



SAFETY DATA SHEET

according to Regulation (EU) 2015/830

Page 1/8

R&R Glass-Cast 101 Bandust(TM) investment [NA]

Revision 2

Revision date 2017-04-27

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

1.1. Product identifier

Product name R&R Glass-Cast 101 Bandust(TM) 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, PO Box 1570
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 dyouel@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

2.1. 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 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 composition maybe withheld, to protect trade secrets.



Signal Word Danger

Hazard Statement 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.

R&R Glass-Cast 101 Bandust(TM) investment [NA]

Revision 2

Revision date 2017-04-27

2.2. Label elements

Precautionary Statement: Response	P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
	P264 - Wash (hands) thoroughly after handling.
	P270 - Do not eat, drink or smoke when using this product.
	P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statement: Storage	P308+P313 - IF exposed or concerned: Get medical advice/attention.
	P314 - Get medical advice/attention if you feel unwell.
Precautionary Statement: Disposal	P405 - Store locked up.
	P501 - Dispose of contents/container to local and national regulations

2.3. Other hazards

Other hazards	Product contains crystalline silica.
	P285 - In case of inadequate ventilation wear respiratory protection.

Further information

	Not applicable. PBT and vPvB assessment.
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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
Calcium sulfate (Plaster of Paris)		26499-65-0			30 - 40%	
silica (cristobalite conc. \geq 1.0 %)		14464-46-1	238-455-4		30 - 40%	Carc. 1A: H350; STOT RE 1: H372;
quartz (conc. \geq 1.0%)		14808-60-7	238-878-4		30 - 40%	Carc. 1A: H350; STOT RE 1: H372;

Further information

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

R&R Glass-Cast 101 Bandust(TM) investment [NA]

Revision 2
Revision date 2017-04-27

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

Avoid raising dust. Wear suitable respiratory equipment when necessary.

6.2. Environmental precautions

No environmental requirements.

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 raising dust. Ensure adequate ventilation of the working area. 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

exposure limits - Crystalline Silica, Cristobalite - 0.025 mg/m3 TWA ACGIH TLV (respirable fraction); 50 ug/m3 8-hr TWA PEL (respirable fraction).

exposure limits - Crystalline Silica, quartz - 0.025 mg/m3 TWA ACGIH TLV (respirable fraction); 50 ug/m3 8 hr -TWA PEL (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:


8.2. Exposure controls

R&R Glass-Cast 101 Bandust(TM) investment [NA]

Revision 2

Revision date 2017-04-27

8.2. Exposure controls

	
8.2.1. Appropriate engineering controls	Ensure adequate ventilation of the working area.
8.2.2. Individual protection measures	Protective clothing.
Eye / face protection	In case of splashing, wear: Approved safety goggles. safety glasses with side-shields.
Skin protection - Handprotection	Wear suitable gloves.
Respiratory protection	Suitable respiratory equipment.
8.2.3. Environmental exposure controls	Not normally required.
Occupational exposure controls	Appropriate local exhaust ventilation is required.

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
Relative density	2.5
Partition coefficient	No data available
Viscosity	No data available
Melting point	No data available
Freezing Point	Not applicable.
Initial boiling point	Not applicable.
Flash point	Not applicable.
Flammability (solid, gas)	Not applicable.
Vapour pressure	Not applicable.
Vapour density	Not applicable.
Explosive properties	Not applicable.
Oxidising properties	Not applicable.
Autoignition temperature	Not applicable.
Fat Solubility	Not applicable.
Odour threshold	Not applicable.
Solubility	Miscible in water

9.2. Other information

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

SECTION 10: Stability and reactivity

10.1. Reactivity

R&R Glass-Cast 101 Bandust(TM) investment [NA]

Revision 2

Revision date 2017-04-27

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	
	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 information	
11.1. Information on toxicological 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 sensitization 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	<p>Chronic effects</p> <p>Prolonged inhalation of respirable crystalline silica</p> <p>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:</p> <p>"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."</p> <p>(SCOEL SUM Doc 94-final on respirable crystalline silica, June 2003)</p> <p>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).</p>
Aspiration hazard	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	
	Not applicable.

R&R Glass-Cast 101 Bandust(TM) investment [NA]

Revision 2

Revision date 2017-04-27

SECTION 12: Ecological information**12.1. Toxicity**

No data available

12.2. Persistence and degradability

No data is available on this product.

12.3. Bioaccumulative potential

Does not bioaccumulate.

Partition coefficient

R&R Glass-Cast 101 No data available
Bandust(TM) investment [NA]

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

Empty containers can be sent for disposal or recycling.

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. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

The product is not classified as dangerous for carriage.

Further information

The product is not classified as dangerous for carriage.

R&R Glass-Cast 101 Bandust(TM) investment [NA]

Revision 2

Revision date 2017-04-27

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Regulations	<p>U.S. FEDERAL REGULATIONS: GB-2 investment. CERCLA 103 Reportable Quantity: Bandust is not subject to CERCLA reporting requirements. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.</p> <p>SARA TITLE III: Hazard Category For Section 311/312: Chronic health</p> <p>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</p> <p>Section 302 Extremely Hazardous Substances (TPQ): None</p> <p>EPA Toxic Substances Control Act (TSCA) Status: All of the components of this product are listed on the TSCA inventory.</p> <p>U.S. STATE REGULATIONS</p> <p>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 %);</p> <p>INTERNATIONAL REGULATIONS:</p> <p>Canadian Environmental Protection Act: All of the components in this product are listed on the Domestic Substances List (DSL).</p> <p>Canadian WHMIS Classification: Class D2A (Chronic toxic effects), D2A (Carcinogenicity).</p>
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15.2. Chemical safety assessment

No data is available on this product.

SECTION 16: Other information**Other information**

Revision	<p>This document differs from the previous version in the following areas:</p> <ul style="list-style-type: none"> 2 - 2.1. Classification of the substance or mixture. 2 - 2.1.2. Classification - EC 1272/2008. 2 - 2.2. Label elements. 2 - Hazard Statement. 2 - Precautionary Statement: Prevention. 2 - Precautionary Statement: Response. 2 - Precautionary Statement: Storage. 8 - 8.1. Control parameters. 15 - Labelling. 15 - Hazard Statement. 15 - Regulations.
Text of Hazard Statements in Section 3	<p>Carc. 1A: H350 - May cause cancer .</p> <p>STOT RE 1: H372 - Causes damage to organs through prolonged or repeated exposure .</p>

Further information

	<p>Training</p> <p>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.</p> <p>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</p>
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R&R Glass-Cast 101 Bandust(TM) investment [NA]

Revision 2

Revision date 2017-04-27

Further information

	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.
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