

# Boiler Ash

## Safety Data Sheet

according to the United Nations GHS (Rev. 5, 2013)

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### SECTION 1: Identification

#### 1.1. Product identifier

Product form : Mixture  
Product name : BoilerAsh  
Type of product : Waste material

#### 1.2. Supplier's details

Impala Platinum Limited  
Cnr of East Geduld Road and Cowles Street  
Springs  
1559

#### 1.3. Emergency telephone number

Emergency number : +27 11 360 3111

### SECTION 2: Hazards identification

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

##### Classification according to the United Nations GHS

Not classified

#### 2.2. Label elements

##### Labelling according to the United Nations GHS

Hazard pictograms (GHS-UN) :



Signal word (GHS-UN) : Warning  
Hazard statements (GHS-UN) : H331: Toxic if inhaled  
H335: May cause respiratory sensitisation  
H351: Suspected of causing cancer (inhalation)  
Precautionary statements (GHS-UN) : P230: Keep wetted with water  
P260 - Do not breathe dust  
P273: Avoid release to the environment  
P304+P312: If Inhaled: Call a Poison Centre

#### 2.3. Other hazards

Adverse physicochemical, human health and environmental effects : Long term inhalation can lead to lung disease and lung cancer

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%
Quartz	(CAS No) 14808-60-7	2.4

Full text of H-statements: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures general : IF exposed or concerned: Get medical advice/attention.  
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Remove the victim into fresh air. Get medical advice/attention.  
First-aid measures after skin contact : Wash immediately with lots of water. Wash skin with plenty of water.  
First-aid measures after eye contact : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Rinse eyes with water as a precaution.  
First-aid measures after ingestion : Rinse mouth with water. Call a physician immediately.

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

Symptoms/injuries after inhalation : AFTER INHALATION OF DUST: May cause respiratory irritation. Respiratory difficulties.  
Potential adverse human health effects and symptoms : Harmful if inhaled.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.

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

Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

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

Personal Precautions, Protective Equipment and Emergency Procedures : Respiratory protection. Protective clothing.

#### 6.1.1. For non-emergency personnel

Protective equipment : Protective clothing. Respiratory protection.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters.

### 6.3. Methods and material for containment and cleaning up

For containment : Collect spillage. Using a clean shovel, put the material in a dry container and cover without compressing it.

Methods for cleaning up : Recover mechanically the product. Shovel or sweep up and put in a closed container for disposal. Prevent dust cloud formation.

Other information : Dispose of materials or solid residues at an authorized site.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Do not breathe dust. Avoid dust formation.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Storage conditions : Store in a silo.

Maximum storage period : <= 18 months from day of generation

## SECTION 8: Exposure controls/personal protection

### 8.1. Appropriate engineering controls

Appropriate engineering controls : Do not breathe dust. Ensure good ventilation of the work station.

Environmental exposure controls : Avoid creating or spreading dust. Avoid release to the environment.

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### 8.2. Individual protection measures, such as personal protective equipment (PPE)

Hand protection	: Protective gloves
Eye protection	: Safety glasses
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment



## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Solid.
pH solution	: $\approx 12.77$
Flash point	: $> 61\text{ }^{\circ}\text{C}$

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Avoid creating or spreading dust. Avoid dust formation.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

No additional information available

## SECTION 11: Toxicological information

Likely routes of exposure : Inhalation.

### 11.1. Information on toxicological effects

Acute toxicity (inhalation)	: Inhalation may cause mechanical irritation or discomfort. Long term inhalation may cause cancer.
Respiratory or skin sensitisation	: Inhalation can cause respiratory sensitisation
Carcinogenicity	: Long term exposure to respirable crystalline silica may cause cancer
Potential adverse human health effects and symptoms	: Harmful if inhaled.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified

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### SECTION 13: Disposal considerations

#### 13.1. Disposal methods

- Regional legislation (waste) : Disposal in terms of the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008)
- Ecology - waste materials : Avoid release to the environment.

### SECTION 14: Transport information

In accordance with IMDG / IATA / UN RTDG

#### 14.1. UN number

- UN-No. (UN RTDG) : 3288
- UN-No. (IMDG) : 3288
- UN-No. (IATA) : 3288

#### 14.2. Proper Shipping Name

- Proper Shipping Name (UN RTDG) : Toxic Solid, Inorganic, N.O.S
- Proper Shipping Name (IMDG) : Toxic Solid, Inorganic, N.O.S
- Proper Shipping Name (IATA) : Toxic Solid, Inorganic, N.O.S

#### 14.3. Transport hazard class(es)

##### UN RTDG

- Transport hazard class(es) (UN RTDG) : 6.1
- Danger labels (UN RTDG) : 6.1



#### 14.4. Packing group

- Packing group (UN RTDG) : II
- Packing group (IMDG) : II
- Packing group (IATA) : II

#### 14.5. Environmental hazards

- Dangerous for the environment : No
- Marine pollutant : No
- Other information : No supplementary information available

#### 14.6. Special precautions for user

- Special transport precautions : Avoid release to the environment

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

### SECTION 15: Regulatory information

#### 15.1. Safety, health, and environmental national regulations specific for the product

- Regulatory reference : National Environmental Management: Waste Act, 2008, Waste Classification and Management Regulations
- National Environmental Management: Waste Amendment Act
- SANS 10234

### SECTION 16: Other information

- Abbreviations and acronyms : SDS - Safety Data Sheet

SDS UN

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*