

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 05/28/2021 Supersedes: 02/13/2019 Issue date: 05/28/2021

## **SECTION 1: Identification**

Identification

Product form Mixture Product name R 60 DV CAS-No. Mixture 3197 Product code

Other means of identification Alumina-Silicate Dry Vibratable

Recommended use and restrictions on use 1.2.

Use of the substance/mixture : Refractory Recommended use : Industrial use

**Supplier** 

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## SECTION 2: Hazard(s) identification

### Classification of the substance or mixture

**GHS US classification** 

Skin corrosion/irritation Category 2 H315 Causes skin irritation Serious eye damage/eye irritation Category 2B H320 Causes eye irritation

Carcinogenicity Category 1A H350 May cause cancer (Inhalation)

Full text of H statements: see section 16

#### 2.2. GHS Label elements, including precautionary statements

**GHS US labeling** 

Hazard pictograms (GHS US)





Signal word (GHS US) : Danger

Hazard statements (GHS US) H315 - Causes skin irritation H320 - Causes eye irritation H350 - May cause cancer (Inhalation)

: P280 - Wear eye protection, protective gloves. Precautionary statements (GHS US)

P332+P313 - If skin irritation occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention.

P260 - Do not breathe dust.

#### Other hazards which do not result in classification

Other hazards not contributing to the

classification

This product contains a dust suppression admixture, that may give off smoke or fumes during initial heat up. These fumes include carbon monoxide, carbon dioxide, and hydrocarbons.

Adequate ventilation and appropriate respiratory protection may be required.

#### 2.4. **Unknown acute toxicity (GHS US)**

Not applicable

## **SECTION 3: Composition/Information on ingredients**

Not applicable

#### **Mixtures**

Name	Product identifier	%	GHS US classification
quartz	(CAS-No.) 14808-60-7	0.1 – 0.5	Carc. 1A, H350
cristobalite	(CAS-No.) 14464-46-1	0.1 – 0.5	Carc. 1A, H350

Full text of hazard classes and H-statements : see section 16

## **SECTION 4: First-aid measures**

#### **Description of first aid measures**

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical

advice (show the label where possible).

First-aid measures after inhalation Allow affected person to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact Gently wash with plenty of soap and water.

First-aid measures after eye contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

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First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

I.2. Most important symptoms and effects (acute and delayed)

Potential Adverse human health effects and

symptoms

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

Symptoms/effects after inhalation : May cause cancer by inhalation. Danger of serious damage to health by prolonged exposure

through inhalation.

Causes skin irritation.

Symptoms/effects after skin contact : Causes skin irritation.
Symptoms/effects after eye contact : Causes eye irritation.

3. Immediate medical attention and special treatment, if necessary

No additional information available

## **SECTION 5: Fire-fighting measures**

#### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media : In case of fire, all extinguishing media allowed.

5.2. Specific hazards arising from the chemical

Fire hazard : Not flammable.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : No specific fire-fighting instructions required.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Other information : This product contains a dust suppression admixture, that may give off smoke or fumes during

initial heat up. These fumes include carbon monoxide, carbon dioxide, and hydrocarbons. Adequate ventilation and appropriate respiratory protection may be required.

## **SECTION 6: Accidental release measures**

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

### 6.1.1. For non-emergency personnel

Emergency procedures : Do not breathe dust.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

No additional information available

#### 6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : On land, sweep or shovel into suitable containers. Minimize generation of dust.

6.4. Reference to other sections

# See Heading 8. Exposure controls and personal protection. SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Avoid raising dust.

Avoid contact with skin and eyes. Do not breathe dust.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a dry place.

## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

R 60 DV (Mixture)		
No additional information available		
cristobalite (14464-46-1)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH TWA (mg/m³)	0.025 mg/m³ respirable dust	
USA - OSHA - Occupational Exposure Limits		
OSHA PEL (TWA) (mg/m³)	0.05 mg/m³ respirable dust	
quartz (14808-60-7)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH TWA (mg/m³)	0.025 mg/m³ (Silica-Crystalline Quartz; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Respirable fraction)	
USA - OSHA - Occupational Exposure Limits		
Local name	Silica, crystalline quartz, respirable dust	
OSHA PEL (TWA) (mg/m³)	0.05 mg/m³ respirable dust	
Remark (OSHA)	(3) See Table Z-3.	

8.2. Appropriate engineering controls

Appropriate engineering controls : Provide adequate ventilation to minimize dust concentrations.

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#### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear protective gloves.

Eye protection:

Chemical goggles or safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Wear appropriate mask

Other information:

Do not eat, drink or smoke during use.

### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Granular mixture.

