



**forestry, fisheries  
& the environment**

Department:  
Forestry, Fisheries and the Environment  
REPUBLIC OF SOUTH AFRICA

**RISK MANAGEMENT PLAN IN TERMS OF REGULATION 10 OF THE  
WASTE EXCLUSION REGULATIONS**

	(For official use only)
File Reference Number:	12/9/11
NEAS Reference Number:	
Date Received:	

Risk Assessment for an application for exclusion of waste stream or portion of waste stream in terms of the National Environmental Management: Waste Act, 2008(Act No.59 of 2008), as amended.

**Kindly note that:**

1. This form is current as of 01 April 2021. It is the responsibility of the applicant to ascertain whether subsequent versions of the form have been published or produced by the competent authority.
2. The information must be typed within the spaces provided in the form. The sizes of the spaces provided are not necessarily indicative of the amount of information to be provided. Spaces are provided in tabular format and will extend automatically when each space is filled with typing.
3. Incomplete forms (including information as required in the application form may be returned to the applicant for revision and the inclusion of additional information.
4. Unless protected by law, all information filled in on this application will become public information on receipt by the competent authority. Any interested and affected party should be provided with the information contained in this application on request, during any stage of the application process.

<b>BACKGROUND INFORMATION</b>						
<b>APPLICANT</b>	Illovo Sugar (South Africa) (Pty) Ltd – Noodsberg Sugar Mill					
<b>CONTACT PERSON</b>	Country SHERQ Manager					
<b>NAME</b>	Shaun Ramsunder					
<b>ADDRESS</b>	PO Box 194, Durban, South Africa, 4000					
<b>E-MAIL ADDRESS</b>	<a href="mailto:SRamsunder@illovo.co.za">SRamsunder@illovo.co.za</a>					
<b>TELEPHONE</b>	031 508 4591					
<b>CELL PHONE</b>	084 554 9664					
<b>WASTE FACILITY OR FACILITIES</b>						
<b>SOURCE (S) OF WASTE</b>	The sludge is collected as the settled solids from a waste water treatment process dam. The waste water is the influent flow of all the waste liquids from the mill processes.					
<b>WASTE TO BE BENEFICIATED</b>	Sludge					
<b>GPS CO-ORDINATES AT CORNERS OF WASTE GENERATING FACILITY OR FACILITIES</b>	<b>LATITUDE</b>			<b>LONGITUDE</b>		
	29	21	7.55	30	40	58.12
	29	21	8.96	30	41	2.55
	29	21	0.61	30	41	8.18
	29	20	57.54	30	41	5.72
	29	20	55.04	30	41	0.91
<b>BENEFICIAL USE/S</b>	Soil enhancer on sugar cane farms.					
<b>WASTE GENERATING PROCESS</b>						
<b>MSDS ATTACHED IF HAZARDOUS</b>	<b>YES</b> Please refer to Annexue 1			<b>NO</b>		
<b>WASTE GENERATING FACILITY</b>	<b>HAZARDOUS</b>			<b>GENERAL</b>		

## RISK MANAGEMENT PLAN

Activity	Risk Description	Action(s) to minimise/manage the risk	Responsibility (Who is responsible to carry out the action(s))
<p><b>Context:</b> The following documents to be used in the management of the sludge:</p> <ul style="list-style-type: none"> <li>• Report accompanying the application.</li> <li>• Safety data sheet of the sludge.</li> <li>• All waste management and pollution management systems in place.</li> <li>• Illovo Group Code of Conduct and Business Ethics</li> </ul>		<ul style="list-style-type: none"> <li>• It is the responsibility of Noodsberg mill SHEQ manager to ensure all relevant staff and stakeholders that will be handling, transporting, storing, or working with the sludge waste stream, to be made aware of the safety data sheet its contents, how to read it and where to obtain it. Each party: generator, driver/owner, and recipient of the sludge, are to have the latest, legal copy of the safety data sheet.</li> <li>• Training must be held for the contents and understanding of the contents for all relevant stakeholders.</li> <li>• Noodsberg Mill must incorporate the safety data sheet into the               <ul style="list-style-type: none"> <li>○ Waste management system,</li> <li>○ Emergency management systems, and</li> <li>○ Contents into the work instructions, together with</li> <li>○ Training and include these into the</li> <li>○ Induction program.</li> </ul> </li> </ul>	<p><b>SHEQ manager and all relevant staff</b></p>
<p>Sludge removal on request</p>	<p><b>Environment:</b></p> <ul style="list-style-type: none"> <li>• Storage over time and</li> <li>• running out of dam storage space, if demand is low.</li> </ul> <p><b>Safety:</b> The Closed Cup Flash point of 60°C of the sludge hence the risk of heat source: eg:</p> <ul style="list-style-type: none"> <li>○ spark, or</li> <li>○ hot ash from the boiler stacks, or</li> <li>○ carelessness with cigarette ash etc,</li> </ul>	<ul style="list-style-type: none"> <li>• Responsible managers to ensure no pollution occurs from this waste source or is managed should there be an incident.</li> <li>• Responsible manager overseeing the distribution of the waste to the particular recipients for the administration to record this activity:               <ul style="list-style-type: none"> <li>○ The quantity of waste,</li> <li>○ The frequency of waste removal and</li> <li>○ To whom the waste is being distributed to.</li> </ul> </li> <li>• Manager to know the quantity of waste generated.</li> <li>• The monitoring of the sludge demand must match the amount of sludge that is stored.               <ul style="list-style-type: none"> <li>○ This must not build up and cause an overflow into the environment.</li> <li>○ Should there be circumstances that would reduce the</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• <b>Manager in charge of the storage area for the sludge,</b></li> <li>• <b>Manager responsible for the sludge dam.</b></li> <li>• <b>SHERQ manager.</b></li> <li>• <b>The production manager.</b></li> <li>• <b>Farmer/vehicle</b></li> <li>• <b>Workshop supervisor.</b></li> </ul>

