

SAFETY DATA SHEET

according to Regulation (EU) 2020/878

Plasticast (R) investment

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 Revision
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 Revision date
 2023-10-31

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SECTION 1: Identification of	the substance/mixture and of the company/undertaking
1.1. Product identifier	
Product name	Plasticast (R) investment
Nanoform	No data available.
1.2. Relevant identified uses of t	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	e 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	rcarter@ransom-randolph.com
competent person	
1.4. Emergency telephone num	ber
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 identif	ication
2.1. Classification of the substar	nce or mixture
2.1.2. Classification - EC 1272/2008	STOT RE 1: H372;
2.2. Label elements	
Hazard pictograms	
Signal Word	Danger
Hazard Statement	STOT RE 1: H372 - Causes damage to organs (lungs) through prolonged or repeated exposure inhalation.
Precautionary Statement:	P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
Prevention	P264 - Wash (hands) thoroughly after handling.
	P270 - Do not eat, drink or smoke when using this product.
Precautionary Statement: Response	P314 - Get medical advice/attention if you feel unwell.



2.2. Label elements	
Precautionary Statement: Disposal	P501 - Dispose of contents/container to local and national regulations
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. Classification (%w/w)
Silica (cristobalite)		14464-46-1	238-455-4		50 - 60% STOT RE 1: H372;
Calcium sulfate (Plaster of Paris)		26499-65-0			20 - 30%
Quartz		14808-60-7	238-878-4		10 - 20% STOT RE 1: H372;

Particle Characteristics

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			
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

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6.1. Personal precautions, protective equipment and emergency procedures Avoid formation of 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. HEPA filtered. 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 formation of dust. Ensure adequate ventilation of the working area. <. OEL: Occupational exposure limit. 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 OEL: Occupational exposure limit. guartz - 0.1 mg/m3 (respirable fraction); cristobalite - 0.1 mg/m3 (respirable fraction). 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 WEL 15 min limit mg/m3 total inhalable dust: inhalable dust: WEL 8-hr limit mg/m3 total 4 WEL 15 min limit mg/m3 total -

	respirable dust:	respirable dust:
Quartz	WEL 8-hr limit ppm:	WEL 8-hr limit mg/m3: .1
	WEL 15 min limit ppm:	WEL 15 min limit mg/m3:
	WEL 8-hr limit mg/m3 total -	WEL 15 min limit mg/m3 total -
	inhalable dust:	inhalable dust:
	WEL 8-hr limit mg/m3 total -	WEL 15 min limit mg/m3 total -
	respirable dust:	respirable dust:

8.2. Exposure controls

8.2.1. Appropriate engineering controls	Ensure adequate ventilation of the working area. <. OEL: Occupational exposure limit.
8.2.2. Individual protection measures	Wear protective clothing. EN13982, ANSI 103 or =.
Eye / face protection	Avoid contact with eyes. Wear:. Approved safety goggles. safety glasses with side-shields. EN166,

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8.2. Exposure controls			
	ANSI Z87.1 or =.		
Skin protection -	Avoid contact with skin. Wear suitable gloves. EN374, ASTM F1001 or =.		
Handprotection			
Respiratory protection	Exposure above the recommended occupational exposure limit (OEL) may cause adverse health effects. Wear:. Suitable half mask respirator with filter P3 (EN 143). 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	Powder
	Off white
	Slight
Viscosity	Not applicable.
Explosive properties	No data available
Oxidising properties	Not applicable.
pH	6 - 8
Melting point	No data available
Freezing Point	Not applicable.
Initial boiling point	Not applicable.
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	Not applicable.
Vapour pressure	Not applicable.
Relative Vapour Density	Not applicable.
Density / Relative Density	≈ 2.5
Fat Solubility	Not applicable.
Partition coefficient	Not applicable.
Autoignition temperature	No data available
Solubility	Slightly soluble in water

9.2. Other information

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

9.2.1. Information with regard to physical hazard classes

No data available.

9.2.2. Other safety characteristics

No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Not applicable.

10.2. Chemical stability

Stable under normal conditions.

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10.3. Possibility of hazardous re	actions
	No Significant Hazard.
10.4. Conditions to avoid	
	No Significant Hazard.
10.5. Incompatible materials	
	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	
11.1 Information on hazard class	ses
Acute toxicity	Not applicable. Based on available data, the classification criteria are not met.
Skin corrosion/irritation	Not applicable. Based on available data, the classification criteria are not met.
Serious eye damage/irritation	Not applicable. Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	Not applicable. Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Not applicable. Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Not applicable. Based on available data, the classification criteria are not met.
STOT-single exposure	Not applicable. Based on available data, the classification criteria are not met.
	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." (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 exposure	Inhalation of dust may cause shortness of breath.
11.1.4. Toxicological Information	1
	No data available
11.2 Information on other hazard	1
	No data available.
SECTION 12: Ecological info	prmation



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12.1. Toxicity	
	No data available
12.2. Persistence and degradat	ility
	Not applicable.
12.3. Bioaccumulative potential	
	Does not bioaccumulate.
Partition coefficient	
	Plasticast (R) investment Not applicable.
12.4. Mobility in soil	
	Not determined.
12.5. Results of PBT and vPvB	1
	Not determined.
12.6 Endocrine disrupting prope	1
	No data available.
12.7 Other adverse effects	<u>1</u>
	Not applicable.
SECTION 13: Disposal cons	siderations
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 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 us	er
	The product is not classified as dangerous for carriage.

14.7 Maritime Transport in bulk according to IMO instruments



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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

Regulations	WGK 1.
	COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
	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

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.
	Casial Dislamus on Despirable Organiling Ciling
	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.
Revision	This document differs from the previous version in the following areas:.
	12 - 12.6 Endocrine disrupting properties.
	15 - Regulations.
Text of Hazard Statements in	STOT RE 1: H372 - Causes damage to organs through prolonged or repeated exposure .
Section 3	
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.