Color : Gray
Odor : odorless

Odor threshold : Not applicable

pH : No data available

Melting point : > 3000 °F Freezing point Not applicable Boiling point : Not applicable Critical temperature Not applicable Not applicable Critical pressure Flash point Not applicable Relative evaporation rate (butyl acetate=1) : Not applicable Relative evaporation rate (ether=1) Not applicable Non flammable. Flammability (solid, gas) Vapor pressure Not Applicable Vapor pressure at 50 °C Not Applicable

Relative vapor density at 20 °C  $\phantom{0}$ : No data available Relative density  $\phantom{0}$ :  $\approx 2.3$ 

Solubility : Slightly soluble.

Partition coefficient n-octanol/water (Log Pow) : No data available

Auto-ignition temperature : Not applicable

Decomposition temperature : No data available

Viscosity, kinematic : No data available

Viscosity, dynamic : Not Applicable

Explosion limits : Not applicable

Explosion limits : Not applicable

Explosive properties : No data available

Oxidizing properties : No data available

**9.2.** Other information

No additional information available

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

None known.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Avoid dust formation.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

## **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

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Not classified Acute toxicity (oral) Acute toxicity (dermal) Not classified Acute toxicity (inhalation) Not classified Skin corrosion/irritation Causes skin irritation. Serious eye damage/irritation Causes eye irritation. Respiratory or skin sensitization Not classified Germ cell mutagenicity Not classified Carcinogenicity May cause cancer (Inhalation). quartz (14808-60-7) 1 - Carcinogenic to humans IARC group Reproductive toxicity Not classified STOT-single exposure Not classified STOT-repeated exposure Not classified Not classified Aspiration hazard Viscosity, kinematic No data available Likely routes of exposure Inhalation. Potential Adverse human health effects and Based on available data, the classification criteria are not met. symptoms Symptoms/effects after inhalation : May cause cancer by inhalation. Danger of serious damage to health by prolonged exposure through inhalation. Causes skin irritation. Symptoms/effects after skin contact

Causes eye irritation.

## **SECTION 12: Ecological information**

#### 12.1. Toxicity

No additional information available

Symptoms/effects after eye contact

## 12.2. Persistence and degradability

R 60 DV (Mixture)			
Persistence and degradability	Not established.		
cristobalite (14464-46-1)			
Persistence and degradability	Mineral. Not applicable.		
Chemical oxygen demand (COD)	Not applicable		
ThOD	Not applicable		
BOD (% of ThOD)	Not applicable		
quartz (14808-60-7)			
Persistence and degradability	Not applicable.		
Biochemical oxygen demand (BOD)	Not applicable		
Chemical oxygen demand (COD)	Not applicable		
ThOD	Not applicable		

#### 12.3. Bioaccumulative potential

R 60 DV (Mixture)		
Bioaccumulative potential	Not established.	
cristobalite (14464-46-1)		
Bioaccumulative potential No data available.		
quartz (14808-60-7)		
Bioaccumulative potential No data available.		

## 12.4. Mobility in soil

cristobalite (14464-46-1)		
Ecology - soil	No data available.	

### 12.5. Other adverse effects

Effect on the global warming
Other information

None known

No other effects known.

## **SECTION 13: Disposal considerations**

## 13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

# **SECTION 14: Transport information**

Department of Transportation (DOT)

In accordance with DOT

Not regulated

**Transportation of Dangerous Goods** 

Not regulated

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## Transport by sea

Not regulated

Air transport

Not regulated

## **SECTION 15: Regulatory information**

## 15.1. US Federal regulations

## R 60 DV (Mixture)

All components of this product are listed as Active, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

#### 15.2. International regulations

### **CANADA**

## cristobalite (14464-46-1)

Listed on the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

No additional information available

**National regulations** 

#### quartz (14808-60-7)

Listed on IARC (International Agency for Research on Cancer)

#### 15.3. US State regulations

cristobalite (14464-46-1)

R 60 DV (Mixture)	
U.S California - Proposition 65 - Other	This product contains crystalline silica, a chemical known to the state of California to
information	cause cancer. For more information go to WWW.P65Warnings.ca.gov

U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Yes	No	No	No		
quartz (14808-6	0-7)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Yes	No	No	No		

Component	State or local regulations
Cristobalite (14464-46-1)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
Quartz (14808-60-7)	U.S New Jersey - Right to Know Hazardous Substance List

#### **SECTION 16: Other information**

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Revision date : 05/28/2021

Other information : Report language name. English. In the event of any conflict between English and other

language versions, the English version shall prevail.

#### Full text of H-phrases:

H315	Causes skin irritation
H320	Causes eye irritation
H350	May cause cancer

SDS US (GHS HazCom 2012)

This information and recommendations set forth herein are taken from sources believed to be accurate as of the date herein, however, Resco Products, Inc. makes no warranty with respect to the accuracy of the information or the suitability of the recommendations, and assumes no liability to any user thereof.

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