Activity	Risk Description	Action(s) to minimise/manage the risk	Responsibility (Who is responsible to carry out the action(s))
	poses a risk due to the risk of fire	<ul style="list-style-type: none"> <li>○ removal rate of the sludge then the sludge dam level must be closely monitored to ensure this facility can cope with any overflow from the mill.</li> <li>○ Vehicle must be maintained to prevent any break-downs and down-time.</li> <li>• The farmer's removal for the product would be co-ordinated with the season that the fertilization of the fields is happening and hence be coordinated with the supply, to prevent build-up of the material.</li> </ul>	
Access to sludge storage area	<p><b>Gate security:</b></p> <ul style="list-style-type: none"> <li>• Unauthorised entry into the facility.</li> <li>• Unauthorised removal of filter cake.</li> </ul>	<ul style="list-style-type: none"> <li>• Retain security and access control at the gates.</li> <li>• Checking for correct PPE.</li> <li>• Site induction covers the safety and health risks and requirements for entering the site. Induction to be renewed every year.</li> <li>• The SDS is to be given to each farmer and worker.</li> <li>• Works instructions to include the vehicle checks.</li> <li>• Security to check no overfilled tractors when leaving.</li> </ul>	<b>Noodsberg Mill gate security</b>
Process of transferring sludge from the sludge dam area to the receiving vehicles.	<ul style="list-style-type: none"> <li>• Spillage onto area outside of protection area.</li> <li>• Splash onto personnel not authorised to be at the location.</li> <li>• Dust from low moisture/dried sludge.</li> </ul>	<ul style="list-style-type: none"> <li>• The sludge has a relatively high moisture, thus the impact from dust is minimised. However, should there be any drying out of the sludge, then dust needs to be minimised by keeping the sludge moist.</li> <li>• Ensure that only the responsible personnel needed for the activity are in the area for the duration of the transfer.</li> <li>• Ensure correct PPE is used in the area as per SDS: appropriate: <ul style="list-style-type: none"> <li>○ Clothing</li> <li>○ Footwear and</li> <li>○ Respiratory protection is worn that is appropriate to the dust that may be generated.</li> <li>○ Eye wash and safety shower station to be clearly demarcated and close by.</li> </ul> </li> <li>• Careful management of the transfer of sludge to vehicles.</li> </ul>	<b>Manager responsible for waste and operations.</b>

Activity	Risk Description	Action(s) to minimise/manage the risk	Responsibility (Who is responsible to carry out the action(s))
		<ul style="list-style-type: none"> <li>• Written procedure very clear for limit of waste load into vehicle bin or trailer, to minimise on-site and off-site spillage.</li> <li>• Clean-up of storage area with each batch of sludge or at the end of each shift.</li> <li>• Ensure the area is cleaned at the end of the working day to minimise the chance of any oil grease or other materials to contaminate the mixture.</li> <li>• Clean up any litter and other materials that can contribute to the contamination of the sludge.</li> </ul>	
Transporting of sludge by tractor and trailer to farm.	<p><b>Spillage:</b></p> <ul style="list-style-type: none"> <li>• Overfilling receiving vehicle trailer with sludge</li> <li>• Road accidents.</li> <li>• Non –compliance to the Road Traffic Act (RTA)</li> <li>• Soil contamination.</li> <li>• Affects the flora and local animals, domestic and wild as well as residents.</li> <li>• Natural water sources contamination.</li> <li>• Possible spark or source of heat from some source cause a fire.</li> </ul>	<ul style="list-style-type: none"> <li>• Ensure the driver is trained on the contents of the SDS and appropriate actions needed should an emergency arise.</li> <li>• Ensure vehicles are well maintained with service records available.</li> <li>• The condition of the vehicle is to be monitored by the onsite garage to include: <ul style="list-style-type: none"> <li>○ Regular maintenance,</li> <li>○ Driver reports for any concerns on the vehicle performance,</li> <li>○ Security gate personnel to check the vehicle condition when entering the gate.</li> </ul> </li> <li>• Should there be any incident on the public road or on farm roads, an enquiry is to take place, to investigate whether any actions are needed.</li> <li>• Illovo Noodsberg mill hotline contact number (0800) clearly seen by outside persons affected by driver conduct or any incidents.</li> <li>• The placarding is clearly visible always on the vehicle.</li> <li>• Procedure for off-loading of sludge in the designated drop-off zones.</li> <li>• The protocol to ensure the off-loading vehicle driver knows the process for minimising the impact of the vehicle on the environment after completing the off-loading..</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Noodsberg mill vehicle manager, driver supervisor, driver,</b></li> <li>• <b>Security.</b></li> </ul>

