



Safety Data Sheet

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

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Conforms to SANS 10234:2019, SANS 11014:2010
SDS compiled: 2022/11/21. Valid until: 2027/11/20
unless the applicable substance or mixture is altered
Version: 1

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WASTE MIXTURE: SLUDGE SLUDGE

1. Identification

GHS product identifier

Trade name(s) : SLUDGE

Supplier product code : No data available.

Other means of identification

Other synonym(s) : No data available.

Road & Rail PSN : SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S

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. Take precautionary measures against static discharge. 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

Generator address : Sezela Sugar Mill, 1 Smuts Road, Sezela, 4215

Contact title, name : Viticka Barnard

Phone number(s) : +27 39 975 8000

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

Emergency contacts

Contact title, name : Carl Myers

Emergency number(s) : +27 39 975 8229

After-hours number(s) : +27 39 975 8229

2. Hazards identification

Classification of the Mixture per SANS 10234:2019

GHS hazard category : GHS hazard statements

3 : FLAMMABLE LIQUID

Hazards not otherwise classified : No data available.

GHS hazard label elements

Symbol(s) :



Flame
(GHS02)

Signal word : **WARNING**

GHS hazard statements

Physical

H226 : Flammable liquid and vapour

Health

No data available.

Environmental

No data available.

Precautionary measures label elements

General

Prevention

P220 : KEEP AWAY FROM clothing.

P233 : Keep container tightly closed.

P240 : Ground/bond container and receiving equipment.

P243 : Take precautionary measures against static discharge.

P261 : AVOID breathing dust, fume, gas, mist, vapours, spray.

P262 : DO NOT get in eyes, on skin, or on clothing.

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.

P303+P361+P353 : IF ON SKIN (or hair): IMMEDIATELY remove/take off all contaminated clothing.
IMMEDIATELY rinse skin with water/shower.

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.

Storage

P403+P235 : Store in a well-ventilated place and keep cool.

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//SA] %	Classification (Regulation)
Sludge	-	100%	H226

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

Hazardous ingredients : No data available.
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 ON SKIN (or hair): IMMEDIATELY remove/take off all contaminated clothing. IMMEDIATELY rinse skin with water/shower. 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. 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.
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	: No data available.
Delayed effects	: No data available.
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. Take precautionary measures against static discharge. 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 : Take precautionary measures against static discharge.
for containment and for
clean-up

Secondary disaster : No data available.
prevention measures

Additional information : No data available.

7. Handling and storage

Safe handling : Keep container tightly closed. Ground/bond container and receiving equipment.
Take precautionary measures against static discharge. 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 : Store in a well-ventilated place and keep cool.

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 : No data available.
concentration

Exposure controls and Personal Protective Equipment (PPE)

Engineered controls : No data available.

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. Ground/bond container and receiving equipment.

Additional information : No data available.

9. Physical and chemical properties (whole waste mixture)

Appearance	: Black sludge
Odour	: Damp odour
Odour threshold	: No data available.
pH, concentration	: 8.2
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	: 60 °C - Flash
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 : Heat
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 : No data available.
Eye damage/irritation : No data available.
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

Additional information : Generic hazard data used above.

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 : Type 0, Prohibited Waste per GN R636 (5)(1)(c) Flammable waste with a closed cup flashpoint <61 °C. Analytical value of: 60 - Flash°C.
(1)(q)(ii) Waste with a moisture content >40% or that liberates moisture under pressure in landfill conditions, and which has not been stabilised by treatment. Analytical value of: 60 %.

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 : Future Prohibited Waste per GN R636 (5)(1)(r)(iv) >6% Total Organic Carbon (TOC). Hazardous waste with analytical value of: 74 %. (Prohibited from: Aug 2028)

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 : SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S
IATA PSN : SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S
IMO/IMDG PSN : SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S

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

UN number : 3175
Dangerous goods class (& Subsidiary) : 4.1
Packing group : PG II
Special provisions : 216 | 274
Packaging codes : 1 kg | E2 | P002 | IBC06 | PP9 | B2 | T3 | BK1 | BK2 | TP33
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 : SANS 10228:2012 The identification and classification of dangerous goods for 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 : 2022/11/21, Version: 1, Revision: -

Revision(s) : Not applicable

Summary of Mixture Hazard Classification and Categories

3 : FLAMMABLE LIQUID

Summary of Mixture Hazard Statements

H226 : Flammable liquid and vapour

Signal word : **WARNING**

Other : No data available.

Disclaimer & Use

This Safety Data Sheet (SDS) has been prepared based on information provided to the compiler and the series of physico-chemical tests conducted at the time, as well as regulations, methods and principles per the regulatory information noted in Section 15 herein. Should additional, supporting, or contrary information be identified to that which is contained herein, Talbot and the contact person noted in Section 1 must be informed immediately. The observations and recommendations made herein, and any other information or statements contained in this SDS must be applied with common sense. A precautionary, or minimum requirement, approach should be adopted in terms of all measures contained herein. This SDS is not a substitute for appropriate communication and training in terms of the hazards of the substance or mixture in question, nor the safe and legal handling, storage, transportation, and disposal. This SDS is not a toxicological study, standard operating procedure, risk assessment, license for handling, storage, transportation, or disposal of any substance or mixture, or a waste manifest. The developer of the waste pack compiler N.Hart, SDS author, and Talbot (Pty) Limited accept no liability whatsoever associated with the generation or use of this SDS or the information, observations, statements, or recommendations made herein. End of SDS.