

## SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

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### Plasticast (R) investment [NA]

Revision 3
Revision date 2017-03-27

I	SECTION 1: I	Identification of	the substance/mixture	e and of the co	mpany/undertaking
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#### 1.1. Product identifier

Product name Plasticast (R) investment [NA]

#### 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 Ransom & Randolph
Address 3535 Briarfield Boulevard.

Maumee, OH 43537 USA

Web www.ransom-randolph.com

Telephone +1 (419) 865-9497

Fax +1 (419) 865-9997

Email RR.SDS@dentsply.com

RR.SDS@dentsply.com

competent person

#### 1.4. Emergency telephone number

Emergency telephone number USA +1 419 865 9497

Company Ransom & Randolph Co.

07:30 to 16:30 (Eastern Std. / GMT minus 5)

#### SECTION 2: Hazards identification

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

2.1.2. Classification - EC

1272/2008

Carc. 1A: H350; STOT RE 1: H372;

#### 2.2. Label elements

#### Hazard pictograms



#### Signal Word

Hazard Statement

Danger

Carc. 1A: H350 - May cause cancer (lungs), Inhalation.

STOT RE 1: H372 - Causes damage to organs (lungs) through prolonged or repeated exposure

inhalation.

Precautionary Statement:

Prevention

P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P260 - Do not breathe dust/fume/gas/mist/vapours/spray.

P264 - Wash (hands) thoroughly after handling.

P270 - Do no eat, drink or smoke when using this product.

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	P280 - Wear protective gloves/protective clothing/eye protection/face protection. P285 - In case of inadequate ventilation wear respiratory protection.
Precautionary Statement:	P308+P313 - IF exposed or concerned: Get medical advice/attention.
Response	P314 - Get medical advice/attention if you feel unwell.
Precautionary Statement:	P405 - Store locked up.
Storage	
Precautionary Statement:	P501 - Dispose of contents/container to local and national regulations
Disposal	
2.3. Other hazards	

Other hazards	Product contains crystalline silica.
Further information	

Not applicable. 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	M-factor.
Calcium sulfate (Plaster of Paris)		26499-65-0			20 - 30%		

#### EC 1272/2008

Chemical Name	Index No. CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
silica (cristobalite conc. >/= 1.0 %)	14464-46	1 238-455-4		50 - 60%	G Carc. 1A: H350; STOT RE 1: H372;	
Calcium sulfate (Plaster of Paris)	26499-65	-0		20 - 30%	Ó	
quartz (conc. >/= 1.0%)	14808-60	-7 238-878-4		1 - 10%	6 Carc. 1A: H350; STOT RE 1: H372;	

#### **Further information**

Full text for all Risk Phrases mentioned in this section are displayed in Section 16.

#### 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

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5.1. Extinguishing media		
	Use extinguishing media appropriate t	o the surrounding fire conditions.
5.2. Special hazards arising fror	n the substance or mixture	
	Burning produces irritating, toxic and o	obnoxious fumes.
5.3. Advice for firefighters		
	Self-contained breathing apparatus. W	/ear suitable protective clothing.
SECTION 6: Accidental rele	ase measures	
6.1. Personal precautions, prote	ctive equipment and emergency proced	ures
	Avoid raising dust. Wear suitable resp	iratory equipment when necessary.
6.2. Environmental precautions		
	No environmental requirements.	
6.3. Methods and material for co	ontainment and cleaning up	
	Avoid raising dust. Clean the area usin containers for disposal.	ng a vacuum cleaner. Transfer to suitable, labelled
6.4. Reference to other sections		
	See section [2, 8 & 13] for further infor	mation.
SECTION 7: Handling and s	torage	
7.1. Precautions for safe handling	ng	
	Avoid raising dust. Ensure adequate v ventilation, wear suitable respiratory e	entilation of the working area. In case of insufficient quipment.
	Do not eat, drink or smoke in areas when handling the product.	nere this product is used or stored. Wash hands after
7.2. Conditions for safe storage,	including any incompatibilities	
	Keep containers tightly closed.	
7.3. Specific end use(s)		
	Foundry material.	
SECTION 8: Exposure contr	ols/personal protection	
8.1. Control parameters		
<u>-</u>		
	exposure limits - Crystalline Silica, Cri fraction); 10 mg/m3 / [ 2(% Silica + 2)]	
	exposure limits - Crystalline Silica, qua fraction); 10 mg/m3 / (% Silica + 2) T	
8.1.1. Exposure Limit Values		
Calcium sulfate (Plaster of Paris)	WEL 8-hr limit ppm: -	WEL 8-hr limit mg/m3: -
	WEL 15 min limit ppm: -	WEL 15 min limit mg/m3: -
	WEL 8-hr limit mg/m3 total 10 inhalable dust:	WEL 15 min limit mg/m3 total  - inhalable dust:
	WEL 8-hr limit mg/m3 total 4 respirable dust:	WEL 15 min limit mg/m3 total - respirable dust:
	-	
8.2. Exposure controls		

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#### 8.2. Exposure controls





8.2.1. Appropriate engineering

controls

8.2.2. Individual protection

measures

Eye / face protection

Skin protection -Handprotection

Respiratory protection

8.2.3. Environmental exposure

controls

Occupational exposure controls

Ensure adequate ventilation of the working area.

Protective clothing.

In case of splashing, wear:. Approved safety goggles. safety glasses with side-shields.

Wear suitable gloves.

