

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 5/17/2023 Revision date: 5/17/2023 Supersedes: 11/25/2020

SECTION 1: Identification				
1.1. Identification				
	Article			
	: Article : N-1			
CAS-No.	: Mixture			
Product code	: 4924			
	: Clay Graphite Fired	Shape		
1.2. Recommended use and restrictions on u Use of the substance/mixture	Se Refractory			
	: Industrial use			
1.3. Supplier				
Resco Products, Inc. One Robinson Plaza, Suite 300 6600 Steubenville Pike Pittsburgh, PA, 15205 United States 412-494-4491 SDS@RescoProducts.com - WWW.RescoProducts.com	om			
1.4. Emergency telephone number				
Emergency number		Y (CHEMTREC) USA & ada +1 703-741-5970	Canada 1-800-	424-9300
SECTION 2: Hazard(s) identification				
2.1. Classification of the substance or mixtu	re			
GHS US classification Not classified				
2.2. GHS Label elements, including precaution	onary statements			
This product meets the definition and criteria for an arr regulations. No labeling obligation.		A 29 CFR 1910.1200 ar	nd the EU REAC	CH 1907/2006 Article 3(3)
2.3. Other hazards which do not result in cla	ssification			
No additional information available	Somouton			
2.4. Unknown acute toxicity (GHS US) No additional information available				
SECTION 3: Composition/Information or	n 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
cristobalite		CAS-No.: 14464-46-1		Carc. 1A, H350
aluminium oxide, non-fibrous		CAS-No.: 1344-28-1	5 – 10	Not classified
Full text of hazard classes and H-statements : see sec	tion 16			
SECTION 4: First-aid measures				
4.1. Description of first aid measures				
First-aid measures general First-aid measures after inhalation				
First-aid measures after skin contact				
	: Gently wash with plenty of soap and water. : 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 (acute and delayed)				
	· · · · · · · · · · · · · · · · · · ·		serious damaga	to health by prolonged ovposure
Symptoms/effects after skin contact	 May cause cancer by inhalation. Danger of serious damage to health by prolonged exposure through inhalation. Irritation. 			
Symptoms/effects after eye contact				
Symptoms/effects after ingestion : No data available.				
4.3. Immediate medical attention and special	treatment, if nece	ssary		
No additional information available				

SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguishing r	nedia
Suitable extinguishing media :	Use extinguishing media appropriate for surrounding fire. In case of fire, all extinguishing media allowed.
5.2. Specific hazards arising from the chemic	
Fire hazard :	Non-flammable.
5.3. Special protective equipment and precau	-
Firefighting instructions : Protection during firefighting :	No specific fire-fighting instructions required. Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release measure	S
6.1. Personal precautions, protective equipm	ent 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 ar	
Methods for cleaning up : 6.4. Reference to other sections	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.
	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 an	iy incompatibilities
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/personal	protection
8.1. Control parameters	
N-1 (Mixture)	
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
aluminium oxide, non-fibrous (1344-28-1)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	1 mg/m ³ respirable dust
graphite (7782-42-5)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	2 mg/m ³ (Respirable fraction)
8.2. Appropriate engineering controls	
Appropriate engineering controls : 8.3. Individual protection measures/Personal	Dust on tear out. Provide adequate ventilation to minimize dust concentrations. 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:	use, respiratory protection equipment is recommended. Dust on tear out
SECTION 9: Physical and chemical prop	
9.1. Information on basic physical and chemi Physical state	ical properties : Solid
Physical state Appearance Color Odor Odor threshold pH Melting point Freezing point Freezing point Boiling point Flash point Relative evaporation rate (butyl acetate=1) Flammability (solid, gas) Vapor pressure Relative vapor density at 20°C Relative density Solubility Partition coefficient n-octanol/water (Log Pow) Auto-ignition temperature Decomposition temperature Viscosity, kinematic Viscosity, kinematic Viscosity, dynamic Explosion limits Explosive properties Oxidizing properties	Solid in various shapes. Solid in various shapes. Black None No data available No data available No data available No data available No data available No data available No flammable. No data available 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 - carb	
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) Acute toxicity (dermal) Acute toxicity (inhalation)	: Not classified : Not classified : 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))	
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))	
Skin corrosion/irritation :	Not classified	
cristobalite (14464-46-1)		
рН	6 – 7	
aluminium oxide, non-fibrous (1344-28-1)		
рН	9 – 10.5 (aqueous suspension, 33 %)	
graphite (7782-42-5)		
pH	7 (1.3 %)	
	Not classified	
cristobalite (14464-46-1)		
рН	6 - 7	
aluminium oxide, non-fibrous (1344-28-1)		
рН	9 – 10.5 (aqueous suspension, 33 %)	
graphite (7782-42-5)		
рН	7 (1.3 %)	
Respiratory or skin sensitization :	Not classified	
Germ cell mutagenicity : Carcinogenicity :	Not classified Not classified	
Reproductive toxicity :	Not classified	
STOT-single exposure :	Not classified	
STOT-repeated exposure :	Not classified	
Aspiration hazard :	Not classified	
	No data available	
aluminium oxide, non-fibrous (1344-28-1)		
Viscosity, kinematic	Not applicable (solid)	
	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 : Symptoms/effects after ingestion :	Irritation. Dust from this product may cause eye irritation. No data available.	
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)	
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)	

