

# Safety Data Sheet

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

Date of issue: 03/27/2015 Version: 1.0

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture

Product name : Basic Blast Furnace Slag
Other means of identification : Basic Slag, Furnace Slag

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

Use of the substance/mixture : Multiple Industrial & Commercial Uses

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

Republic Steel 2633 Eighth Street NE Canton, Ohio 44704 Fax 330-438-5423 Phone 330-438-5466

http://www.republicsteel.com/

## 1.4. Emergency telephone number

Emergency number : 24 hr. Emergency Contact : Republic Steel

U.S.A. 330.438.5466

International +1.330.438.5466

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### Classification (GHS-US)

Carc. 1A H350

#### 2.2. Label elements

## **GHS-US** labeling

Hazard pictograms (GHS-US)



GHS08

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H350 - May cause cancer

Precautionary statements (GHS-US) : P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood P280 - Wear protective gloves/protective clothing/eye protection/face protection

P308+P313 - IF exposed or concerned: Get medical advice/attention

P405 - Store locked up

## 2.3. Other hazards

Excessive dust generation may present a dust explosion hazard.

## 2.4. Unknown acute toxicity (GHS-US)

None of the ingredients are of unknown toxicity.

## SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Not applicable – this product is a mixture.

#### 3.2. Mixture

Name	Product identifier	%	Classification (GHS-US)
Quartz	(CAS No) 14808-60-7	0 - 2.5	Acute Tox. 4 (Oral), H302 Carc. 1A, H350

04/06/2015 EN (English US) Page 1/6

## 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 victim to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by

warm water rinse.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

persist.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

Symptoms/injuries after inhalation : May cause cancer by inhalation.

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

No additional information available

## **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

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

No additional information available

#### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

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

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

## 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

## 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or 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. Store away from

other materials. Fine material should be removed by vacuuming or wet sweeping to minimize

dusting. Avoid using compressed air.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Provide good ventilation in process area. Do not handle until all safety precautions have been read and understood.

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

Storage conditions : Keep only in the original container in a cool, well ventilated place. Keep container closed when

not in use.

Incompatible products : Strong bases. Strong acids.
Incompatible materials : Sources of ignition. Direct sunlight.

## 7.3. Specific end use(s)

No additional information available

04/06/2015 EN (English US) 2/6

# Safety Data Sheet

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

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Quartz (14808-60-7)		
USA ACGIH	ACGIH TWA (mg/m³)	0.025 mg/m³
OSHA	OSHA PEL (mg/m³)	(10 mg/m³)/(%SiO <sub>2</sub> +2)(respirable)

## 8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses.

Respiratory protection : If processing of this product generates particulates, local and general ventilation may be

necessary to control employee exposures to within applicable limits. If the exposure limits indicated are exceeded, NIOSH approved respirators for protection against dust and/or fume

should be worn in accordance with 29 CFR 1910.134.

Other information : Do not eat, drink or smoke during use.

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

## 9.1. Information on basic physical and chemical properties

Physical state : Solid
Appearance : Stone-like

Color : Light gray to dark dray
Odor : Slight sulfur smell
Odor threshold : No data available
pH : No data available
Relative evaporation rate (butyl acetate=1) : No data available

Melting point : 1482 °C

Freezing point : No data available Boiling point No data available Flash point : No data available Auto-ignition temperature : No data available Decomposition temperature : No data available Flammability (solid, gas) No data available Vapor pressure No data available Relative vapor density at 20 °C No data available

Relative density : 7.5 - 8.5

Solubility : Insoluble in water Log Pow : No data available No data available Log Kow Viscosity, kinematic No data available No data available Viscosity, dynamic Explosive properties No data available Oxidizing properties No data available **Explosive limits** No data available

## 9.2. Other information

No additional information available

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

#### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable.

#### 10.3. Possibility of hazardous reactions

Not established.

04/06/2015 EN (English US) 3/6

## Safety Data Sheet

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

#### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong bases.

#### 10.6. Hazardous decomposition products

Fume. Carbon monoxide. Carbon dioxide.

## **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

Quartz (14808-60-7)	
LD50 oral rat	500 mg/kg
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Not classified
Respiratory or skin sensitization :	Not classified
Germ cell mutagenicity	Not classified

Quartz (14808-60-7)	
IARC group	1 - Carcinogenic to humans
National Toxicity Program (NTP) Status	2 - Known Human Carcinogens

Reproductive toxicity : Not classified Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated

exposure)

Carcinogenicity

: Not classified

: May cause cancer.

Aspiration hazard : Not classified

Potential Adverse human health effects and :

symptoms

: No additional information available

Symptoms/injuries after inhalation : May cause cancer by inhalation.

## **SECTION 12: Ecological information**

#### 12.1. Toxicity

No additional information available

## 12.2. Persistence and degradability

Basic Blast Furnace Slag	
Persistence and degradability	Not established.

# 12.3. Bioaccumulative potential

Basic Blast Furnace Slag	
Bioaccumulative potential	Not established.

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Other information : Avoid release to the environment.

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local, state and federal regulations.

Ecology - waste materials : Avoid release to the environment.

04/06/2015 EN (English US) 4/6

## Safety Data Sheet

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

## **SECTION 14: Transport information**

In accordance with DOT

#### **ADR**

No additional information available

#### Transport by sea

No additional information available

#### Air transport

No additional information available

## **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

Basic Blast Furnace Slag	
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard

#### Quartz (14808-60-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 15.2. International regulations

#### **CANADA**

Quartz (14808-60-7)		
Listed on the Canadian DSL (Domestic Sustances List)		
WHMIS Classification Class D Division 2 Subdivision A - Very toxic material causing other toxic effects		

#### **EU-Regulations**

## Quartz (14808-60-7)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

No additional information available.

#### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

No additional information available.

#### 15.2.2. National regulations

#### Quartz (14808-60-7)

Listed on IARC (International Agency for Research on Cancer)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed as carcinogen on NTP (National Toxicology Program)

Listed on the Canadian IDL (Ingredient Disclosure List)

## 15.3. US State regulations

Quartz (14808-60-7)				
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 significance risk level (NSRL)
Yes				

04/06/2015 EN (English US) 5/6

# Safety Data Sheet

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

## **SECTION 16: Other information**

Other information

## Full text of H-phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Carc. 1A	Carcinogenicity Category 1A
H302	Harmful if swallowed
H350	May cause cancer

SDS US (GHS HazCom 2012)

The information in this SDS was obtained from sources we believe are reliable. However, the information is provided without any representation or warranty, express or implied, regarding the accuracy or correctness. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use, or disposal of the product.

04/06/2015 EN (English US) 6/6