



Distributed by:  
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**SAFETY DATA SHEET**  
 according to 1907/2006/EC, Article 31

**Rigidizer**

Revision 0

Revision date 2015-03-12

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**

Product name	Rigidizer
Product code	RF-458

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Product Use	[SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites;
Description	Foundry material.

**1.3. Details of the supplier of the safety data sheet**

Company	Laguna Clay Company
Address	14400 Lomitas Ave City of Industry, CA 91746
Web	www.lagunaclay.com
Telephone	800-452-4862
Fax	(626) 333-7694
Email	info@lagunaclay.com
Email address of the competent person	rose@lagunaclay.com

**1.4. Emergency telephone number**

Emergency telephone number	USA +1 (626) 330-0631
Company	Laguna Clay Company, 14400 Lomitas Ave, City of Industry, CA 91746
	8 am to 5:00 pm Pacific time zone

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

Main hazards	No Significant Hazard
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**2.2. Label elements**

Risk phrases	No Significant Hazard.
Safety phrases	S24/25 - Avoid contact with skin and eyes.
Precautionary Phrases	P262 - Do not get in eyes, on skin, or on clothing.

**2.3. Other hazards**

Other hazards	Portions of the amorphous silica may be converted to crystalline silica (cristobalite) when subjected to higher temperatures (1700° F / 927° C), such as when used in a mold for ferrous and other high temperature alloy castings. The exposure to crystalline silica is highest at the mold knockout stage of the casting process.  Avoid breathing dust/fume/gas/mist/vapours/spray.  Exposure to respirable crystalline silica may cause lung disease and cancer.
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**Further information**

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## Further information

Based on available data, the classification criteria are not met. PBT and vPvB assessment.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
silica (amorphous)		7631-86-9	231-545-4		20 - 40%	

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air.
Eye contact	Rinse immediately with plenty of water for 15 minutes holding the eyelids open.
Skin contact	Wash with soap and water.
Ingestion	Drink 1 to 2 glasses of water. DO NOT INDUCE VOMITING.

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

Inhalation	May cause irritation to respiratory system.
Eye contact	May cause irritation to eyes.
Skin contact	May cause irritation to skin.
Ingestion	May cause irritation to mucous membranes.

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

Inhalation	Seek medical attention if irritation or symptoms persist.
Eye contact	Seek medical attention if irritation or symptoms persist.
Skin contact	Seek medical attention if irritation or symptoms persist.
Ingestion	Seek medical attention if irritation or symptoms persist.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Use extinguishing media appropriate to the surrounding fire conditions.

### 5.2. Special hazards arising from the substance or mixture

Burning produces irritating, toxic and obnoxious fumes.

### 5.3. Advice for firefighters

Self-contained breathing apparatus. Wear suitable protective clothing.

## SECTION 6: Accidental release measures

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

Wear suitable protective equipment.

### 6.2. Environmental precautions

Do not allow product to enter drains.

### 6.3. Methods and material for containment and cleaning up

Absorb with inert, absorbent material. Transfer to suitable, labelled container.

### 6.4. Reference to other sections

See section [2, 8 & 13] for further information.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Wash hands

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## 7.1. Precautions for safe handling

after handling the product.

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

Do NOT allow to freeze. Keep in a cool, dry, well ventilated area. Keep containers tightly closed.

## 7.3. Specific end use(s)

Foundry material.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

exposure limits - Silica, vitreous (fused, amorphous) 80 mg/m<sup>3</sup> / (% Silica), TWA PEL (respirable fraction).

#### 8.1.1. Exposure Limit Values

**BINDZIL (TM) 803 and 1430 [NA] (Matrixsol(TM) 30 colloidal silica)**

WEL 8-hr limit ppm:

WEL 8-hr limit mg/m<sup>3</sup>: 2.1

WEL 15 min limit ppm:

WEL 15 min limit mg/m<sup>3</sup>:

### 8.2. Exposure controls



**8.2.1. Appropriate engineering controls**

Ensure adequate ventilation of the working area.

**8.2.2. Individual protection measures**

Apron (Plastic or rubber).

**Eye / face protection**

In case of splashing, wear:.. Approved safety goggles.

**Skin protection - Handprotection**

Wear suitable gloves.

