

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 9/21/2022 Revision date: 9/21/2022 Supersedes: 2/17/2020

SECTION 1: Identification					
1.1. Identification					
Product form Product name CAS-No. Product code Other means of identification	: Mixture : FurnaCubed 40 : Mixture : 0874 : Alumina-Silicate C	: FurnaCubed 40 : Mixture			
1.2. Recommended use and restrictions of					
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 412-494-4491 <u>SDS@RescoProducts.com</u> - <u>WWW.RescoProducts</u> 1.4. Emergency telephone number	s.com				
Emergency number		ILY (CHEMTREC) USA & anada +1 703-741-5970	Canada 1-800-	424-9300	
SECTION 2: Hazard(s) identification					
2.1. Classification of the substance or mix	ture				
GHS US classification Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2B Carcinogenicity Category 1A Full text of H statements : see section 16	H	B15Causes skinB20Causes eyeB50May cause		on)	
2.2. GHS Label elements, including precau	itionary statements				
GHS US labeling Hazard pictograms (GHS US) Signal word (GHS US) Hazard statements (GHS US) Precautionary statements (GHS US)	: P280 - Wear eye p	e irritation cancer (Inhalation) protection, Dust respirator		es. er for several minutes. Remove	
	P332+P313 - If ski P337+P313 - If ey	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 o	lassification				
No additional information available					
2.4. Unknown acute toxicity (GHS US)					
Not applicable					
SECTION 3: Composition/Information	on ingredients				
3.1. Substances					
Not applicable					
3.2. Mixtures					
Name		Product identifier	%	GHS US classification	
cristobalite		CAS-No.: 14464-46-1	10 - 20	Carc. 1A, H350	
Calcium Aluminate Cement		CAS-No.: 65997-16-2	10 – 20	Skin Irrit. 2, H315 Eye Irrit. 2B, H320	
calcium fluoride Full text of hazard classes and H-statements : see	section 16	CAS-No.: 7789-75-5	1 – 5	Not classified	

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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	: Wash with plenty of soap and water. Wash contaminated clothing before reuse.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present
First-aid measures after ingestion	and easy to do. Continue rinsing. : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
4.2. Most important symptoms and effects	
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
Symptoms/effects after skin contact	through inhalation. : Causes skin irritation.
Symptoms/effects after eye contact	: Causes eye irritation.
4.3. Immediate medical attention and specia	•
No additional information available	
SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguishing	u 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 chem	lical
Fire hazard	: Not flammable.
5.3. Special protective equipment and prec	autions for fire-fighters
Firefighting instructions	: Fight fire with normal precautions from a reasonable distance.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release measur	res
6.1. Personal precautions, protective equip	ment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures 6.1.2. For emergency responders	: Do not breathe dust.
Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.
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 prot	ection.
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	
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/person	al protection
8.1. Control parameters	
FurnaCubed 40 (Mixture)	
No additional information available	

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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/m ³ respirable dust
USA - OSHA - Occupational Exposure Limits	
OSHA PEL (TWA) [1]	0.05 mg/m ³ respirable dust
calcium fluoride (7789-75-5)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	2.5 mg/m ³
8.2. Appropriate engineering controls	
Appropriate engineering controls	: Provide adequate ventilation to minimize dust concentrations.
8.3. Individual protection measures/Pers	onal 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 p	roperties
9.1. Information on basic physical and ch	· · · · · · · · · · · · · · · · · · ·
Physical state	: Solid
Appearance	: Granular mixture.
Color	: dark gray
Odor	: earthy
Odor threshold	: No data available
рН	: No data available
Melting point	: >2000 °F
Freezing point	: Not applicable
Boiling point	Not applicable
Critical temperature	: Not applicable
Flash point	: Not applicable
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Polative vapor density at 20 °C	· No data available

Relative vapor density at 20 °C

Auto-ignition temperature

Viscosity, kinematic

Explosive properties

Oxidizing properties

Viscosity, dynamic

Explosion limits

Decomposition temperature

Partition coefficient n-octanol/water (Log Pow)

Relative density

Solubility

: No data available

:

:

·

:

:

:

No data available

No data available

No data available

Slightly soluble.

