

## SAFETY DATA SHEET

according to Regulation (EU) 2015/830

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#### P10 (TM) Binding Agent [NA]

Revision **Revision date** 2019-05-03

SECTION 1: Identification of the substance/mixture and of the company/undertaking	SECTION 1:
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#### 1.1. Product identifier

**Product name** P10 (TM) Binding Agent [NA]

#### 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, PO Box 1570

Maumee, Ohio 43537 USA

Web www.ransom-randolph.com

Telephone +1 (419) 865-9497 +1 (419) 865-9997 Fax **Email** RR.SDS@dentsply.com

Email address of the RR.SDS@dentsply.com competent person

#### 1.4. Emergency telephone number

**Emergency telephone number** 

Company

USA +1 419 865 9497

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

Skin Irrit. 2: H315; Eye Irrit. 2: H319; Carc. 1A: H350; STOT RE 1: H372;

#### 2.2. Label elements

This substance / mixture has been classified in accordance with the US Federal OSHA Hazard Communication Standard 29CFR 1910.1200. Substance concentration band-ranges are presented, and minor ingredient compostion maybe wihtheld, to protect trade secrets.

#### Hazard pictograms





### Signal Word

**Hazard Statement** 

### Danger

Skin Irrit. 2: H315 - Causes skin irritation.

Eye Irrit. 2: H319 - Causes serious eye irritation.

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

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

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## SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

#### EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Urea phosphate		4861-19-2			50 - 60%	Skin Irrit. 2: H315; Eye Irrit. 2: H319;
quartz (conc. >/= 1.0%)		14808-60-7	238-878-4		40 - 50%	Carc. 1A: H350; STOT RE 1: H372;
urea		57-13-6				Skin Irrit. 2: H315; Eye Irrit. 2: H319; STOT SE 3: H335;

#### **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 syr	mptoms persist.
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SECTION 5: Firefighting measures  3.1. 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  Avoid raising dust.  6.2. Environmental precautions  Use appropriate container to avoid environmental contamination.  6.3. Methods and material for containment and cleaning up  Avoid raising dust. Clean the area using a vacuum cleaner. Transfer to suitable, labelled containers for disposal.  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 formation of dust. Ensure adequate ventilation of the working area. < OEL: Occupational exposure limit. In case of insufficient ventilation, wear suitable respiratory equipment.  Do not eat, drink or smoke in areas where this product is used or stored. Wash hands after handling the product.  7.2. Conditions for safe storage, including any incompatibilities  Keep containers tightly closed.  7.3. Specific end use(s)  Foundry material.  SECTION 8: Exposure controls/personal protection  8.1. Control parameters  all respirable crystaline silica - sum of all types - quartz + cristoabilite TWA PEL OSHA (respirable fraction) 0.056 mg/m3.  Action Level OSHA (respirable fraction) 0.025 mg/m3.  8.2. Exposure controls  8.2.1. Appropriate engineering controls  Avoid contact with eyes. Wear Approved safety goggles, safety glasses with side-shields.	Skin contact	Seek medical attention if irritation or symptoms persist.
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		Wear:. Protective clothing. applicable international Standards are. EN13982, ANSI 103 or =.
applicable international Standards are. EN166, ANSI Z87.1 or =.	Eye / face protection	

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8.2. Exposure controls

Avoid contact with skin. Wear suitable gloves. applicable international Standards are. EN374, Skin protection -ASTM F1001 or = Handprotection Respiratory protection Exposure above the recommended occupational exposure limit (OEL) may cause adverse health

effects.

After seletion by a Qualifed person. Wear:. Suitable respiratory equipment. applicable international Standards are. EN140, EN143, ASTM F2704-10 or =.

8.2.3. Environmental exposure controls

Use appropriate container to avoid environmental contamination.

#### SECTION 9: Physical and chemical properties

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

Appearance Crystals. Colour White

Odour threshold Not applicable.

На 1 - 3

Melting point = 118 °C

Freezing Point Not applicable.

Initial boiling point Not applicable.

Flash point Not applicable.

**Evaporation rate** Not applicable.

Flammability (solid, gas) Not applicable.

Vapour density Not applicable.

Vapour pressure Not applicable.

Relative density

No data available

Fat Solubility

Not applicable.

Partition coefficient No data available

Autoignition temperature Viscosity

Not applicable. No data available

**Explosive properties** Not applicable.

Oxidising properties

Not applicable.

Solubility

Soluble in water

#### 9.2. Other information

Conductivity No data available Surface tension No data available

Gas group

Not applicable.

Benzene Content Not applicable.

Lead content Not applicable.

VOC (Volatile organic

Not applicable.

compounds)

#### 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

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10.4. Conditions to avoid	
	Moisture.
10.5. Incompatible materials	
	No Significant Hazard.
10.6. Hazardous decomposition	products
	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	information
11 1 Information on toxicologics	al effects

#### 11.1. Information on toxicological effects

Acute toxicity
Skin corrosion/irritation
Serious eye damage/irritation
Respiratory or skin
sensitisation
Germ cell mutagenicity
Carcinogenicity
Reproductive toxicity
STOT-single exposure
STOT-repeated exposure

Based on available data, the classification criteria are not met.

Prolonged or repeated exposure may cause irritation to skin and mucous membranes.

No irritation expected.

No sensitizaton effects reported.

No mutagenic effects reported.

Known Human Carcinogens (Category 1).

No observed effect level. No observed effect concentration.

No known adverse health effects.

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 management measures where required (see Section 16).

Aspiration hazard

Repeated or prolonged exposure

No Significant Hazard.

Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system.

#### SECTION 12: Ecological information

#### 12.2. Persistence and degradability

No data is available on this product.

#### 12.3. Bioaccumulative potential

Does not bioaccumulate.

#### Partition coefficient

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Partition coefficient	
Partition coefficient	D40 (TAI) Dinding Aport - DIAI No data a citable
	P10 (TM) Binding Agent [NA] No data available
12.4. Mobility in soil	
	Not determined.
12.5. Results of PBT and vPvB	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
Further information	
	The product is not classified as dangerous for carriage.
SECTION 15: Regulatory inf	ormation
15.2. Chemical safety assessme	
Total online during addition	No data is available on this product.
SECTION 16: Other informa	
SECTION 16: Other informa	LIOTI
Other information	This decreased different from the provider control of the following research
Revision	This document differs from the previous version in the following areas:.  2 - Hazard pictograms.
Text of Hazard Statements in	Skin Irrit. 2: H315 - Causes skin irritation.
Section 3	Eye Irrit. 2: H319 - Causes serious eye irritation.
	Carc. 1A: H350 - May cause cancer . STOT RE 1: H372 - Causes damage to organs through prolonged or repeated exposure .
	STOT SE 3: H335 - May cause respiratory irritation.
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.