**Respiratory protection**

In case of insufficient ventilation, wear suitable respiratory equipment.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

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## 9.1. Information on basic physical and chemical properties

<b>State</b>	Liquid
<b>Colour</b>	Clear
<b>Odour</b>	Slight
<b>pH</b>	10.2
<b>Melting point</b>	Not applicable.
<b>Freezing Point</b>	≈ 0 °C
<b>Boiling point</b>	≈ 100 °C
<b>Flash point</b>	Not applicable.
<b>Evaporation rate</b>	No data available
<b>Flammability limits</b>	Not applicable.
<b>Vapour Flammability</b>	Not applicable.
<b>Vapour pressure</b>	No data available
<b>Vapour density</b>	No data available
<b>Relative density</b>	1.2 (Water = 1 @ 20 °C)
<b>Fat Solubility</b>	Not applicable.
<b>Partition coefficient</b>	No data available
<b>Autoignition temperature</b>	Not applicable.
<b>Viscosity</b>	No data available
<b>Explosive</b>	Not applicable.
<b>Oxidising</b>	Not applicable.
<b>Solubility</b>	Miscible in water

## 9.2. Other information

<b>Conductivity</b>	No data available
<b>Surface tension</b>	No data available
<b>Gas group</b>	Not applicable.
<b>Benzene Content</b>	Not applicable.
<b>Lead content</b>	Not applicable.
<b>VOC (Volatile organic compounds)</b>	Not applicable.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

	Not applicable.
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### 10.2. Chemical stability

	Stable under normal conditions.
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### 10.3. Possibility of hazardous reactions

	No Significant Hazard.
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### 10.4. Conditions to avoid

	Direct sunlight. Do NOT allow to freeze.
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### 10.5. Incompatible materials

	Avoid contact with: Sodium chloride.
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### 10.6. Hazardous decomposition products

	None.
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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

<b>Acute toxicity</b>	Based on available data, the classification criteria are not met.
<b>Skin corrosion/irritation</b>	May cause irritation to skin.
<b>Serious eye damage/irritation</b>	May cause irritation to eyes.

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## 11.1. Information on toxicological effects

Respiratory or skin sensitisation	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.
Reproductive toxicity	Based on available data, the classification criteria are not met.
STOT-single exposure	Based on available data, the classification criteria are not met.
STOT-repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.
Repeated or prolonged exposure	May cause irritation to skin.

### 11.1.4. Toxicological Information

BINDZIL (TM) 803 and 1430 [NA]	Oral Rat LD50: >15 g/kg
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## SECTION 12: Ecological information

### 12.1. Toxicity

BINDZIL (TM) 803 and 1430 [NA]	Daphnia EC50/48h: 7600.000 mg/l	Green Algae EC50/48h: 440
	Brachydanio Rerio LC50/96h: >5000	

### 12.2. Persistence and degradability

	No data is available on this product.
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### 12.3. Bioaccumulative potential

	Does not bioaccumulate.
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### 12.4. Mobility in soil

	Not determined.
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### 12.5. Results of PBT and vPvB assessment

	Not applicable.
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### 12.6. Other adverse effects

	Not applicable.
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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

	Dispose of in compliance with all. local and national regulations.
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#### Disposal methods

	Contact a licensed waste disposal company.
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#### Disposal of packaging

	Do NOT reuse empty containers. Empty containers can be sent for disposal or recycling.
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## SECTION 14: Transport information

### ADR/RID

	The product is not classified as dangerous for carriage.
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### IMDG

	The product is not classified as dangerous for carriage.
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### IATA

	The product is not classified as dangerous for carriage.
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### Further information

	The product is not classified as dangerous for carriage.
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## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulations	<p>U.S. FEDERAL REGULATIONS:</p> <p>CERCLA 103 Reportable Quantity: Bindzil 830 &amp; 1430 is not subject to CERCLA reporting requirements. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.</p> <p>SARA TITLE III:</p> <p>Hazard Category For Section 311/312: None</p> <p>Section 313 Toxic Chemicals: This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372): None</p> <p>Section 302 Extremely Hazardous Substances (TPQ): None</p> <p>EPA Toxic Substances Control Act (TSCA) Status: All of the components of this product are listed on the TSCA inventory.</p> <p>INTERNATIONAL REGULATIONS:</p> <p>Canadian WHMIS Classification: Not a controlled product.</p> <p>Canadian Environmental Protection Act: All of the components in this product are listed on the Domestic Substances List (DSL).</p>
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### 15.2. Chemical safety assessment

No data is available on this product.

## SECTION 16: Other information

### Other information

	<p>IARC and SCOEL publications</p> <p>In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However it pointed out that not all industrial circumstances, nor all crystalline silica types, were to be incriminated. (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.)</p> <p>In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore preventing the onset of silicosis will also reduce the cancer risk..."</p> <p>So there is a body of evidence supporting the fact that increased cancer risk would be limited to people already suffering from silicosis. Worker protection against silicosis should be assured by respecting the existing regulatory occupational exposure limits and implementing additional risk management measures where required.</p> <p>Training</p> <p>Workers must be informed of the presence of crystalline silica and trained in the proper use and handling of this product as required under applicable regulations.</p>
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### Further information

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information

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**Further information**

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	relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.
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