

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 3/15/2015 Revision date: 9/19/2024 Supersedes: 10/4/2021

## **SECTION 1: Identification**

#### 1.1. Identification

Product form : Mixture
Product name : R-Max G QT
CAS-No. : Mixture
Product code : 1621

Other means of identification : Alumina-Silicate Cement Bonded Castable

#### 1.2. Recommended use and restrictions on use

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

#### 1.3. Supplier

Resco Products, Inc.
One Robinson Plaza, Suite 300
6600 Steubenville Pike
Pittsburgh, PA, 15205
United States
T 412-494-4491

SDS@RescoProducts.com - WWW.RescoProducts.com

#### 1.4. Emergency telephone number

Emergency number : EMERGENCY ONLY (CHEMTREC) USA & Canada 1-800-424-9300

Outside USA & Canada +1 703-741-5970

## SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

#### **GHS US classification**

Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2B

Carcinogenicity Category 1A

H315

Causes skin irritation

Causes eye irritation

Causes eye irritation

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)

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

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. 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.

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

No additional information available

## 2.4. Unknown acute toxicity (GHS US)

No additional information available

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

## 3.1. Substances

Not applicable

# 3.2. Mixtures

Name	Product identifier	%	GHS US classification
aluminium oxide, non-fibrous	CAS-No.: 1344-28-1	50 – 75	Not classified
Calcium Aluminate Cement	CAS-No.: 65997-16-2	1 – 5	Skin Irrit. 2, H315
			Eye Irrit. 2B, H320
quartz	CAS-No.: 14808-60-7	1 – 5	Carc. 1A, H350
cristobalite	CAS-No.: 14464-46-1	0.1 – 0.5	Carc. 1A, H350

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

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

#### 4.1. 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.

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

#### 4.2. Most important symptoms and effects (acute and delayed)

Potential Adverse human health effects and : Danger of serious damage to health by prolonged exposure through inhalation.

symptoms

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

cancer by inhalation.

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

### 4.3. 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 : Fight fire with normal precautions from a reasonable distance. Prevent fire-fighting water from

entering environment.

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

#### **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. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area. On land, sweep or shovel into suitable containers.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

# 6.3. Methods and material for containment and cleaning up

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 eves. 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 this product in a dry location where it can be protected from the elements.

Incompatible products : Strong bases. Strong acids.

## **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

### R-Max G QT (Mixture)

No additional information available

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Calcium Aluminate Cement (65997-16-2)	
No additional information available	
cristobalite (14464-46-1)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	0.025 mg/m³ respirable dust
USA - OSHA - Occupational Exposure Limits	
OSHA PEL (TWA) [1]	0.05 mg/m³ respirable dust
aluminium oxide, non-fibrous (1344-28-1)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	1 mg/m³ respirable dust
quartz (14808-60-7)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	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) [1]	0.05 mg/m³ respirable dust
Remark (OSHA)	(3) See Table Z-3.
9.2 Appropriate engineering controls	

#### 8.2. Appropriate engineering controls

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

## 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 Light gray Odor earthy Odor threshold No data available

pН ≈ 10.5

pH solution concentration 10 % Melting point > 2000 °F Freezing point No data available Boiling point No data available Flash point No data available Relative evaporation rate (butyl acetate=1) No data available Flammability (solid, gas) Not flammable. Vapor pressure No data available Relative vapor density at 20°C No data available

Relative density ≈ 2.4 Solubility Slightly soluble. Partition coefficient n-octanol/water (Log Pow) No data available No data available Auto-ignition temperature Decomposition temperature No data available Viscosity, kinematic Not Applicable Viscosity, dynamic No data available **Explosion limits** No data available Explosive properties No data available