graphite (7782-42-5)	
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	
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
graphite (7782-42-5)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
12.3. Bioaccumulative potential	
cristobalite (14464-46-1)	
Bioaccumulative potential	No data available.
aluminium oxide, non-fibrous (1344-28-1)
Bioaccumulative potential	No data available.
graphite (7782-42-5)	
Bioaccumulative potential	Not bioaccumulative.
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	
No additional information available	
SECTION 13: Disposal consideration	S
13.1. Disposal methods Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
	LUSOOSA IN A SATA MANDAL IN ACCOLOADCA WITH LOCAL/NATIONAL LOCILIATIONS

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Department of Transpor In accordance with DOT	tation (DOT)				
Not regulated					
Transportation of Dange	erous Goods				
Not regulated					
Transport by sea					
Not regulated					
Air transport Not regulated					
SECTION 15: Regula	atory information				
15.1. US Federal regul					
All components of this pro	duct are present and listed a	as Active on the United S	tates Environmental Pro	tection Agency Toxic S	Substances Control Act
(TSCA) inventory					
aluminium oxide, non					
· · · ·	quirements of the United Sta				
Note	oxide containe	d in this product is non-fil	brous, and thus is not a	section 313 material. C	ous forms)"; the Aluminu Dnly manufacturing,
15.2 International rea		otherwise use of aluminu	um oxide in the fibrous fo	orm triggers reporting.	
15.2. International reg					
cristobalite (14464-46	-1)				
	SL (Domestic Substances Li	st)			
aluminium oxide, non	-fibrous (1344-28-1)				
	SL (Domestic Substances Li	st)			
graphite (7782-42-5)					
	SL (Domestic Substances Li	st)			
EU-Regulations No additional information a	vailable				
lational regulations	Valiable				
lo additional information a	vailable				
15.3. US State regulati	ons				
N-1 (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 - Female	Reproductive Toxicity - Male		
Yes	No	No	No		
Component		State or local regul	lations		
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			
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			
SECTION 16: Other	information				
	ter / Vol. 77, No. 58 / Monda		es and Regulations		
Revision date Other information	· · · · · · · · · · · · · · · · · · ·	5/17/2023 Report language name.	English. In the event of	any conflict between F	- nglish and other langua
	•	. sport language name.		any commot between L	-nghôn ana othor langua

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-phrasesH350May cause cancer

Safety Data Sheet (SDS), USA

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