

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 11/18/2015 Revision date: 10/30/2024 Supersedes: 10/11/2021

SECTION 1: Identification				
1.1. Identification				
Product form Product name CAS-No. Product code Other means of identification	: Article : S-13 : Mixture : 4916 : Clay Graphite Fire	l Shape		
1.2. Recommended use and restrictions on				
Use of the substance/mixture Recommended use 1.3. Supplier	: Refractory : Industrial use			
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	<u>.com</u>			
1.4. Emergency telephone number			9 Canada 4 000	104 0200
Emergency number		LY (CHEMTREC) USA nada +1 703-741-5970		J-424-30UU
SECTION 2: Hazard(s) identification				
2.1. Classification of the substance or mixed	ture			
GHS US classification Not classified				
2.2. GHS Label elements, including precau	tionary statements			
This product meets the definition and criteria for an regulations. No labeling obligation.	-	HA 29 CFR 1910.1200 a	and the EU REA	CH 1907/2006 Article 3(3)
2.3. Other hazards which do not result in c	lassification			
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
graphite		CAS-No.: 7782-42-5	20 – 50	Not classified
Coke		CAS-No.: 7440-44-0	20 - 50	Not classified
cristobalite Full text of hazard classes and H-statements : see s	action 16	CAS-No.: 14464-46-1	10 – 20	Carc. 1A, H350
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. First-aid measures after inhalation : Allow affected person to breathe fresh air. 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.				
4.2. Most important symptoms and effects				
Potential Adverse human health effects and : Danger of serious damage to health by prolonged exposure through inhalation.				
symptoms	-			-
Symptoms/effects after inhalation	: Dust on tear out. 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	Irritation.Dust from this product may cause eye irritation.			

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4.3. Immediate medical attention and specia	al treatment, if necessary
No additional information available	
SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguishing	j media
Suitable extinguishing media Unsuitable extinguishing media	: Use extinguishing media appropriate for surrounding fire. : In case of fire, all extinguishing media allowed.
5.2. Specific hazards arising from the chem	
Fire hazard	: Not flammable.
Reactivity in case of fire Hazardous decomposition products in case of fire	: On burning (carbon monoxide - carbon dioxide). : Fire conditions may produce carbon dioxide-carbon monoxide.
5.3. Special protective equipment and preca	
Firefighting instructions Protection during firefighting	 Fight fire with normal precautions from a reasonable distance. 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 No additional information available 6.1.2. For emergency responders	
Protective equipment	: Use personal protective equipment as required.
6.2. Environmental precautions No additional information available	
6.3. Methods and material for containment	and cleaning up
Methods for cleaning up	: Collect spillage.
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Wear Safety shoes, Gloves. Do not handle until all safety precautions have been read and understood.
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 a	
Storage conditions Incompatible products	 Store this product in a dry location where it can be protected from the elements. Strong acids.
SECTION 8: Exposure controls/person	al protection
8.1. Control parameters	
S-13 (Mixture)	
No additional information available	
graphite (7782-42-5) USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	2 mg/m ³ (Respirable fraction)
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
Coke (7440-44-0)	
No additional information available	
8.2. Appropriate engineering controls	
Appropriate engineering controls	: Dust on tear out. Provide adequate ventilation to minimize dust concentrations.
8.3. Individual protection measures/Person	
Hand protection:	
Wear protective gloves.	

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Skin and body protection:

Safety shoes

Respiratory protection:

Dust on tear out. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Solid in various shapes.
Color	: Black
Odor	: None
Odor threshold	: No data available
рН	: No data available
Melting point	: > 3000 °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	: No data available
Solubility	: Insoluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
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	
On heating/burning: release of carbon monoxide - carbo	on dioxide.
10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous reactions	
No additional information available	
10.4. Conditions to avoid	
No additional information available	
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	
Acute toxicity (oral) :	Not classified
Acute toxicity (dermal) : Acute toxicity (inhalation) :	Not classified Not classified
graphite (7782-42-5)	
LD50 oral rat	> 2000 mg/kg (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral)
LC50 Inhalation - Rat	> 2000 mg/m ³ air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (dust))

