

Safety Data Sheet

Waste handling and transport, RSA. No OELs / BLVs.

by: **TALBOT**
talbot.co.za | talbot@talbot.co.za 

Conforms to SANS 10234:2019, SANS 11014:2010
SDS compiled: 2022/10/14. Valid until: 2027/10/13
unless the applicable substance or mixture is altered
Version: 1

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WASTE MIXTURE: SOLID
UNIQUE ID: 2020# BOILER ASH (CLOVER
QUEENSBURGH)14.09.2022

1. Identification

GHS product identifier

Trade name(s) : UNIQUE ID: 2020# BOILER ASH (CLOVER QUEENSBURGH)14.09.2022

Supplier product code : No data available.

Other means of identification

Other synonym(s) : No data available.

Road & Rail PSN : NOT REGULATED

Relevant use(s) of the Mixture and restrictions on use

Identified use(s) : WASTE - intended for transport by road or rail, and disposal.

Uses advised against : WASTE - if a commercial product residue, not intended for original use. KEEP AWAY FROM clothing. DO NOT eat, drink or smoke when using this product. AVOID release to the environment. Collect spillage.

Generator details

Generator name : Energy Partners Steam

Generator address : 100 Richmond Road, Queensburgh 4064

Contact title, name : Justin Probert

Phone number(s) : +27 82 325 5236

Alternative contact(s) : justin.p@energypartners.co.za

Emergency contacts

Contact title, name : Justin Probert

Emergency number(s) : +27 82 325 5236

After-hours number(s) : +27 82 325 5236

2. Hazards identification

Classification of the Mixture per SANS 10234:2019

GHS hazard category : GHS hazard statements

- 3 : SKIN IRRITATION
- 2A : SERIOUS EYE IRRITATION

Hazards not otherwise classified : In the event that the waste is utilised in a manner that results in significant dust generation, potential health hazards may arise from dust exposure via inhalation.

Inhalation (acute): Inhalation of dust may cause irritation to the respiratory tract and/or chest pain.

Inhalation (chronic): Repeated inhalation of dust containing respirable crystalline silica is associated with silicosis, lung cancer and autoimmune disorders. Long term exposure to aluminium oxide dust can lead to lung damage, long term exposure to iron oxide dust can lead to pneumoconiosis (siderosis) and long term exposure to titanium oxide dust can cause lung fibrosis (potential occupational carcinogen).

GHS hazard label elements

Symbol(s) :



Exclamation mark
(GHS07)

Signal word : **WARNING**

GHS hazard statements

Physical

No data available.

Health

- H316 : Causes mild skin irritation
- H319 : Causes serious eye irritation

Environmental

No data available.

Precautionary measures label elements

General

Prevention

P220 : KEEP AWAY FROM clothing.
P261 : AVOID breathing dust, fume, gas, mist, vapours, spray.
P262 : DO NOT get in eyes, on skin, or on clothing.
P264 : Wash skin thoroughly after handling.
P270 : DO NOT eat, drink or smoke when using this product.
P273 : AVOID release to the environment.
P280 : Wear protective gloves, protective clothing, eye protection, face protection.

Response

P314 : Get medical advice / attention if you feel unwell.
P374 : Fight fire with normal precautions from a reasonable distance.
P391 : Collect spillage.
P301+P312 : IF SWALLOWED: Call a POISON CENTRE or doctor /physician if you feel unwell.
P304+P312 : IF INHALED: Call a POISON CENTRE or doctor/physician if you feel unwell.
P305+P351+P338 : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P311 : If exposed or concerned: Call a POISON CENTRE or doctor/physician.
P337+P313 : If eye irritation persists: Get medical advice/attention.

Storage

Disposal

P501 : Dispose of contents/container to an approved facility in accordance with all applicable regulations and landfill requirements per this safety data sheet's Section 13.

Other

3. Composition or information on ingredients

Substance/mixture : Mixture

Ingredient(s)	CAS/IUPAC/Other Name(s)	[C/I/SA] %	Classification (Regulation)
Silicon dioxide (SiO ₂)	7631-86-9	63.47%[NS]	-
Aluminium oxide (Al ₂ O ₃)	1344-28-1	29.48%[NS]	-
Barium oxide (BaO)	1304-28-5	0.10%[NS]	H316
Calcium oxide (CaO)	1305-78-8	0.95%[NS]	H316 H319
Iron oxide (Fe ₂ O ₃)	1309-37-1	3.55%[NS]	-
Potassium oxide (K ₂ O)	12136-45-7	0.77%[NS]	H316 H319
Magnesium oxide (MgO)	1309-48-4	0.44%[NS]	-
Titanium dioxide (TiO ₂)	13463-67-7	1.44%[NS]	-

Notes to above table: [C] Constituent component; [I] Impurity; [SA] Stabilising Additive; [NS] Not Specified; [O] Other

Hazardous ingredients : Refer to above table.
above cut-off levels

Other identifier(s) : No data available.