# 9.2. Other information

Oxidizing properties

No additional information available

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No data available

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SECTION 10: Stability and reactivity 10.1. Reactivity Hydraulis stability 10.2. Chemical stability Stable under normal conditions of use. 10.3. Possibility of hazardous reactions Not established. 10.4. Conditions to avoid Avoid dust formation. 10.5. Incompatible materials Strong acids. Strong bases. 10.6. Hazardous decomposition products No additional information available SECTION 11: Toxicological information 11.1. Information on toxicological effects Acute toxicity (eleman) : Not classified Acute toxicity : Not classified Acute	additing to 1 odd at 10glotor 7 vol. 11, 110. 00 7 Moriday, Mar	0.1.2, 20.2, 1.4.00 a.a. 1.0ga.a.o.o
Hydrauic setting.  10.2. Chemical stability  Stable under normal conditions of use.  10.3. Possibility of hazardous reactions  Not estabilished.  10.4. Conditions to avoid  Avoid dust formation.  10.5. Incompatible materials  Strong adds: Strong bases.  10.6. Hazardous decomposition products  No additional information products  No additional information no toxicological information  11.1. Information on toxicological effects  Acute toxicity (real)  Acute toxicity (real)  Acute toxicity (real)  I. Not classified  I. Not classifi	SECTION 10: Stability and reactivity	
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No additional information available  SECTION 11: Toxicological information  11.1. Information on toxicological effects  Acute toxicity (form) : Not classified Acute toxicity (dermal) : Not classified Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Not classified Acute toxicity (inhalation - Rat  LDS0 oral rat  Experimental value, Oral, 14 day(s))  LCS0 Inhalation - Rat  Skin corrosion/irritation : Causes skin irritation. pht: + 10.5  Calcium Aluminate Cement (65997-16-2) pH		
Not additional information available   SECTION 11: Toxicological information   11.1 information on toxicological effects		
SECTION 11: Toxicological information		
1.1. Information on toxicological effects	No additional information available	
Acute toxicity (pramal)	SECTION 11: Toxicological information	
Acute toxicity (termal) Acute toxicity (inhalation)  Acute toxicity (inhalation)  Acute toxicity (inhalation)  ID50 oral rat  ID50 oral rat I	_	
Acute toxicity (inhalation)   Store classified		
LDSO oral rat		
D500 rol rat     > 15900 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Cral. 14 day(s))		: Not ciassified
Experimental value, Oral, 14 day(s)    Calcium Aluminate Cement (65997-16-2)     PH		45000 mg/kg hody weight (Equivelent or similar to OEOD 404, Det Male (Course)
Skin corrosion/irritation   Skin irritation   S	LUOU Orai rat	
Inhalation (aerosol), 14 day(s))   Skin corrosion/irritation   Causes skin irritation   pH: ≈ 10.5     DH	LC50 Inhalation - Rat	
PH		
Calcium Aluminate Cement (65997-16-2)       ≤ 13         cristobalite (14464-46-1)         5   13         pH         6 - 7         aluminium oxide, non-fibrous (1344-28-1)         9 - 10.5 (aqueous suspension, 33 %)         quartz (14808-60-7)         6 - 7         DH         6 - 7         Serious eye damage/irritation       : Causes eye irritation.         pH: = 10.5         6 - 7         Calcium Aluminate Cement (65997-16-2)         9 - 10.5         pH         6 - 7         aluminium oxide, non-fibrous (1344-28-1)         9 - 10.5 (aqueous suspension, 33 %)         quartz (14808-60-7)         9 - 10.5 (aqueous suspension, 33 %)         quartz (14808-60-7)         Not classified         Germ cell mutagenicity       : Not classified         Carcinogenicity       : May cause cancer (Inhalation).         quartz (14808-60-7)         1 - Carcinogenic to humans         Reproductive toxicity       : Not classified         STOT-single exposure       : Not classified         STOT-repeated exposure       : Not classified         STOT-repeated exposure       : Not classified         Viscosity, kinematic       : Not dassified         Viscosity, kinematic       : Not applicable (solid)         Votential Adverse human health effects and<	Skin corrosion/irritation	: Causes skin irritation.
Seristobalite (14464-46-1)     PH		pH: ≈ 10.5
