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## SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

## Ultra-Vest, Ultra-Vest FSM, Ultra-Vest (FAST), Ultra-Vest MAXX NA

Revision

			Revision dat	<b>e</b> 2015-05-07
SECTION 1: Identification of	f the substance/mixture and of the company/undertaking			
1.1. Product identifier				
Product name	Ultra-Vest,Ultra-Vest FSM,Ultra-Vest(FAST), Ultra-Vest MAX	X NA		
Product code	Ultra-Vest Reg- FSM- FAST- MAXX NA 050715 R191			,
1.2. Relevant identified uses of	f the substance or mixture and uses advised against			(
Description	Foundry material.	6		
1.3. Details of the supplier of th	ne safety data sheet	*	ж	
Company .	Ransom & Randolph		8	
Address	3535 Briarfield Boulevard,			
	Maumee, OH 43537 USA			
Web	www.ransom-randolph.com			
Telephone	+1 (419) 865-9497			
Fax	+1 (419) 865-9997			
Email	RR.SDS@dentsply.com	9	140	
Email address of the	RR.SDS@dentsply.com			
competent person	Ē Ē			
1.4. Emergency telephone num	ber			
Emergency telephone	USA +1 419 865 9497			
number	A			
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

2.1.1. Classification -	Xn; R48/20
1999/45/EC	Symbols: Xn: Harm

Main hazards

Harmful: danger of serious damage to health by prolonged exposure through inhalation.

2.1.2. Classification - EC STOT RE 1: H372; 1272/2008

2.2. Label elements	
Hazard pictograms	
Olana I Wand	Daniel Control of the
Signal Word	Danger
Hazard Statement	STOT RE 1: H372 - Causes damage to organs (lungs) through prolonged or repeated exposure
	inhalation.
Precautionary Statement:	P201 - Obtain special instructions before use.
Prevention	P202 - Do not handle until all safety precautions have been read and understood.
	P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
	1 200 Do not broathe adolfathorgacimos vapouroropray.

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	P264 - Wash (hands) thoroughly after handling. P270 - Do no eat, drink or smoke when using this product. P285 - In case of inadequate ventilation wear respiratory protection.
Precautionary Statement: Response	P314 - Get medical advice/attention if you feel unwell.
Precautionary Statement: Disposal	P501 - Dispose of contents/container to local and national regulations
2.3. Other hazards	

Other hazards does not meet criteria for. PBT and vPvB assessment.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

## 67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
Silica (cristobalite)		14464-46-1	238-455-4		40 - 70%	Xn; R48/20	
Quartz		14808-60-7	238-878-4		20 - 40%	Xn; R48/20	
Calcium sulfate (Plaster of Paris)		26499-65-0			20 - 40%		

## EC 1272/2008

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## 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 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.

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5.2. Special hazards arising from the substance or mbxture  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); 10 mg/m3 / [2(% Silica + 2)] TWA PEL (respirable fraction).
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exposure limits - Crystalline Silica, quartz - 0.025 mg/m3 TWA ACGIH TLV (respirable fraction); 10 mg/m3 / (% Silica + 2) TWA PEL (respirable fraction).
3.1.1. Exposure Limit Values
Calcium sulfate (Plaster of WEL 8-hr limit ppm: - WEL 8-hr limit mg/m3: -
Paris)  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: 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: 0.3
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

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#### 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

6 - 8 pH

Melting point Not applicable.

Freezing Point

Not applicable.

Initial boiling point Not applicable.

Flash point Not applicable.

Evaporation rate

Not applicable.

Flammability (solid, gas) Not applicable.

Vapour pressure

Not applicable.

Vapour density

Not applicable.

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

### 9.2. Other information

Conductivity Surface tension Not applicable.

Gas group

Not applicable.

**Benzene Content** 

Not applicable. Not applicable.

Lead content

No data available

VOC (Volatile organic compounds)

Not applicable.