4. First-aid measures

Where the manufacturer/supplier/generator was unable to specify relevant measures, SANS 10234:2019 precautionary statements have been used.

- Immediate actions : If exposed or concerned: Call a POISON CENTRE or doctor/physician.
- Actions to be avoided : DO NOT eat, drink or smoke when using this product. AVOID release to the environment.

First-aid measures

- Inhalation : AVOID breathing dust, fume, gas, mist, vapours, spray. IF INHALED: Call a POISON CENTRE or doctor/physician if you feel unwell.
- Skin Contact : KEEP AWAY FROM clothing. DO NOT get in eyes, on skin, or on clothing. Wash skin thoroughly after handling. Wear protective gloves, protective clothing, eye protection, face protection.
- Eye Contact : DO NOT get in eyes, on skin, or on clothing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- Ingestion : DO NOT get in eyes, on skin, or on clothing. IF SWALLOWED: Call a POISON CENTRE or doctor /physician if you feel unwell.

Anticipated effects and symptoms summaries - see Section 11 for full explanations

- Acute effects : On contact is expected to cause skin irritation and serious eye irritation. Inhalation of dust may cause irritation to the respiratory tract.
- Delayed effects : Repeated exposure to dust can result in lung damage or disease.
- Symptoms / effects : No data available.

Protection of first-aiders and notes for attending physicians

- First-aid protection : No data available.
- Physician notes : Get medical advice / attention if you feel unwell.

5. Fire-fighting measures

Where the manufacturer/supplier/generator was unable to specify relevant measures, SANS 10234:2019 precautionary statements have been used.

Unsuitable extinguishing media	: No data available.
Extinguishing media and methods	: Use extinguishing media suitable to the surrounding fire.
Specific hazards arising from the Mixture	: No data available.
Protection of fire-fighters	: KEEP AWAY FROM clothing. AVOID breathing dust, fume, gas, mist, vapours, spray. Fight fire with normal precautions from a reasonable distance.

6. Accidental release measures

Where the manufacturer/supplier/generator was unable to specify relevant measures, SANS 10234:2019 precautionary statements have been used.

Personal precautions, protective equipment, and emergency procedures	: KEEP AWAY FROM clothing. Wear protective gloves, protective clothing, eye protection, face protection.
Environmental precautions	: AVOID release to the environment. Collect spillage.
Methods and materials for containment and for clean-up	: Contain and collect as any solid. Avoid actions that cause dust to become airborne. Do not breathe dust, and do not allow large quantities of dust or wetted material to contact skin or eyes.
Secondary disaster prevention measures	: No data available.
Additional information	: No data available.

7. Handling and storage

Safe handling	: DO NOT get in eyes, on skin, or on clothing. DO NOT eat, drink or smoke when using this product. AVOID release to the environment. Wear protective gloves, protective clothing, eye protection, face protection.
Safe storage	: No data available.
Technical measures	: No data available.
Incompatible materials	: No data available.
Packaging	: No data available.

Additional information : Eating, drinking and smoking in work areas is prohibited. Remove contaminated clothing and protective equipment, and wash hands after use and before entering eating areas.

8. Exposure controls and personal protection

Concentration and exposure limits

Permissible concentration : No data available.

Exposure controls and Personal Protective Equipment (PPE)

Engineered controls : Activities that generate dust require the use of general ventilation and/or wet suppression methods to maintain exposure.

Respiratory PPE : Use respiratory protection approved under appropriate government standards.

Hand / arm PPE : Handle with gloves approved under appropriate government standards.

Eye / face PPE : Use equipment for eye protection tested and approved under appropriate government standards.

Skin / body PPE : Wear protective clothing.

Hygiene measures : Handle in accordance with good hygiene and safety practice. Wash hands before and after handling.

Special conditions posing a hazard

Hazardous conditions : KEEP AWAY FROM clothing. Avoid dust generation.

Additional information : No data available.

9. Physical and chemical properties (whole waste mixture)

Appearance : Grey/brown pieces of ash

Odour : Odourless

Odour threshold : No data available.

pH, concentration : 7

Melting point : No data available.

Freezing point : No data available.

Initial boiling point : No data available.

Boiling point : No data available.

Boiling range : No data available.

Flashpoint : No data available.

Flammability	: No data available.
Auto-ignition point	: No data available.
Decomposition point	: No data available.
Lower explosion limit	: No data available.
Upper explosion limit	: No data available.
Vapour pressure	: No data available.
Evaporation rate	: No data available.
Vapour density	: No data available.
Density	: No data available.
Bulk density	: No data available.
Relative density, SG	: No data available.
Solubility	: No data available.
Partition coeff. (n-oct)	: No data available.
Partition coeff. (water)	: No data available.
Dynamic viscosity	: No data available.
Kinematic viscosity	: No data available.
Radioactivity	: No data available.

