



# SAFETY DATA SHEET

according to Regulation (EU) 2020/878

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## Ultra-Vest (TM) investment with fiberglass

Revision 5  
Revision date 2024-05-09

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

#### 1.1. Product identifier

**Product name** Ultra-Vest (TM) investment with fiberglass

#### 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  
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** rcarter@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



##### 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.

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## 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	P285 - In case of inadequate ventilation wear respiratory protection.
	P308+P313 - IF exposed or concerned: Get medical advice/attention.
Precautionary Statement: Disposal	P314 - Get medical advice/attention if you feel unwell.
	P405 - Store locked up.
	P501 - Dispose of contents/container to local and national regulations

## 2.3. Other hazards

Other hazards	Product contains crystalline silica.
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## 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
silica (cristobalite conc. >= 1.0 %)		14464-46-1	238-455-4		40 - 50%	Carc. 1A: H350; STOT RE 1: H372;
quartz (conc. >= 1.0%)		14808-60-7	238-878-4		30 - 40%	Carc. 1A: H350; STOT RE 1: H372;
Calcium sulfate (Plaster of Paris)		26499-65-0			20 - 30%	

## Particle Characteristics

	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.

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## 4.3. Indication of any immediate medical attention and special treatment needed

Ingestion	Seek medical attention if irritation or symptoms persist.
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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

	Use extinguishing media appropriate to the surrounding fire conditions.
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### 5.2. Special hazards arising from the substance or mixture

	Burning produces irritating, toxic and obnoxious fumes.
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### 5.3. Advice for firefighters

	Self-contained breathing apparatus. Wear suitable protective clothing.
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## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

	Avoid raising dust. Wear suitable respiratory equipment when necessary.
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### 6.2. Environmental precautions

	No environmental requirements.
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### 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.
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### 6.4. Reference to other sections

	See section for further information.
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## 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.
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	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, including any incompatibilities

	Keep containers tightly closed.
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### 7.3. Specific end use(s)

	Foundry material.
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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

	exposure limits: total Crystalline Silica (cristobalite plus quartz) - 0.025 mg/m <sup>3</sup> TWA ACGIH TLV (respirable fraction); 50 ug/m <sup>3</sup> 8-hr TWA PEL (respirable fraction).
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	exposure limits: total Crystalline Silica (quartz plus cristobalite) - 0.025 mg/m <sup>3</sup> TWA ACGIH TLV (respirable fraction); 50 ug/m <sup>3</sup> 8 hr -TWA PEL (respirable fraction).
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#### 8.1.1. Exposure Limit Values


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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:

## 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
Melting point	Not applicable.
Freezing Point	Not applicable.
Initial boiling point	Not applicable.
Evaporation rate	Not applicable.
Flammability (solid, gas)	Not applicable.
Vapour pressure	Not applicable.
Relative Vapour Density	Not applicable.
Density / Relative Density	2.2 - 2.7 (H2O = 1 @ 20 °C)
Fat Solubility	Not applicable.
Partition coefficient	Not applicable.
Autoignition temperature	Not applicable.
Viscosity	Not applicable.
Explosive properties	Not applicable.
Oxidising properties	Not applicable.
Solubility	Slightly soluble in water

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## 9.2. Other information

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

## SECTION 10: Stability and reactivity

## 10.1. Reactivity

	Not applicable.
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## 10.2. Chemical stability

	Stable under normal conditions.
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## 10.3. Possibility of hazardous reactions

	No Significant Hazard.
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## 10.4. Conditions to avoid

	Moisture.
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## 10.5. Incompatible materials

	No Significant Hazard.
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## 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.
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## SECTION 11: Toxicological information

## 11.1 Information on hazard classes

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	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

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## 11.1 Information on hazard classes

Aspiration hazard Repeated or prolonged exposure	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).
	No Significant Hazard.
	Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system.

## 11.1.4. Toxicological Information

Ultra-Vest (TM) investment with fiberglass	Oral Mouse LD50: >5000 mg/kg
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## SECTION 12: Ecological information

## 12.1. Toxicity

Ultra-Vest (TM) investment with fiberglass	Fish LC50/96h: 10000.000 mg/l
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## 12.2. Persistence and degradability

	No data is available on this product.
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## 12.3. Bioaccumulative potential

	Does not bioaccumulate.
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## Partition coefficient

	Ultra-Vest (TM) investment with fiberglass Not applicable.
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## 12.4. Mobility in soil

	Not determined.
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## 12.5. Results of PBT and vPvB assessment

	Not determined.
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## 12.7 Other adverse effects

	Not applicable.
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## SECTION 13: Disposal considerations

## 13.1. Waste treatment methods

	Dispose of in compliance with all. local and national regulations.
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## Disposal methods

	Contact a licensed waste disposal company.
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## Disposal of packaging

	Empty containers can be sent for disposal or recycling.
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## Ultra-Vest (TM) investment with fiberglass

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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 Maritime Transport in bulk according to IMO instruments**

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**

<b>Regulations</b>	<p>U.S. FEDERAL REGULATIONS: Ultra-Vest (family of products) CERCLA 103 Reportable Quantity: 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: less than 50%, Crystalline Silica as Cristobalite: greater than 30%.</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 D Division 2A (Very toxic material causing other toxic</p>
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## 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

	<p>effects)</p> <p>European Inventory of New and Existing Chemicals Substances (EINECS): All of the components in this product are listed on the EINECS inventory.</p> <p>Australian Inventory of Chemical Substances: All of the components in this product are listed on the AICS for Australia.</p> <p>China Inventory of Existing Chemicals and Chemical Substances: All of the components in this product are listed on the IECSC for China.</p> <p>Japanese Existing and New Chemical Substances: All of the components in this product are listed on the Japanese ENCS list.</p> <p>Korean Existing Chemicals List: All of the components in this product are listed on the KECL for Korea.</p> <p>Philippine Inventory of Chemicals and Chemical Substances: All of the components in this product are listed on the PICCS.</p>
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## 15.2. Chemical safety assessment

	No data is available on this product.
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## SECTION 16: Other information

## Other information

<b>Text of Hazard Statements in Section 3</b>	<p>Carc. 1A: H350 - May cause cancer .</p> <p>STOT RE 1: H372 - Causes damage to organs through prolonged or repeated exposure .</p>
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## 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 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.</p>
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