Safety Data Sheet

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

by: TALBOT
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Conforms to SANS 10234:2019, SANS 11014:2010 SDS compiled: 2022/09/29. Valid until: 2027/09/28 unless the applicable substance or mixture is altered Version: 1

SDS Compiler v20.09.10.05.1

WASTE MIXTURE: SOLID ILLOVO SUGAR - ESTON MILL: ASH

1. Identification

GHS product identifier

Trade name(s) : ILLOVO SUGAR - ESTON MILL: ASH

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. DO NOT

eat, drink or smoke when using this product. AVOID release to the environment.

Collect spillage.

Generator details

Generator name : Illovo Sugar South Africa (Pty) Ltd - Eston Mill

Generator address : District Rd R624,Eston, 3740

Contact title, name : Nancy Sutar

Phone number(s) : +27 (0) 83 504 3005

Alternative contact(s) : nsutar@illovo.co.za

Emergency contacts

Contact title, name : Nancy Sutar

Emergency number(s) : +27 (0) 83 504 3005

After-hours number(s) : +27 (0) 83 504 3005

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2. Hazards identification

Classification of the Mixture per SANS 10234:2019

GHS hazard category: GHS hazard statements

2: SKIN IRRITATION

1: SERIOUS EYE DAMAGE

Hazards not otherwise: In the event that the waste is utilised in a manner that results in significant dust classified generation, potential health hazards may arise from dust exposure via inhalation. In the current form (wet ash), the waste is not expected to carry any significant inhalation hazards.

> 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)



Corrosive (GHS05)

: DANGER Signal word

GHS hazard statements

Physical

No data available.

Health

H315: Causes skin irritation

H318: Causes serious eye damage

Environmental

No data available.

Precautionary measures label elements

General

Prevention

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.

P302+P352: IF ON SKIN: Wash with plenty of water.

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.

P362+P364: Take off contaminated clothing and wash it before reuse.

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)
Chemical Composition			
Silicon dioxide (SiO ₂)	7631-86-9	72.26%[NS]	-
Iron oxide (Fe ₂ O ₃)	1309-37-1	11.24%[NS]	-
Aluminium oxide (Al ₂ O ₃)	1344-28-1	9.18%[NS]	-
Potassium oxide (K ₂ O)	12136-45-7	2.31%[NS]	H315 H318
Calcium oxide (CaO)	1305-78-8	1.89%[NS]	H315 H318
Magnesium oxide (MgO)	1309-48-4	0.98%[NS]	-
Sodium oxide (Na ₂ O)	1313-59-3	0.86%[NS]	H315 H318
Titanium dioxide (TiO ₂)	13463-67-7	0.46%[NS]	-
Phosphorous pentoxide	1314-56-3	0.17%[NS]	H315 H318
(P ₂ O ₅)			
Mineral Composition Quartz (SiO ₂) Plagioclase ((Na,Ca)(Si,Al) ₄ O ₈) Microcline (KAlSi ₃ O ₈) Enstatite (MgSiO ₃) Augite ((Ca,Na)(Mg,Fe,Al)(Al,Si) ₂ O ₆) Muscovite (KAl ₂ (Si ₃ Al)O ₁₀ (OH,F) ₂	14808-60-7 68476-25-5 - 14681-78-8 - 12001-26-2	60%[NS] 14%[NS] 12%[NS] 10.8%[NS] 1.8%[NS]	- - - -

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

Hazardous ingredients : Refer to above table.

above cut-off levels

Additional information : 1. Elemental oxides were used to represent chemical composition and assist with hazard assignments.

2. Amorphous phases, if present, were not taken into consideration during quantification.

3. Mineral names may not reflect the actual compositions of minerals identified, but rather the mineral group. Ideal mineral formulae are represented above.

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. Take off contaminated

clothing and wash it before reuse.

Skin Contact : DO NOT get in eyes, on skin, or on clothing. Wash skin thoroughly after handling.

Wear protective gloves, protective clothing, eye protection, face protection. IF ON

SKIN: Wash with plenty of water.

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.

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 damage.

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-aider 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

: No data available.

extinguishing media

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

: AVOID breathing dust, fume, gas, mist, vapours, spray. Fight fire with normal

precautions from a reasonable distance.

Accidental release measures

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

Personal precautions, : Wear protective gloves, protective clothing, eye protection, face protection.

protective equipment, and emergency procedures

Environmental precautions

: AVOID release to the environment. Collect spillage.

for containment and for clean-up

Methods and materials: 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.

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.

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 : Avoid dust generation.

Additional information : No data available.

9. Physical and chemical properties (whole waste mixture)

Appearance : Damp, black pieces of ash

Odour : Odourless

Odour threshold : No data available.

pH, concentration : 6.8

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.

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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 decompostion

: 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 skin irritation

Eye damage/irritation : Causes serious eye damage

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 : No data available.

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toxicity - repeated exp.

Aspiration hazard No data available.

Hazard	Ingredient	Result	Species	Dose	Time
Skin irritation	CaO, Na ₂ O, K ₂ O,	P ₂ O ₅ H315(2)	-	-	-
Eye damage	CaO, Na ₂ O, K ₂ O,	P ₂ O ₅ H318(1)	-	-	-

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

No data available.

layer

Hazard	Ingredient	Result	Species	Dose	Time

Persistence and degradability

: No data available.

Bioaccumulation

: No data available.

potential

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

: No future restrictions identified.

prohibition/restrictions

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.

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Additional information

Additional information : No data available.

15. Regulatory information

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

Environment &

: National Environmental Management: Waste Act (Act No. 59 of 2008) : GN R634 Waste Classification and Management Regulations

Disposal

: 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 &

: SANS 10228:2012 The identification and classification of dangerous goods for

Hazard communication 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 : 2022/09/29, Version: 1, Revision: -

Revision(s) : Not applicable

Summary of Mixture Hazard Classification and Categories

2: SKIN IRRITATION

1: SERIOUS EYE DAMAGE

Summary of Mixture Hazard Statements

H315: Causes skin irritation

H318: Causes serious eye damage

Signal word : DANGER

Other : No data available.

Disclaimer & Use

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