

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: 6/17/2024 Supersedes: 5/17/2021

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : Quikturn 32-70PC

CAS-No. : Mixture Product code : 1646

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)

Carcinogenicity Category 1A
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	20 – 50	Not classified
Calcium Aluminate Cement	CAS-No.: 65997-16-2	5 – 10	Skin Irrit. 2, H315
			Eye Irrit. 2B, H320
cristobalite	CAS-No.: 14464-46-1	0.1 - 0.5	Carc. 1A, H350

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

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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.Causes skin irritation.Causes eye irritation.

4.3. Immediate medical attention and special treatment, if necessary

No additional information available

Symptoms/effects after skin contact

Symptoms/effects after eye contact

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 respondersProtective 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 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 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

Quikturn 32-70PC (Mixture)

No additional information available

Calcium Aluminate Cement (65997-16-2)

No additional information available

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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
8.2. Appropriate engineering controls	

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

≈ 10.5

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

pH solution concentration 10 % > 3000 °F Melting point Freezing point No data available No data available Boiling point 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 : ≈ 2.6

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

Hydraulic setting.

10.2. Chemical stability

Stable under normal conditions of use.

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Symptoms/effects after eye contact

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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 (oral) :	Not classified			
Acute toxicity (dermal) :	Not classified			
Acute toxicity (inhalation)	Not classified			
aluminium oxide, non-fibrous (1344-28-1)				
LD50 oral rat	> 15900 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))			
LC50 Inhalation - Rat	> 2.3 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation (aerosol), 14 day(s))			
Skin corrosion/irritation :	Causes skin irritation. pH: ≈ 10.5			
Calcium Aluminate Cement (65997-16-2)	pri. ~ 10.5			
pH	≤ 13			
cristobalite (14464-46-1)				
pH	6 – 7			
	0-7			
aluminium oxide, non-fibrous (1344-28-1)				
рН	9 – 10.5 (aqueous suspension, 33 %)			
Serious eye damage/irritation :	Causes eye irritation. pH: ≈ 10.5			
Calcium Aluminate Cement (65997-16-2)				
рН	≤ 13			
cristobalite (14464-46-1)				
рН	6 – 7			
aluminium oxide, non-fibrous (1344-28-1)				
рН	9 – 10.5 (aqueous suspension, 33 %)			
• •	Not classified			
Germ cell mutagenicity :	Not classified			
Carcinogenicity :	May cause cancer (Inhalation).			
Reproductive toxicity :	Not classified			
STOT-single exposure : STOT-repeated exposure :	Not classified Not classified			
Aspiration hazard :	Not classified Not classified			
	Not Applicable			
aluminium oxide, non-fibrous (1344-28-1)				
Viscosity, kinematic	Not applicable (solid)			
Potential Adverse human health effects and symptoms	Danger of serious damage to health by prolonged exposure through inhalation.			
Symptoms/effects after inhalation :	Danger of serious damage to health by prolonged exposure through inhalation. May cause			
Symptoms/effects after skin contact :	cancer by inhalation. Causes skin irritation.			
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: Causes eye irritation.

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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			
Quikturn 32-70PC (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		
12.3. Bioaccumulative potential			
Quikturn 32-70PC (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.		
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			
	None known		
SECTION 13: Disposal considerations			
13.1. Disposal methods			
	Dispose in a safe manner in accordance with local/national regulations		
Product/Packaging disposal recommendations :	Dispose in a safe manner in accordance with local/national regulations. Avoid release to the environment.		

In accordance with DOT / TDG / IMDG / IATA

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

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

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

No additional information available

15.3. US State regulations

Quikturn 32-70PC (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

cricto	halita	11116	1-16-1\
ICHSIO	Dante	11440	4-40-1

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

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.

	versions, the English version shall provail.		
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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