Not applicable

Not Applicable

: No data available

: No data available

No data available

No data available

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

0.2 Other information	
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.	
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	
	Not classified
Acute toxicity (dermal) :	Not classified
, ,	Not classified
calcium fluoride (7789-75-5)	
LD50 oral rat	> 2000 mg/kg body weight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral, 14 day(s))
LD50 dermal rat	> 2000 mg/kg body weight (EPA OPP 81-2, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))
LC50 Inhalation - Rat	> 5.07 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (dust), 14 day(s))
Skin corrosion/irritation :	Causes skin irritation.
Calcium Aluminate Cement (65997-16-2)	
рН	≤ 13
cristobalite (14464-46-1)	1
pH	6 – 7
calcium fluoride (7789-75-5)	<u>1 </u>
pH	No data available in the literature
	Causes eye irritation.
Calcium Aluminate Cement (65997-16-2)	
рН	≤ 13
cristobalite (14464-46-1)	
рН	6 - 7
calcium fluoride (7789-75-5)	•
рН	No data available in the literature
Respiratory or skin sensitization :	Not classified
Germ cell mutagenicity :	Not classified
	May cause cancer (Inhalation).
	Not classified
STOT-single exposure :	Not classified
· · ·	Not classified
Aspiration hazard :	Not classified
Viscosity, kinematic :	Not Applicable

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Vicessity kinematia	Net applicable (calid)
Viscosity, kinematic Potential Adverse human health effects and	Not applicable (solid) : 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.
Symptoms/effects after skin contact Symptoms/effects after eye contact	: Causes skin irritation.
SECTION 12: Ecological information	: Causes eye irritation.
12.1. Toxicity	
calcium fluoride (7789-75-5)	
LC50 - Fish [1]	107.5 ppm (EPA 600/3-75/009, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Read
	across, Lethal)
12.2. Persistence and degradability	
FurnaCubed 40 (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
calcium fluoride (7789-75-5)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)
12.3. Bioaccumulative potential	
FurnaCubed 40 (Mixture)	
Bioaccumulative potential	Not established.
cristobalite (14464-46-1)	
Bioaccumulative potential	No data available.
calcium fluoride (7789-75-5)	
BCF - Fish [1]	0 – 6.4 l/kg (OECD 305: Bioconcentration: Flow-Through Fish Test, 4 week(s), Cyprinus carpic Fresh water, Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
12.4. Mobility in soil	
cristobalite (14464-46-1)	
Ecology - soil	No data available.
calcium fluoride (7789-75-5)	
Surface tension	No data available in the literature
Ecology - soil	No (test) data on mobility of the substance available.
12.5. Other adverse effects	
Effect on the global warming	: None known : No other effects known.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

		.,				
SECTION 13: Dispo	sal considerations					
13.1. Disposal method	ds					
Product/Packaging dispos Ecology - waste materials	al recommendations :	 Dispose in a safe manner in accordance with local/national regulations. Avoid release to the environment. 				
SECTION 14: Trans	port information					
In accordance with DOT / Department of Transpo Not regulated Transportation of Dang Not regulated Transport by sea Not regulated Air transport Not regulated	TDG / IMDG / IATA rtation (DOT)					
SECTION 15: Regul	atory information					
15.1. US Federal regu	lations					
	oduct are present and listed a	as Active on the United St	tates Environmental Prot	ection Agency Toxic S	Substances Control Act	
15.2. International reg	Julations					
CANADA						
Calcium Aluminate C						
Listed on the Canadian D	SL (Domestic Substances Li	st)				
cristobalite (14464-46						
	SL (Domestic Substances Li	st)				
calcium fluoride (778						
Listed on the Canadian D	SL (Domestic Substances Li	st)				
EU-Regulations No additional information a						
National regulations	available					
No additional information a	available					
15.3. US State regulat						
FurnaCubed 40 (Mixt						
	ition 65 - Other information	This product contains of	crystalline silica, a chemi	cal known to the state	of California to causo	
0.3 California - Fropos			mation go to WWW.P65		or California to cause	
cristobalite (14464-46	5-1)			rrannige.ed.ger		
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 regul	ations			
Cristobalite (14464-46-1)			Right To Know List; U.S	S New Jersey - Right	to Know Hazardous	
			Pennsylvania - RTK (Rig			
SECTION 16: Other	information					
	ster / Vol. 77, No. 58 / Monda	W March 26, 2012 / Pulo	s and Regulations			
Revision date		09/21/2022	s and regulations			
Other information	:	Report language name.	English. In the event of	any conflict between E	English and other language	
		versions, the English ve			- •	
Full text of H-phrases						
	Causes skin irritation					
	Causes eye irritation					
	cause cancer					
Safety Data Sheet (SDS),	USA nmendations set forth herein	are taken from cources h	pelieved to be accurate a	e of the data horain h	owayar Rason Broducto	
THIS INVENIATION AND RECOF	IIIIEIUaliona ael Iorti nelen	are lanel HUIII SOULCES I	JENEVEL IU DE ACCUIALE à	is or the balle nerein. []	UWEVEL DESCU FILIOUCIS	

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.