### SECTION 10: Stability and reactivity

### 10.1. Reactivity

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10.1. Reactivity	
	Not applicable.
10.2. Chemical stability	
	Stable under normal conditions.
10.3. Possibility of hazardous re	
10.0.1 Ossibility of Hazardous re	
40.4. O = =	No Significant Hazard.
10.4. Conditions to avoid	
	Moisture.
10.5. Incompatible materials	
	No Significant Hazard.
10.6. Hazardous decomposition	products
	None.
SECTION 11: Toxicological i	information
11.1. Information on toxicologica	
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.
Respiratory or skin	No sensitizaton effects reported.
sensitisation	
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 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	No Significant Hazard.
Repeated or prolonged	Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system.
exposure	initial and initial states of the short and initial of the respiratory eyes.
11.1.4. Toxicological Information	
Ultra-Vest,Ultra-Vest FSM,Ultra-Vest(FAST), Ultra-Vest MAXX NA	Oral Mouse LD50: >5000 mg/kg

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SECTION 12: Ecological inf	formation
12.1. Toxicity	
Ultra-Vest,Ultra-Vest FSM,Ultra-Vest(FAST), Ultra-Vest MAXX NA	Fish LC50/96h: 10000.000 mg/l
12.2. Persistence and degrada	bility
	No data is available on this product.
12.3. Bioaccumulative potentia	I .
	and the second s
	Does not bioaccumulate.
Partition coefficient	
	Ultra-Vest,Ultra-Vest Not applicable. FSM,Ultra-Vest(FAST), Ultra-Vest MAXX 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 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	
	Empty containers can be sent for disposal or recycling.
SECTION 14: Transport info	rmation
ADR/RID	
	The product is not classified as dangerous for carriage.
IMDG	
	The product is not classified as dangerous for carriage.
IATA	
	The product is not classified as dangerous for carriage.
SECTION 15: Regulatory inf	ormation
	mental regulations/legislation specific for the substance or mixture
Regulations	U.S. FEDERAL REGULATIONS:
	CERCLA 103 Reportable Quantity: The Ultra-Vest (family of products) is not subject to CERCLA reporting requirements. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.
	SARA TITLE III: Hazard Category For Section 311/312: Chronic health
	Section 313 Toxic Chemicals: This product contains the following chemicals subject to Annual

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

Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372): None

Section 302 Extremely Hazardous Substances (TPQ): None

EPA Toxic Substances Control Act (TSCA) Status: All of the components of this product are listed on the TSCA inventory.

#### U.S. STATE REGULATIONS

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%.

#### INTERNATIONAL REGULATIONS:

Canadian Environmental Protection Act: All of the components in this product are listed on the Domestic Substances List (DSL).

Canadian WHMIS Classification: Class D Division 2A (Very toxic material causing other toxic effects)

European Inventory of New and Existing Chemicals Substances (EINECS): All of the components in this product are listed on the EINECS inventory.

Australian Inventory of Chemical Substances: All of the components in this product are listed on the AICS for Australia.

China Inventory of Existing Chemicals and Chemical Substances: All of the components in this product are listed on the IECSC for China.

Japanese Existing and New Chemical Substances: All of the components in this product are listed on the Japanese ENCS list.

Korean Existing Chemicals List: All of the components in this product are listed on the KECL for Korea

Philippine Inventory of Chemicals and Chemical Substances: All of the components in this product are listed on the PICCS.

## 15.2. Chemical safety assessment

No data is available on this product.

## SECTION 16: Other information

## Other information

### Revision

This document differs from the previous version in the following areas:.

- 2 Other hazards.
- 2 2.1.2. Classification EC 1272/2008.
- 2 Hazard pictograms.
- 2 Signal Word.
- 2 Hazard Statement.
- 2 Precautionary Statement: Prevention.
- 2 Precautionary Statement: Response.
- 2 Precautionary Statement: Disposal.

# Text of risk phrases in Section 3

R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Revision 3 Revision date 2015-05-07

Other information	
Text of Hazard Statements in Section 3	STOT RE 1: H372 - Causes damage to organs through prolonged or repeated exposure .
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.

<sup>&</sup>quot;The information herein is given in good faith, but no warranty, express or implied, is made."