

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 10/11/2021 Supersedes: 03/04/2019 Issue date: 10/11/2021

## **SECTION 1: Identification**

Identification

Product form : Article Product name S-13 CAS-No. Mixture Product code 4916

Other means of identification Clay Graphite Fired Shape

Recommended use and restrictions on use 1.2.

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

Supplier

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## **SECTION 2: Hazard(s) identification**

#### Classification of the substance or mixture

#### **GHS US classification**

Not classified

#### GHS Label elements, including precautionary statements

This product meets the definition and criteria for an article according to OSHA 29 CFR 1910.1200 and the EU REACH 1907/2006 Article 3(3) regulations. No labeling obligation.

No additional information available

#### **Unknown acute toxicity (GHS US)**

Not applicable

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

#### **Substances** 3.1.

Not applicable

#### **Mixtures** 3.2.

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	(CAS-No.) 14464-46-1	10 – 20	Carc. 1A, H350

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

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

**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. Gently wash with plenty of soap and water. First-aid measures after skin contact

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.

Most important symptoms and effects (acute and delayed)

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

through inhalation.

Symptoms/effects after skin contact Irritation.

Symptoms/effects after eye contact Dust from this product may cause eye irritation.

Symptoms/effects after ingestion No data available.

Immediate medical attention and special treatment, if necessary

## No additional information available

### **SECTION 5: Fire-fighting measures**

#### Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

In case of fire, all extinguishing media allowed. Unsuitable extinguishing media

Specific hazards arising from the chemical

Fire hazard : Non-flammable.

#### Special protective equipment and precautions for fire-fighters 5.3.

Firefighting instructions Exercise caution when fighting any chemical fire.

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

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#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment 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.

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 acids.

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

#### 8.1. Control parameters

S-13 (Mixture)		
No additional information available		
graphite (7782-42-5)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH TWA (mg/m³)	2 mg/m³ (Respirable fraction)	
cristobalite (14464-46-1)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH TWA (mg/m³)	0.025 mg/m³ respirable dust	
USA - OSHA - Occupational Exposure Limits		
OSHA PEL (TWA) (mg/m³)	0.05 mg/m³ respirable dust	
Coke (7440-44-0)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH TWA (mg/m³)	2 mg/m³ (Respirable fraction)	

#### 8.2. Appropriate engineering controls

Appropriate engineering controls : Dust on tear out. Provide adequate ventilation to minimize dust concentrations.

3.3. Individual protection measures/Personal protective equipment

#### Hand protection:

protective gloves

#### Respiratory protection:

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

## **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 pH : No data available

Melting point : > 3000 °F
Freezing point : No data av

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) : Non flammable.
Vapor pressure : No data available
Relative vapor density at 20 °C : No data available

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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 - carbon 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) : Not classified
Acute toxicity (inhalation) : Not classified

Acute toxicity (illinatation)		. 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/m³ air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental

2000 Illiadion Teat	value, Inhalation (dust))
Coke (7440-44-0)	
LD50 oral rat	> 5000 mg/kg (Rat, Oral)
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified

Respiratory or skin sensitization : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified 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 : No data available

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 : Irritation.

Symptoms/effects after eye contact : Dust from this product may cause eye irritation.

Symptoms/effects after ingestion : No data available.

## **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 Daphnia 1	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Behaviour)

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12.2. Persistence an	nd degradability
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2.2. Persistence and degradability		
graphite (7782-42-5)		
Persistence and degradability	Biodegradability: not applicable.	
Biochemical oxygen demand (BOD)	Not applicable	
Chemical oxygen demand (COD)	Not applicable	
ThOD Not applicable		
BOD (% of ThOD) Not applicable		
cristobalite (14464-46-1)		
Persistence and degradability Mineral. Not applicable.		
Chemical oxygen demand (COD) Not applicable		
ThOD Not applicable		
BOD (% of ThOD) Not applicable		
Coke (7440-44-0)		

#### Persistence and degradability **Bioaccumulative potential** 12.3.

graphite (7782-42-5)		
Bioaccumulative potential No bioaccumulation data available.		
cristobalite (14464-46-1)		
Bioaccumulative potential No data available.		
Coke (7440-44-0)		
Bioaccumulative potential Not bioaccumulative.		

Biodegradability in water: no data available

#### 12.4. **Mobility in soil**

cristobalite (14464-46-1)		
	Ecology - soil	No data available.

#### Other adverse effects

No additional information available

## **SECTION 13: Disposal considerations**

## **Disposal methods**

Product/Packaging disposal recommendations

: Dispose in a safe manner in accordance with local/national regulations.

## **SECTION 14: Transport information**

#### **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

## S-13 (Mixture)

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

#### 15.2. International regulations

#### **CANADA**

## graphite (7782-42-5)

Listed on the Canadian DSL (Domestic Substances List)

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

Listed on the Canadian DSL (Domestic Substances List)

## Coke (7440-44-0)

Listed on the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

No additional information available

**National regulations** 

No additional information available

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15.3.	<b>US Stat</b>	e reau	lations
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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 - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
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
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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-phrases:

H350 May cause cancer	

SDS US (GHS HazCom 2012)
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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