

SAFETY DATA SHEET

according to Regulation (EU) 2015/830

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Rancast investment EU

Revision 0 Revision date 2018-06-05

1.1. Product identifier

Product name Rancast investment EU

Product code Rancast investment 060518 C239

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

 Fax
 +1 (419) 865-9997

 Email
 RR.SDS@dentsply.com

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

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 STOT RE 1: H372; **1272/2008**

2.2. Label elements

Hazard pictograms



Signal Word

Hazard Statement STO

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

Precautionary Statement:

Prevention

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

P264 - Wash (hands) thoroughly after handling.

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2.2.	Label	elem	ents

	P270 - Do no eat, drink or smoke when using this product.	
Precautionary Statement:	P314 - Get medical advice/attention if you feel unwell.	
Response		
Precautionary Statement:	P501 - Dispose of contents/container to local and national regulations	
Disposal		
2.3. Other hazards		
Other hazards	Product contains respirable crystalline silica (RCS).	
	Not applicable. PBT and vPvB assessment.	

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
Quartz		14808-60-7	238-878-4		30 - 40%	STOT RE 1: H372;
Silica (cristobalite)		14464-46-1	238-455-4		20 - 30%	STOT RE 1: H372;
Calcium sulfate (Plaster of Paris)		26499-65-0			20 - 30%	

Further information

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

Quartz "fine fraction" >= 10 % w/w / CAS 14808-60-7, EC No 238-878-4 / STOT RE1: H372.

Silica (Cristobalite) "fine fraction" \geq 10 % w/w / CAS 14464-46-1, EC No 238-455-4 / STOT RE1: H372.

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 to the surrounding fire conditions.
5.2. Special hazards arising from	n 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 relea	ase measures
6.1. Personal precautions, prote	ective equipment and emergency procedures
	Avoid formation of dust. Wear suitable respiratory 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 using a vacuum cleaner. Transfer to suitable, labelled container.
6.4. Reference to other sections	
	See section [2, 8 & 13] for further information.
SECTION 7: Handling and s	torage
7.1. Precautions for safe handling	ng
7.1. Precautions for safe handling	Ensure adequate ventilation of the working area. Avoid formation of dust. In case of insufficient ventilation, wear suitable respiratory equipment.
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7.1. Precautions for safe handling 7.2. Conditions for safe storage,	Ensure adequate ventilation of the working area. Avoid formation of dust. 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.
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7.2. Conditions for safe storage, 7.3. Specific end use(s)	Ensure adequate ventilation of the working area. Avoid formation of dust. 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. including any incompatibilities Keep containers tightly closed. Foundry material.
7.2. Conditions for safe storage, 7.3. Specific end use(s) SECTION 8: Exposure contr	Ensure adequate ventilation of the working area. Avoid formation of dust. 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. including any incompatibilities Keep containers tightly closed. Foundry material.
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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:
Quartz	WEL 8-hr limit ppm:	WEL 8-hr limit mg/m3: 0.3
	WEL 15 min limit ppm:	WEL 15 min limit mg/m3:
	WEL 8-hr limit mg/m3 total - inhalable dust:	WEL 15 min limit mg/m3 total - inhalable dust:
	WEL 8-hr limit mg/m3 total - respirable dust:	WEL 15 min limit mg/m3 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	Wear protective clothing.
measures	
Eye / face protection	In case of splashing, wear:. Approved safety goggles. safety glasses with side-shields.
Skin protection -	Wear suitable gloves.
Handprotection	
Respiratory protection	Suitable respiratory equipment.
8.2.3. Environmental exposure	Not normally required.
controls	
Occupational exposure	Appropriate local exhaust ventilation is required.
controls	

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Powder
Colour	Off white
Odour	Slight
pH	6 - 8
Melting point	No data available
Freezing Point	Not applicable.
Initial boiling point	Not applicable.
Flash point	Not applicable.
Vapour pressure	Not applicable.
Vapour density	Not applicable.
Relative density	2.6 (H2O = 1 @ 20 °C)
Fat Solubility	Not applicable.
Partition coefficient	No data available
Autoignition temperature	Not applicable.
Viscosity	No data available
Oxidising properties	Not applicable.
Solubility	Slightly miscible in water

9.2. Other information

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9.2. Other information

Conductivity
Surface tension
Benzene Content
Lead content

No data available

No data available Not applicable.

ent 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

No Significant Hazard.

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 information

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

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

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

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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

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11.1. Information on toxicological effects
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 Not applicable. Based on available data, the classification criteria are not met.
Repeated or prolonged Inhalation of dust may cause shortness of breath. exposure
SECTION 12: Ecological information
12.2. Persistence and degradability
Not applicable.
12.3. Bioaccumulative potential
Does not bioaccumulate.
Partition coefficient
Rancast investment EU 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 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.
Further information
For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.
SECTION 14: Transport information
Further information
The product is not classified as dangerous for carriage.
SECTION 15: Regulatory information

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

Regulations

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.

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.

15.2. Chemical safety assessment

No data is available on this product.

SECTION 16: Other information

Other 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.

Social Dialogue on Respirable Crystalline Silica

A multi-sectoral social dialogue agreement on Workers Health Protection through the Good Handling and Use of Crystalline Silica and Products Containing it was signed on 25 April 2006. This autonomous agreement, which receives the European Commission's financial support, is based on a Good Practices Guide. The requirements of the Agreement came into force on 25 October 2006. The Agreement was published in the Official Journal of the European Union (2006/C 279/02). The text of the Agreement and its annexes, including the Good Practices Guide, are available from http://www.nepsi.eu and provide useful information and guidance for the handling of products containing respirable crystalline silica. Literature references are available on request from EUROSIL, the European Association of Industrial Silica Producers,.

STOT RE1: H372 - DANGER - Causes damage to lungs through prolonged or repeated exposure by inhalation.

Text of Hazard Statements in Section 3

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

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 combination with any other materials or in any other process.