10. Stability and reactivity

Conditions to avoid	: Avoid dust generation.
Incompatible materials	: No data available.
Hazardous decomposition	: No data available.
Additional information	: No data available.

11. Toxicological information

GHS Classification of Health Hazards

- Acute toxicity : No data available.
- Skin irritation/corrosion : Causes mild skin irritation
- Eye damage/irritation : Causes serious eye irritation
- Respiratory or skin sensitization : No data available.
- Germ cell mutagenicity : No data available.
- Carcinogenicity : No data available.
- Reproductive toxicity : No data available.
- Specific target organ toxicity - single exp. : No data available.
- Specific target organ toxicity - repeated exp. : No data available.
- Aspiration hazard : No data available.

Hazard	Ingredient	Result	Species	Dose	Time
Skin irritation	CaO, K ₂ O, BaO	H316(3)	-	-	-
Eye irritation	CaO, K ₂ O	H319(2A)	-	-	-

Additional information : Inhalation (acute): Inhalation of dust may cause irritation to the respiratory tract and/or chest pain.

Inhalation (chronic): Repeated inhalation of dust containing respirable crystalline silica is associated with silicosis, lung cancer and autoimmune disorders. Long term exposure to aluminium oxide dust can lead to lung damage, long term exposure to iron oxide dust can lead to pneumoconiosis (siderosis) and long term exposure to titanium oxide dust can cause lung fibrosis (potential occupational carcinogen).

12. Ecological information

GHS Classification of Aquatic Environment Hazards

- Acute aquatic toxicity : No data available.
- Chronic aquatic toxicity : No data available.
- Hazard to the ozone layer : No data available.

Hazard	Ingredient	Result	Species	Dose	Time

Persistence and degradability : No data available.

Bioaccumulation potential : No data available.

Mobility in soil : No data available.

PBT, vPvB summary : No data available.

Other adverse effects : No data available.

Additional information : Generic hazard data used above.

13. Disposal considerations

Current disposal prohibition/restrictions : No current prohibitions identified.

Landfill Class (RSA) (subject to treatment) : Type 3 Waste: Class C Landfill (GLB+) per: GN R635 (7)(2)(d) - strictly subject to treatment due to GN R636 (5)(1) prohibited disposal: see above.

Future disposal prohibition/restrictions : No future restrictions identified.

Safe, environmentally preferred disposal : Dispose of contents/container to an approved facility in accordance with all applicable regulations and landfill requirements per this safety data sheet's Section 13.

Additional information : Do not fly tip. Do not dispose into sewer, stormwater, or environment. Do not burn unless by means of compliant incineration practices.

14. Transport information

Proper Shipping Name (PSN) for: Road & Rail (SANS 10228) | Air (IATA) | Sea Freight (IMO/IMDG)

Road & Rail PSN : NOT REGULATED

IATA PSN : NOT REGULATED

IMO/IMDG PSN : NOT REGULATED

Dangerous Goods Transportation: Road & Rail Requirements (SANS 10228:2012)

UN number : -

Dangerous goods class (& Subsidiary) : -

Packing group : -

Special provisions : -

Packaging codes : -

Marine pollutant : No data available.

Transport in bulk according to MARPOL 73/78 Annex II and the IBC Code

Regulation : Not intended for sea freight.

Shipment approved : Not intended for sea freight.

Pollution name : Not intended for sea freight.

Pollution category : Not intended for sea freight.

Ship type : Not intended for sea freight.

Additional information

Additional information : No data available.

15. Regulatory information

Occupational H&S : Occupational Health and Safety Act (Act No. 85 of 1993)

Environment & Disposal : National Environmental Management: Waste Act (Act No. 59 of 2008)
: GN R634 Waste Classification and Management Regulations
: GN R635 National Norms & Standards for the Assessment of Waste for Landfill Disposal
: GN R636 National Norms and Standards for Disposal of Waste to Landfill

Other (domestic) : National Road Traffic Act, 1996 (Act No. 93 of 1996)

Other (international) : No data available.

Classification & Hazard communication : SANS 10228:2012 The identification and classification of dangerous goods for transport by road and rail modes
: SANS 10234:2008 List of classification and labelling of chemicals in accordance with the Globally Harmonized System (GHS)
: SANS 10234:2019 Globally Harmonized System of classification and labelling of chemicals (GHS)

16. Other information

Compilation & version : 2022/10/14, Version: 1, Revision: -

Revision(s) : Not applicable

Summary of Mixture Hazard Classification and Categories

3 : SKIN IRRITATION
2A : SERIOUS EYE IRRITATION

Summary of Mixture Hazard Statements

H316 : Causes mild skin irritation
H319 : Causes serious eye irritation

Signal word : **WARNING**

Other : No data available.

Disclaimer & Use

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