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cristobalite (14464-46-1) 6 – 7 pH 6 – 7 Serious eye damage/irritation : Not classified graphite (7782-42-5) 7 (1.3 %) pH 7 (1.3 %)	Coke (7440-44-0)	
Skin corrosion/inflation : Not classified graphic (7762-42-5)	LD50 oral rat	> 5000 mg/kg (Rat, Oral)
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SECTION 12: Ecological information 12.1. Toxicity graphite (7782-42-5) LC50 - Fish [1] > 100 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Static system, Fresh water, Experimental value, Lethal) EC50 - Crustacea [1] > 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Behaviour) EC50 72h - Algae [1] > 100 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Cell numbers) 12.2. Persistence and degradability Siodegradability: not applicable. Gremical oxygen demand (COD) Not applicable Not applicable Not applicable Persistence and degradability Mineral. Not applicable. Cristobalite (14464-46-1) Mineral. Not applicable. Persistence and degradability Mineral. Not applicable.		
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graphite (7782-42-5) LC50 - Fish [1] > 100 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Static system, Fresh water, Experimental value, Lethal) EC50 - Crustacea [1] > 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Behaviour) EC50 72h - Algae [1] > 100 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Growth rate) EC50 72h - Algae [2] > 100 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Growth rate) EC50 72h - Algae [2] > 100 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Cell numbers) 12.2. Persistence and degradability Siodegradability: not applicable. Chemical oxygen demand (COD) Not applicable BOD (% of ThOD) Not applicable Cristobalite (14464-46-1) Mineral. Not applicable. Persistence and degradability Mineral. Not applicable. Chemical oxygen demand (COD) Not applicable.		
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Experimental value, Lethal)EC50 - Crustacea [1]> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Behaviour)EC50 72h - Algae [1]> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Growth rate)EC50 72h - Algae [2]> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Cell numbers) 12.2. Persistence and degradability graphite (7782-42-5)Biodegradability: not applicable.Persistence and degradabilityBiodegradability: not applicable.Chemical oxygen demand (COD)Not applicableThODNot applicableBOD (% of ThOD)Not applicablecristobalite (14464-46-1)Persistence and degradabilityMineral. Not applicable.Chemical oxygen demand (COD)Not applicablecristobalite (14464-46-1)Persistence and degradabilityMineral. Not applicable.		
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system, Fresh water, Experimental value, Growth rate) EC50 72h - Algae [2] > 100 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Cell numbers) 12.2. Persistence and degradability graphite (7782-42-5) Persistence and degradability Biodegradability: not applicable. Chemical oxygen demand (COD) Not applicable ThOD Not applicable BOD (% of ThOD) Not applicable cristobalite (14464-46-1) Mineral. Not applicable. Persistence and degradability Mineral. Not applicable.	EC50 - Crustacea [1]	
12.2. Persistence and degradability system, Fresh water, Experimental value, Cell numbers) graphite (7782-42-5) graphite (7782-42-5) Persistence and degradability Biodegradability: not applicable. Chemical oxygen demand (COD) Not applicable ThOD Not applicable BOD (% of ThOD) Not applicable cristobalite (14464-46-1) Not applicable Persistence and degradability Mineral. Not applicable. Chemical oxygen demand (COD) Not applicable	EC50 72h - Algae [1]	
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Persistence and degradability Mineral. Not applicable. Chemical oxygen demand (COD) Not applicable	BOD (% of ThOD)	Not applicable
Chemical oxygen demand (COD) Not applicable	cristobalite (14464-46-1)	
	Persistence and degradability	Mineral. Not applicable.
ThOD Not applicable	Chemical oxygen demand (COD)	Not applicable
	ThOD	Not applicable

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cristobalite (14464-46-1)			
BOD (% of ThOD)	Not applicable		
Coke (7440-44-0)			
Persistence and degradability	Biodegradability in water: no data available.		
12.3. Bioaccumulative potential			
graphite (7782-42-5)			
Bioaccumulative potential	Not bioaccumulative.		
cristobalite (14464-46-1)			
Bioaccumulative potential	No data available.		
Coke (7440-44-0)			
Bioaccumulative potential	Not bioaccumulative.		
12.4. Mobility in soil			
cristobalite (14464-46-1)			
Ecology - soil	No data available.		
12.5. Other adverse effects			
No additional information available			
SECTION 13: Disposal considerations			
13.1. Disposal methods			
Product/Packaging disposal recommendations SECTION 14: Transport information	: Dispose in a safe manner in accordance with local/national regulations.		
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			
SECTION 15: Regulatory information			
15.1. US Federal regulations			
All components of this product are present and listed (TSCA) inventory	as Active on the United States Environmental Protection Agency Toxic Substances Control Act		
15.2. International regulations			
CANADA			
graphite (7782-42-5)			
Listed on the Canadian DSL (Domestic Substances I	LIST)		
cristobalite (14464-46-1)			
Listed on the Canadian DSL (Domestic Substances List)			
Coke (7440-44-0)			
Listed on the Canadian DSL (Domestic Substances I	List)		
EU-Regulations No additional information available			

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15.3. US State regulations	
S-13 (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 -	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
Graphite (7782-42-5)	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
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

SECTION 16: Other information

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

: 10/30/2

Revision date Other information

- 10/30/2024
- : 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

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.