cristobalite (14464-46-1) pH   6 - 7  aluminium oxide, non-fibrous (1344-28-1) pH   9 - 10.5 (aqueous suspension, 33 %)  quartz (14808-60-7) pH   6 - 7  Serious eye damage/irritation   Causes eye irritation. pH: ≈ 10.5  Calcium Aluminate Cement (65997-16-2) pH   ≤ 13  cristobalite (14464-46-1) pH   6 - 7  aluminium oxide, non-fibrous (1344-28-1) pH   9 - 10.5 (aqueous suspension, 33 %)  quartz (14808-60-7) pH   9 - 10.5 (aqueous suspension, 33 %)  quartz (14808-60-7) pH   6 - 7  Respiratory or skin sensitization   Not classified Gern cell mutagenicity   Not classified STOT-single exposure   Not classified STOT-single exposure   Not classified STOT-repeated exposure   Not classified STOT-repeated exposure   Not classified Aspiration hazard   Not classified STOT-repeated exposure   Not classified STOT-single exposure   Not pplicable (solid) Potential Adverse human health effects and   Not applicable (solid)		
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pH   9 − 10.5 (aqueous suspension, 33 %)  quartz (14808-60-7) pH   6 − 7  Serious eye damage/irritation : Causes eye irritation. pH: ≈ 10.5  Calcium Aluminate Cement (65997-16-2) pH   ≤ 13  cristobalite (14464-46-1) pH   6 − 7  aluminium oxide, non-fibrous (1344-28-1) pH   9 − 10.5 (aqueous suspension, 33 %)  quartz (14808-60-7) pH   6 − 7  Respiratory or skin sensitization : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : May cause cancer (Inhalation).  quartz (14808-60-7) IARC group   1 − Carcinogenic to humans Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not classified STOT-repeated exposure : Not classified STOT-repeated exposure : Not classified Viscosity, kinematic : Not Applicable aluminium oxide, non-fibrous (1344-28-1) Viscosity, kinematic : Not applicable (solid) Potential Adverse human health effects and : Danger of serious damage to health by prolonged exposure through inhalation.		6 – 7
Quartz (14808-60-7)   pH	aluminium oxide, non-fibrous (1344-28-1)	
pH   6 - 7   Serious eye damage/irritation   Education   Calcium Aluminate Cement (65997-16-2)   February   F		9 – 10.5 (aqueous suspension, 33 %)
Serious eye damage/irritation : Causes eye irritation. pH: ≈ 10.5    Calcium Aluminate Cement (65997-16-2)     pH		
pH: ≈ 10.5  Calcium Aluminate Cement (65997-16-2) pH	-	
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quartz (14808-60-7)         pH       6 – 7         Respiratory or skin sensitization       : Not classified         Germ cell mutagenicity       : Not classified         Carcinogenicity       : May cause cancer (Inhalation).         quartz (14808-60-7)         IARC group       1 - Carcinogenic to humans         Reproductive toxicity       : Not classified         STOT-single exposure       : Not classified         STOT-repeated exposure       : Not classified         Aspiration hazard       : Not classified         Viscosity, kinematic       : Not Applicable         aluminium oxide, non-fibrous (1344-28-1)       Not applicable (solid)         Potential Adverse human health effects and       : Danger of serious damage to health by prolonged exposure through inhalation.		0.405(
PH 6 - 7  Respiratory or skin sensitization : Not classified  Germ cell mutagenicity : Not classified  Carcinogenicity : May cause cancer (Inhalation).  quartz (14808-60-7)  IARC group		9 – 10.5 (aqueous suspension, 33 %)
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Germ cell mutagenicity : Not classified Carcinogenicity : May cause cancer (Inhalation).    Quartz (14808-60-7)     IARC group   1 - Carcinogenic to humans   Reproductive toxicity   Not classified     STOT-single exposure   Not classified     STOT-repeated exposure   Not classified     STOT-repeated exposure   Not classified     Aspiration hazard   Not classified     Viscosity, kinematic   Not Applicable     Applicable     Interval   Interval   Interval     Interval		
Carcinogenicity : May cause cancer (Inhalation).    Quartz (14808-60-7)		
quartz (14808-60-7)         IARC group       1 - Carcinogenic to humans         Reproductive toxicity       : Not classified         STOT-single exposure       : Not classified         STOT-repeated exposure       : Not classified         Aspiration hazard       : Not classified         Viscosity, kinematic       : Not Applicable         aluminium oxide, non-fibrous (1344-28-1)         Viscosity, kinematic       Not applicable (solid)         Potential Adverse human health effects and       : Danger of serious damage to health by prolonged exposure through inhalation.		
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aluminium oxide, non-fibrous (1344-28-1)       Viscosity, kinematic     Not applicable (solid)       Potential Adverse human health effects and     : Danger of serious damage to health by prolonged exposure through inhalation.		
Viscosity, kinematicNot applicable (solid)Potential Adverse human health effects and: Danger of serious damage to health by prolonged exposure through inhalation.		
Potential Adverse human health effects and : Danger of serious damage to health by prolonged exposure through inhalation.		Not applicable (solid)
	-	
	symptoms	

