

## Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2018

Date of issue: 12/19/2018 Revision date: 12/19/2018 Version: 1.0

Distributor

## **SECTION 1: Identification**

#### 1.1. Identification

Product form : Mixtures

Product name : Coal fly ash with additive MasterCem 6510/6500

## 1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use : For disposal, soil amendment, concrete additive or other alternative use

## 1.3. Details of the supplier of the safety data sheet

#### Manufacturer

Shaw Resources Nova Scotia Sand & Gravel Operation

901 Sandy Desert Road Shubenacadie, NS, B0N 2H0

T: 902-758-4730 (7:00am to 5:00pm AST, Mon-Fri)

Shipping Office Fax Number: 902-758-1365

## 1.4. Emergency telephone number

Emergency number : 902-758-4730 (7:00am to 5:00pm AST, Mon-Fri)

## **SECTION 2: Hazard identification**

## 2.1. Classification of the substance or mixture

## **GHS** classification

Irritant.

## 2.2. Label elements

## **GHS** labelling

Hazard pictograms (GHS)



Signal word (GHS) : None

Hazard statements (GHS) : Irritant: causes eye, skin and inhalation irritation.

Precautionary statements (GHS) : Use proper engineering controls, work practices and personal protective equipment. Read

SDS for details.

#### 2.3. Other hazards

No additional information available

## 2.4. Unknown acute toxicity

Not applicable

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

## 3.1. Substances

Not applicable

## 3.2. Mixtures

Name	Product identifier	%
Aluminium oxides	(CAS-No.) 7429-90-5	5-12
Iron oxides	(CAS-No.) 1309-37-1	1-12
Crystalline Silica (Quartz)	(CAS No) 14808-60-7	<0.1

Comments : The concentrations listed represent actual ranges that result from batch variability.

12/17/2018 EN (English) Page 1

## Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

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

## **Description of first aid measures**

First-aid measures after inhalation

: Remove victim to fresh air. Get medical advice/attention if irritation persists.

First-aid measures after skin contact : If skin irritation occurs, wash skin with soap and water. Obtain medical attention if irritation

: Flush with water to dislodge particles. Continue rinsing. If eye irritation persists: Get medical First-aid measures after eye contact

advice/attention.

First-aid measures after ingestion : Not an expected route of entry. Although ingestion of small quantities of ash is not known to be

harmful, large quantities can cause distress to digestive system. Get medical advice/attention if

needed

#### Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation : May cause irritation to the respiratory tract. Symptoms of exposure may include cough,

sneezing, and respiratory tract irritation.

Symptoms/effects after skin contact : May cause skin irritation in some cases or to those with sensitive skin.

Symptoms/effects after eye contact May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear

production.

Symptoms/effects after ingestion : Not an expected route of entry. May cause gastrointestinal irritation.

#### Indication of any immediate medical attention and special treatment needed

Symptoms may be delayed. In case of overexposure, seek medical advice (show the SDS where possible).

## **SECTION 5: Firefighting measures**

#### Extinguishing media

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

Unsuitable extinguishing media : N/ap.

#### Special hazards arising from the substance or mixture

: Products of combustion may include, and are not limited to: oxides of carbon. Fire hazard

Reactivity : Not reactive.

## Advice for firefighters

Firefighting instructions : Treat surrounding fire.

: Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory Protection during firefighting

protection (SCBA).

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

## Personal precautions, protective equipment and emergency procedures

General measures

: Use personal protection recommended in Section 8. Isolate the exposure area and deny entry to unnecessary and unprotected personnel.

#### 6.1.1. For non-emergency personnel

No additional information available

#### 6.1.2. For emergency responders

No additional information available

#### 6.2. **Environmental precautions**

Prevent entry to sewers and public waters. Dispose of waste according to municipal or local requirements.

## Methods and material for containment and cleaning up

For containment : Contain spill, then place in a suitable container. Minimize dust generation. Do not flush to sewer

or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Dust and particulate matter should be vacuumed with a filtered vacuum or wet swept where Methods for cleaning up vacuuming is not feasible. Place in appropriate disposal container. Provide good ventilation.

## Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

## SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

: Minimize dust generation. Avoid contact with skin, eyes and clothing. Good housekeeping is Precautions for safe handling important to prevent accumulation of dust. Handle and open container with care. When using

do not eat, drink or smoke and practice good personal hygiene after use (handwashing).

12/17/2018 EN (English) 2/5

## Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Hygiene measures : Always wash hands after handling the product.

## 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : No special requirements. Minimize dust, use good housekeeping

Incompatible materials : Not applicable.

## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

Aluminium oxide			
ACGIH	ACGIH TWA (mg/m³)	1 mg/m³	
OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³	
NIOSH	NIOSH REL (TWA) (mg/m³)	Not available	
Iron Oxide			
ACGIH	ACGIH TWA (mg/m³)	5 mg/m³	
OSHA	OSHA PEL (TWA) (mg/m³)	10 mg/m³	
NIOSH	NIOSH REL (TWA) (mg/m³)	5 mg/m³	
Silica (Quartz)			
ACGIH	ACGIH TWA (mg/m³)	0.025 mg/m³ (respirable particulate matter)	
OSHA	OSHA PEL (TWA) (mg/m³)	50 μg/m³	
NIOSH	NIOSH REL (TWA) (mg/m³)	0.05 mg/m³ (respirable dust)	

## 8.2. Exposure controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Hand protection : Wear suitable gloves.

Eye protection : Safety glasses or goggles are recommended when using product.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection

must be based on known or anticipated exposure levels, the hazards of the product and the

safe working limits of the selected respirator.

Other information : Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or

smoke when using this product.

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Fine grained solid
Colour : Grey powder
Odour : None

Odour threshold : No data available

pH : Netural

Melting point : No data available
Freezing point : No data available

Boiling point : >1100 C

Flash point : No data available
Relative evaporation rate (butylacetate=1) : No data available
Flammability (solid, gas) : Not flammable.
Vapour pressure : No data available
Relative vapour density at 20 °C : No data available

Relative density : 1.6 - 2.6

Solubility : Slightly soluble in water, <5%.

Partition coefficient n-octanol/water : No data available Auto-ignition temperature : No data available

12/17/2018 EN (English) 3/5

## Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Decomposition temperature : No data available Viscosity, kinematic : No data available Viscosity, dynamic : No data available Explosive limits : No data available Explosive properties : No data available Oxidising properties : No data available

## 9.2. Other information

No additional information available

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Unreactive.

#### 10.2. Chemical stability

Stable under normal conditions.

## 10.3. Possibility of hazardous reactions

Contact with powerful oxidizing agents may cause reaction.

## 10.4. Conditions to avoid

Heat. Incompatible materials.

## 10.5. Incompatible materials

Strong oxidizers.

STOT-single exposure

## 10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon.

## **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.

Silica (14808-60-7) Present at <1%		
LD50 oral rat	500 mg/kg	
Aluminium oxide		
LD50 oral rat	6207 mg/kg	
Iron oxide		
LD50 oral rat	2486 mg/kg	

Skin corrosion/irritation : Not classified.

Serious eye damage/irritation : Not classified.

Respiratory or skin sensitisation : Not classified.

Germ cell mutagenicity : Not classified.

Carcinogenicity : Mixture not classified.

Reproductive toxicity : Not classified.

STOT-repeated exposure : May cause damage to lungs through prolonged or repeated exposure above exposure limit.

Aspiration hazard : Not classified.

Symptoms/effects after inhalation : May cause irritation to the respiratory tract. Symptoms of exposure may include cough,

sneezing, and irritation.

Symptoms/effects after skin contact : May cause skin irritation.

Symptoms/effects after eye contact : May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear

production.

: Not classified.

Symptoms/effects after ingestion : Not an expected route of entry. May be harmful if swallowed. May cause gastrointestinal

irritation.

Other information : Likely routes of exposure: inhalation, skin and eye.

12/17/2018 EN (English) 4/5

## Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

## **SECTION 12: Ecological information**

## **Toxicity**

: The product is not considered harmful to aquatic organisms nor to cause long-term adverse Ecology - general

effects in the environment.

## Persistence and degradability

Silica Sand	
Persistence and degradability	Not established.

## **Bioaccumulative potential**

Silica Sand	
Bioaccumulative potential	Not established.

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

No additional information available

## Other adverse effects

Effect on the global warming : No known effects from this product.

Other information : No other effects known.

## **SECTION 13: Disposal considerations**

#### Waste treatment methods

: Dispose in a safe manner in accordance with local/national regulations. Product/Packaging disposal recommendations

## **SECTION 14: Transport information**

#### Department of Transportation (DOT) and Transportation of Dangerous Goods (TDG)

In accordance with DOT/TDG

Not regulated

## **SECTION 15: Regulatory information**

#### 15.1. Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories.

#### 15.2. International regulations

No additional information available

## 15.3. US State regulations

California Proposition 65 - This product contains small or trace amounts of Crystalline Silica, Quartz known to the State of California to cause cancer.

## **SECTION 16: Other information**

Revision date : 12/19/2018 Other information : None.

Prepared by : Mersereau Occupational Hygiene Consulting.

SDS HazCom 2012 - WHMIS 2015 (NexReg)

Disclaimer: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use

12/17/2018 EN (English) 5/5