
Avoid contact with skin and eyes. Do not breathe vapours. Take precautionary measures against static discharges. Wear suitable protective clothing.
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.  
Do not flush with water or aqueous cleansing agents  
Dispose of the material collected according to regulations.  
In case of large spilling: pump the product to containers properly labelled (EX pump).

### 7 Handling and storage

- **Handling:**
- **Information for safe handling:**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Store only in the original receptacle.  
Keep containers tightly closed.  
Storage in a cool and well ventilated place.  
Avoid heat and direct sunshine.
- **Information about storage in one common storage facility:**  
In case of storage and handling according with the general dispositions to flammable liquids, it is not necessary special measures.
- **Further information about storage conditions:**  
Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

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**8 Exposure controls/personal protection****· Ingredients with limit values that require monitoring at the workplace:****100-42-5 styrene (43%)**MEL Short-term value: 1080 mg/m<sup>3</sup>, 250 ppm  
Long-term value: 430 mg/m<sup>3</sup>, 100 ppm**67-56-1 methanol (0.4%)**OES Short-term value: 333 mg/m<sup>3</sup>, 250 ppm  
Long-term value: 266 mg/m<sup>3</sup>, 200 ppm  
Sk, ILV**· Personal protective equipment:****· General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.

**· Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

**· Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**· Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**· Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**· Eye protection:**

Tightly sealed goggles

**· Body protection:**

Use protective suit.  
Solvent resistant protective clothing

**9 Physical and chemical properties****· General Information**

**Form:** Liquid.  
**Colour:** Yellow

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<b>Odour:</b>	Solvent-like
<b>· Change in condition</b>	
<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point (solvent):</b>	145°C
<b>· Flash point:</b>	32°C (ISO 3679)
<b>· Ignition temperature (solvent):</b>	480°C
<b>· Self-igniting:</b>	Product is not self igniting.
<b>· Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
<b>· Explosion limits (solvent):</b>	
<b>Lower:</b>	1.2 Vol %
<b>Upper:</b>	8.9 Vol %
<b>· Vapour pressure at 20°C:</b>	6 hPa
<b>· Density at 20°C:</b>	1.11 g/cm <sup>3</sup> (DIN 53217)
<b>· Solubility in / Miscibility with water:</b>	Not miscible or difficult to mix.
<b>· Viscosity:</b>	
<b>Value at 23°C:</b>	475 mPas (DIN 53177)
<b>Organic solvents:</b>	43.0 %

### 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Materials to be avoided:** Avoid contact with strong oxidizer agents.
- **Dangerous decomposition products:** Carbon monoxide

### 11 Toxicological information

- **Acute toxicity:**

- **LD/LC50 values relevant for classification:**

#### 100-42-5 styrene

Oral	LD50	5000 mg/kg (rato)
Inhalative	LC50/4 h	24 mg/l (rato)

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.

- **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful  
Irritant

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**12 Ecological information**

- **Ecotoxicological effects:**
- **Remark:** It's not recommendable to send this product to a WWTP.
- **General notes:** Do not allow product to reach ground water, water course or sewage system.

**13 Disposal considerations**

- **Recommendation** Reuse if possible. In other case incinerate according local legislation.
- **Uncleaned packaging:**
- **Recommendation:**  
Dirty packaging should be properly drained and can be reused after properly cleaned.  
Send to an authorized cleaning company.

**14 Transport information**· **Land transport ADR/RID (cross-border)**

- **ADR/RID class:** 3 Flammable liquids.
- **Danger code (Kemler):** 30
- **UN-Number:** 1866
- **Packaging group:** III
- **Hazard label** 3
- **Description of goods:** 1866 RESIN SOLUTION, special provision 640E
- **Remarks:** Containers < 450 l: not dangerous

· **Maritime transport IMDG:**

- **IMDG Class:** 3
- **UN Number:** 1866
- **Label** 3
- **Packaging group:** III
- **EMS Number:** F-E,S-E
- **Marine pollutant:** No
- **Proper shipping name:** RESIN SOLUTION

· **Air transport ICAO-TI and IATA-DGR:**

- **ICAO/IATA Class:** 3
- **UN/ID Number:** 1866
- **Label** 3
- **Packaging group:** III

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**· Proper shipping name: RESIN SOLUTION****15 Regulatory information**

- **Labelling according to EU guidelines:**  
*The product has been classified and marked in accordance with EU Directives.*
- **Code letter and hazard designation of product:**  
*Xn Harmful*
- **Hazard-determining components of labelling:**  
*styrene*
- **Risk phrases:**  
10 *Flammable.*  
20 *Harmful by inhalation.*  
36/38 *Irritating to eyes and skin.*
- **Safety phrases:**  
9 *Keep container in a well-ventilated place.*  
23 *Do not breathe vapour*  
26 *In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.*  
36/37 *Wear suitable protective clothing and gloves.*  
43 *In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water.*  
60 *This material and its container must be disposed of as hazardous waste.*

**16 Other information**

*This information is based on our present knowledge based on the technical and national and EC legislation. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. The product should only be applied for the applications referred in Technical Data Sheet.*

*The user is responsible to comply with the applied legislation.*

*The information on this Safety Data Sheet intend to inform the safety product requirements and it is not a total guarantee of the properties of the product.*

- **Relevant R-phrases**  
10 *Flammable.*  
20 *Harmful by inhalation.*  
36/38 *Irritating to eyes and skin.*
- **Department issuing MSDS:** *Product Safety Department*
- **Contact:** *Hortense Correia*
- **\* Data compared to the previous version altered.**  
*Cap 1 - Trade name*  
*Chapter 3 - Composition /Information on Ingredients*  
*Chap 8 - Explosion controls/ personal protection.*  
*MSDS according with Directive REACH (chapter 1- e-mail of the responsible for the MSDS, chapter 2 e 3 with reverse order, chapter 15- regulamentation).*

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