

# SAFETY DATA SHEET

according to Regulation (EU) 2020/878

**Page** 1/8

# Vigorvest

Revision 0
Revision date 2024-05-09

SECTION 1: Identification of the substance/mixture and of the	ne compan	y/undertaking
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#### 1.1. Product identifier

Product name Vigorvest

#### 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 rcarter@ransom-randolph.com competent person

#### 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

Hazard Statement

# Danger

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.

Revision 0 Revision date 2024-05-09

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

Other hazards	Product contains crystalline silica.
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#### **Further information**

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
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.

# 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.

Revision 0 Revision date 2024-05-09

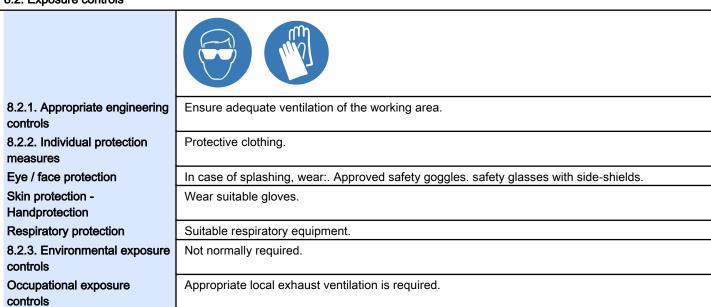
4.3. Indication of any immediate	medical attention and special treatment needed
Ingestion	Seek medical attention if irritation or symptoms persist.
SECTION 5: Firefighting mea	asures
5.1. Extinguishing media	
	Use extinguishing media appropriate to the surrounding fire conditions.
5.2. Special hazards 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 relea	ase measures
6.1. Personal precautions, prote	ctive 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 co	ntainment 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 for further information.
SECTION 7: Handling and st	torage
7.1. Precautions for safe handling	g
	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 contr	ols/personal protection
8.1. Control parameters	
	exposure limits: total Crystalline Silica (cristobalite plus quartz) - 0.025 mg/m3 TWA ACGIH TLV (respirable fraction); 50 ug/m3 8-hr TWA PEL (respirable fraction).
	exposure limits: total Crystalline Silica (quartz plus cristobalite) - 0.025 mg/m3 TWA ACGIH TLV (respirable fraction); 50 ug/m3 8 hr -TWA PEL (respirable fraction).
8.1.1. Exposure Limit Values	

Revision 0 Revision date 2024-05-09

# 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



# SECTION 9: Physical and chemical properties

# 9.1. Information on basic physical and chemical properties

Appearance	Powder
	Off white
Odour	
	Not applicable.
Partition coefficient	
Autoignition temperature	
-	Not applicable.
Oxidising properties	
	6 - 8
•	Not applicable.
	Not applicable.
Initial boiling point	
-	Not applicable.
Evaporation rate	
Flammability (solid, gas)	
Vapour pressure	
Relative Vapour Density	
Density / Relative Density	2.2 - 2.7 (H2O = 1 @ 20 °C)
Solubility	Slightly soluble in water

Revision 0 Revision date 2024-05-09

#### 9.2. Other information

Conductivity
Surface tension
Gas group
Benzene Content
Lead content
VOC (Volatile organic

Not applicable.
Not applicable.
No data available
Not applicable.

# SECTION 10: Stability and reactivity

compounds)

### 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 hazard classes

Acute toxicity Based on available data, the classification criteria are not met.

Prolonged or repeated exposure may cause irritation to skin and mucous membranes.

Serious eye damage/irritation No irritation expected.

Respiratory or skin sensitisation

No sensitizaton effects reported.

Germ cell mutagenicity

Skin corrosion/irritation

Carcinogenicity

No mutagenic effects reported.

Reproductive toxicity

Known Human Carcinogens (Category 1).

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

Revision 0 Revision date 2024-05-09

11.1 Information on hazard class	ses
	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 exposure	Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system.
11.1.4. Toxicological Information	1
Vigorvest	Oral Mouse LD50: >5000 mg/kg
SECTION 12: Ecological info	ormation
12.1. Toxicity	
Vigorvest	Fish LC50/96h: 10000.000 mg/l
12.2. Persistence and degradab	ility
12.2. 1 Cisistence and degradab	No data is available on this product.
12.3. Bioaccumulative potential	The data is dramasic off this product.
<u> </u>	
	Does not bioaccumulate.
Partition coefficient	
	Vigorvest Not applicable.
12.4. Mobility in soil	
	Not determined.
12.5. Results of PBT and vPvB	assessment
	Not determined.
12.7 Other adverse effects	·
	Not applicable.
SECTION 13: Disposal cons	iderations
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

Revision 0 Revision date 2024-05-09

### 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	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

## Regulations

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.

#### SARA TITLE III:

Hazard Category For Section 311/312: Chronic health

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

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)

Revision 0 Revision date 2024-05-09

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

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

# Text of Hazard Statements in Section 3

Carc. 1A: H350 - May cause cancer.

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.