



# SAFETY DATA SHEET

according to Regulation (EU) 2020/878

Page 1/7

## Plasticast (R) PT binder [EU]

Revision 1  
Revision date 2024-02-09

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

#### 1.1. Product identifier

Product name	Plasticast (R) PT binder [EU]
--------------	-------------------------------

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

Description	Foundry material.
-------------	-------------------

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

Company	Ransom & Randolph
Address	3535 Briarfield Boulevard Maumee, Ohio 43537 USA
Web	www.ransom-randolph.com
Telephone	+1 (419) 865-9497
Fax	+1 (419) 865-9997
Email	SDS@ransom-randolph.com
Email address of the competent person	rcarter@ransom-randolph.com

#### 1.4. Emergency telephone number

Emergency telephone number	USA +1 419 865 9497
Company	Ransom & Randolph Co. 08:00-17:00 (US Eastern Std. / GMT minus 5)

### SECTION 2: Hazards identification

#### 2.2. Label elements

Precautionary Statement:	P262 - Do not get in eyes, on skin, or on clothing.
Prevention	Wear suitable gloves and eye/face protection.
Hazard Statement	No Significant Hazard

#### 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.
---------------	---

#### Further information

	Not applicable. PBT and vPvB assessment.
--	--

### SECTION 3: Composition/information on ingredients

## Plasticast (R) PT binder [EU]

Revision 1  
Revision date 2024-02-09**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 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 after handling the product.
--	---

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

# Plasticast (R) PT binder [EU]

Revision 1  
Revision date 2024-02-09

## 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

Plasticast (R) PT binder [EU] (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> :
	WEL 8-hr limit mg/m <sup>3</sup> total - inhalable dust:	WEL 15 min limit mg/m <sup>3</sup> total - inhalable dust:
	WEL 8-hr limit mg/m <sup>3</sup> total - respirable dust:	WEL 15 min limit mg/m <sup>3</sup> total - respirable dust:

### 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

Suitable respiratory equipment.

## SECTION 9: Physical and chemical properties

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

## Plasticast (R) PT binder [EU]

Revision 1  
Revision date 2024-02-09

## 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	Liquid
<b>Colour</b>	Clear
<b>pH</b>	9 - 11
<b>Initial boiling point</b>	100 °C
<b>Density / Relative Density</b>	1.2 - 1.3 (H <sub>2</sub> O = 1 @ 20 °C)
<b>Partition coefficient</b>	No data available
<b>Evaporation rate</b>	No data available
<b>Viscosity</b>	No data available
<b>Freezing Point</b>	≈ 0 °C
<b>Odour threshold</b>	Not applicable.
<b>Melting point</b>	Not applicable.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Vapour pressure</b>	Not applicable.
<b>Relative Vapour Density</b>	Not applicable.
<b>Autoignition temperature</b>	Not applicable.
<b>Fat Solubility</b>	Not applicable.
<b>Explosive properties</b>	Not applicable.
<b>Oxidising properties</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>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.
--	-----------------

## 10.2. Chemical stability

	Stable under normal conditions.
--	---------------------------------

## 10.3. Possibility of hazardous reactions

	No Significant Hazard.
--	------------------------

## 10.4. Conditions to avoid

	Direct sunlight. Do NOT allow to freeze.
--	--

## 10.5. Incompatible materials

	Sodium chloride.
--	------------------

## 10.6. Hazardous decomposition products

	None.
--	-------

## SECTION 11: Toxicological information

## 11.1 Information on hazard classes

<b>Acute toxicity</b>	Based on available data, the classification criteria are not met.
-----------------------	---

## Plasticast (R) PT binder [EU]

Revision 1  
Revision date 2024-02-09

## 11.1 Information on hazard classes

Skin corrosion/irritation	May cause irritation to skin.
Serious eye damage/irritation	May cause irritation to eyes.
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

Plasticast (R) PT binder [EU]	Oral Rat LD50: > 15 g/kg
-------------------------------	--------------------------

## SECTION 12: Ecological information

## 12.1. Toxicity

Plasticast (R) PT binder [EU]	Daphnia EC50/48h: 7600.000 mg/l Brachydanio Rerio LC50/96h: >5000	Green Algae EC50/48h: 440 mg/l
-------------------------------	--	--------------------------------

## 12.2. Persistence and degradability

	No data is available on this product.
--	---------------------------------------

## 12.3. Bioaccumulative potential

	Does not bioaccumulate.
--	-------------------------

## Partition coefficient

	Plasticast (R) PT binder [EU] No data available
--	---

## 12.4. Mobility in soil

	No data is available on this product.
--	---------------------------------------

## 12.5. Results of PBT and vPvB assessment

	Not applicable.
--	-----------------

## 12.7 Other adverse effects

	Not applicable.
--	-----------------

## SECTION 13: Disposal considerations

## 13.1. Waste treatment methods

	Dispose of in compliance with all. local and national regulations.
--	--

## Disposal methods

	Contact a licensed waste disposal company.
--	--

## Disposal of packaging

	Do NOT reuse empty containers. Empty containers can be sent for disposal or recycling.
--	--

## Plasticast (R) PT binder [EU]

Revision 1  
Revision date 2024-02-09

## Further information

	For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.
--	--

## SECTION 14: Transport information

## 14.1. UN number

	The product is not classified as dangerous for carriage.
--	--

## 14.2. UN proper shipping name

	The product is not classified as dangerous for carriage.
--	--

## 14.3. Transport hazard class(es)

	The product is not classified as dangerous for carriage.
--	--

## 14.4. Packing group

	The product is not classified as dangerous for carriage.
--	--

## 14.5. Environmental hazards

	The product is not classified as dangerous for carriage.
--	--

## 14.6. Special precautions for user

	The product is not classified as dangerous for carriage.
--	--

## 14.7 Maritime Transport in bulk according to IMO instruments

	The product is not classified as dangerous for carriage.
--	--

## Further information

	The product is not classified as dangerous for carriage.
--	--

## SECTION 15: Regulatory information

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

<b>Regulations</b>	<p>COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.</p> <p>REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.</p>
--------------------	--

## 15.2. Chemical safety assessment

	No data is available on this product.
--	---------------------------------------

## SECTION 16: Other information

## 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 relates only to the specific material designated and may not be valid for such material used in
--	--

## Plasticast (R) PT binder [EU]

Revision 1  
Revision date 2024-02-09

---

**Further information**

---

	combination with any other materials or in any other process.
--	---

	<b>Training</b>
--	-----------------

	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.
--	---

---