Suitable respiratory equipment.

Not normally required.

Appropriate local exhaust ventilation is required.

#### SECTION 9: Physical and chemical properties

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

**Appearance** Powder

Off white Colour

Odour Slight

pН 6 - 8

Melting point No data available

Freezing Point Not applicable.

Initial boiling point Not applicable.

Flash point Not applicable.

**Evaporation rate** Not applicable.

Flammability (solid, gas) Not applicable.

Vapour pressure Not applicable.

Vapour density

Not applicable.

Relative density 2.5

Fat Solubility Not applicable.

Partition coefficient Autoignition temperature Not applicable.

No data available

Viscosity

No data available

**Explosive properties** 

Not applicable.

Oxidising properties

Not applicable.

Solubility

Slightly soluble in water

#### 9.2. Other information

Conductivity No data available

Surface tension

No data available

Gas group Benzene Content Not applicable.

Not applicable.

Lead content

Not applicable.

VOC (Volatile organic compounds) Not applicable.

#### SECTION 10: Stability and reactivity

# 10.1. Reactivity



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10.1. Reactivity	
	Not applicable.
10.2. Chemical stability	
	Stable under normal conditions.
10.3. Possibility of hazardous re	actions
	No Significant Hazard.
10.4. Conditions to avoid	· · · · · · · · · · · · · · · · · · ·
	Moisture.
10.5. Incompatible materials	i Molotare.
10.5. Incompatible materials	No Cignificant Hayard
40.011 1 1 11	No Significant Hazard.
10.6. Hazardous decomposition	
	Hazardous Decomposition Products (silica): Crystalline silica will dissolve in hydrofluoric acid and produce silicone tetrafluoride. Reaction with water or acids generates heat.
SECTION 11: Toxicological i	nformation
11.1. Information on toxicologica	al effects
Acute toxicity	Based on available data, the classification criteria are not met.
Skin corrosion/irritation	Prolonged or repeated exposure may cause irritation to skin and mucous membranes.
Serious eye damage/irritation	No irritation expected.
Respiratory or skin sensitisation	No sensitizaton effects reported.
Germ cell mutagenicity	No mutagenic effects reported.
Carcinogenicity	Known Human Carcinogens (Category 1).
Reproductive toxicity	No observed effect level. No observed effect concentration.
STOT-single exposure	No known adverse health effects.
STOT-repeated exposure	Chronic effects Prolonged inhalation of respirable crystalline silica In 1997, the International Agency for Research on Cancer (IARC) 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 fibers, 1997, Vol. 68, IARC, Lyon, France). In June 2003, the European Commission's Scientific Committee for Occupational Exposure Limits (SCOEL) concluded:  "that the main effect in humans of the inhalation of respirable crystalline silica is silicosis. There is sufficient information to conclude that the relative lung cancer risk 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. Since a clear threshold for silicosis development cannot be identified, any reduction of exposure will reduce the risk of silicosis."  (SCOEL SUM Doc 94-final on respirable crystalline silica, June 2003)  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
Aspiration hazard	management measures where required (see Section 16).  No Significant Hazard.
Repeated or prolonged exposure	Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system.
11.1.4. Toxicological Information	· 1
	No data available
	110 data divaliable

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SECTION 12: Ecological info	SECTION 12: Ecological information			
12.1. Toxicity				
	No data available			
12.2. Persistence and degradab	ility			
	No data is available on this product.			
12.3. Bioaccumulative potential				
	Does not bioaccumulate.			
Partition coefficient				
	Plasticast (R) investment [NA] No data available			
12.4. Mobility in soil				
	Not determined.			
12.5. Results of PBT and vPvB a	assessment			
	Not determined.			
12.6. Other adverse effects				
	Not applicable.			
SECTION 13: Disposal cons	iderations			
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				
	Empty containers can be sent for disposal or recycling.			
SECTION 14: Transport info	rmation			
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 use				
	The product is not classified as dangerous for carriage.			
14.7. Transport in bulk according	g to Annex II of MARPOL 73/78 and the IBC Code			
<b>-</b>	The product is not classified as dangerous for carriage.			
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

#### U.S. FEDERAL REGULATIONS:

CERCLA 103 Reportable Quantity: Plasticast ® is not subject to CERCLA reporting requirements. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

#### SARA TITLE III:

Hazard Category For Section 311/312: Chronic health

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

Section 302 Extremely Hazardous Substances (TPQ): None

EPA Toxic Substances Control Act (TSCA) Status: All of the components of this product are listed on the TSCA inventory.

#### U.S. STATE REGULATIONS

California Proposition 65: This product contains the following substances known to the State of California to cause cancer: Crystalline Silica as Quartz and Cristobalite (< 80 %);

#### INTERNATIONAL REGULATIONS:

Canadian Environmental Protection Act: All of the components in this product are listed on the Domestic Substances List (DSL).

Canadian WHMIS Classification: Class D2A (Chronic toxic effects), D2A (Carcinogenicity).

#### 15.2. Chemical safety assessment

No data is available on this product.

#### SECTION 16: Other information

#### Other information

Revision	This document differs from the previous version in the following areas:.
	2 - Precautionary Statement: Prevention.
Text of Hazard Statements in	Carc. 1A: H350 - May cause cancer .
Section 3	STOT RE 1: H372 - Causes damage to organs through prolonged or repeated exposure.

#### **Further information**

#### Training

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.

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 combination with any other materials or in any other process.