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Symptoms/effects after inhalation	: Danger of serious damage to health by prolonged exposure through inhalation. May cause cancer by inhalation.
Symptoms/effects after skin contact Symptoms/effects after eye contact	: Causes skin irritation. : Causes eye irritation.
SECTION 12: Ecological information	
12.1. Toxicity	
aluminium oxide, non-fibrous (1344-28-1)	
LC50 - Fish [1]	> 100 mg/l (96 h, Salmo trutta, Literature study)
EC50 - Crustacea [1]	> 100 mg/l (48 h, Daphnia magna, Literature study)
12.2. Persistence and degradability	
R-Max G QT (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
aluminium oxide, non-fibrous (1344-28-1)	
Persistence and degradability	Not applicable.
Chemical oxygen demand (COD)	Not applicable
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-Max G QT (Mixture)	
Bioaccumulative potential	Not established.
cristobalite (14464-46-1)	
Bioaccumulative potential	No data available.
aluminium oxide, non-fibrous (1344-28-1)	
Bioaccumulative potential	No data available.
quartz (14808-60-7)	1
Bioaccumulative potential	No data available.
12.4. Mobility in soil	
cristobalite (14464-46-1)	
Ecology - soil	No data available.
aluminium oxide, non-fibrous (1344-28-1)	
Surface tension	No data available in the literature
Ecology - soil	No data available.
12.5. Other adverse effects	
Effect on the global warming	: None known
SECTION 13: Disposal considerations	
13.1. Disposal methods	
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
SECTION 14: Transport information	
In accordance with DOT / TDG / IMDG / IATA	

Department of Transportation (DOT)
In accordance with DOT

Not regulated

Transportation of Dangerous Goods Not regulated

Transport by sea
Not regulated

Air transport

Not regulated

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# Safety Data Sheet

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## **SECTION 15: Regulatory information**

### 15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

#### aluminium oxide, non-fibrous (1344-28-1)

Not subject to reporting requirements of the United States SARA Section 313

Note: The section 313 chemical list contains "CAS # 1344-28-1 Aluminum Oxide (Fibrous forms)"; the Aluminum oxide contained in this product is non-fibrous, and thus is not a section 313 material. Only manufacturing, processing, or otherwise use of aluminum oxide in the fibrous form triggers reporting.

## 15.2. International regulations

#### **CANADA**

### Calcium Aluminate Cement (65997-16-2)

Listed on the Canadian DSL (Domestic Substances List)

#### cristobalite (14464-46-1)

Listed on the Canadian DSL (Domestic Substances List)

#### aluminium oxide, non-fibrous (1344-28-1)

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

#### R-Max G QT (Mixture)

U.S. - California - Proposition 65 - Other information

This product contains crystalline silica, a chemical known to the state of California to cause cancer. For more information go to WWW.P65Warnings.ca.gov

#### cristobalite (14464-46-1)

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

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

quartz (14000 00 1)					
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk	Maximum allowable
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	level (NSRL)	dose level (MADL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity	Reproductive Toxicity		
		- Female	- Male		
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
aluminium oxide, non-fibrous (1344-28-1)	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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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-phra	Full text of H-phrases		
H315	Causes skin irritation		
H320	Causes eye irritation		
H350	May cause cancer		

Safety Data Sheet (SDS), USA

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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