Activity	Risk Description	Action(s) to minimise/manage the risk	Responsibility (Who is responsible to carry out the action(s))
		<ul style="list-style-type: none"> <li>• Driver to contact mill to clear up any spillages that occur on public roads.</li> <li>• Have a hotline for public complaints for sludge spillage and nuisance and register these on the SHE system. Address these with the responsible owner/driver.</li> <li>• Regular training and tool-box talks for the drivers of vehicles.</li> <li>• Emergency procedures clearly outlined with issuing of the SDS for the implications of accidents and clean-up.</li> <li>• Clean-up protocols sufficient to deal with the maximum loads. <ul style="list-style-type: none"> <li>○ Including clean-ups,</li> <li>○ barriers,</li> <li>○ fires,</li> <li>○ injuries, etc.</li> </ul> </li> <li>• All outlined in the correct and updated SDS.</li> <li>• Checks for correct driver emergency equipment and training to deal with the emergency.</li> <li>• Vehicles to comply with all requirements for Road Traffic Act.</li> </ul>	
<p>Vehicle sludge off-loading on designated area.</p>	<p><b>Spillage:</b></p> <ul style="list-style-type: none"> <li>• Outside of designated area.</li> <li>• Depending on the offloading procedure, the vehicle used to offload may spill residual mixture when travelling to other places to do work.</li> </ul>	<ul style="list-style-type: none"> <li>• Ensure that the sludge is still moist to reduce the potential of windblown dust nuisance.</li> <li>• Any run-off is redirected away from any natural water source.</li> <li>• This can be prevented by ensuring the riparian zone on the water course is intact.</li> <li>• The protocol for spreading onto the soils would be the same as any commercial fertilizer and lime additives to the soil management.</li> <li>• Ensure correct and appropriate PPE is used.</li> <li>• Eye wash bottles to be available on the off-loading vehicle.</li> <li>• From a cradle to grave perspective the Mill would be responsible to ensure that no such fertiliser is offloaded or spilled in non-designated areas e.g. National road or entry point intersections or traverse areas.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Noodsberg mill agriculture and user of the sludge.</b></li> </ul>

Activity	Risk Description	Action(s) to minimise/manage the risk	Responsibility (Who is responsible to carry out the action(s))
Storage at end user facilities	<ul style="list-style-type: none"> <li>• Run off and possible windblown dust if mixture is allowed to dry.</li> <li>• Unauthorised removal of material</li> <li>• Sparks could cause the material to burn.</li> <li>• Natural biological processes causing heat build-up in the body to sludge causing internal heat build - up and then start smouldering.</li> </ul>	<ul style="list-style-type: none"> <li>• Prevent run-off contamination of natural water sources.</li> <li>• Unauthorised removal of material is minimised by the farmer's internal security service by preventing trespassing in the property.</li> <li>• The storage should not occur of this and equivalent materials. It should spread over the prepared fields and be ploughed into the soils immediately to dilute the sludge with the soil mix and thus prevent the hazard impacts and affecting the environment</li> </ul>	<p><b>Farmer.</b></p>
Sludge management during distribution onto the intended farm soil as the fertilizer/soil enhancer.	<p><b>Health:</b> There may be health impacts from working with the possibly dried sludge during the spreading of fertilizer operations.</p> <p><b>Environment:</b></p> <ul style="list-style-type: none"> <li>• Any mixture run-off from the mixture spreading operations will affect the receiving environment if not managed correctly, especially near to natural water sources.</li> <li>• The SSV1 and 2 values from the guidelines for contaminated solid require that the sludge is not used in a way that will impact natural water sources, neither near</li> </ul>	<ul style="list-style-type: none"> <li>• All staff in the field are to be supplied with the correct PPE and trained for application rates of the sludge as well as correct placement within the area of the field. This is to keep the sludge away from the possibility of run-off to cause pollution in the natural water sources.</li> <li>• The same protocols would apply as to application of commercial fertilizer onto the fields.</li> <li>• Should there be a need to off-load in a designated area, the farmer/client designates a loading zone where the sludge is off-loaded routinely.</li> <li>• The grower in turns distributes over their as soon as possible.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Farmer,</b></li> <li>• <b>Property owner,</b></li> <li>• <b>Field staff with</b></li> <li>• <b>Field supervisors:</b></li> </ul>

Activity	Risk Description	Action(s) to minimise/manage the risk	Responsibility (Who is responsible to carry out the action(s))
	informal residential areas.		
Repeat application onto the same fields.	<b>Environment:</b> The soils may have salinity build up if the soils and application are not monitored	Ensure that the work is conducted with the inputs of a qualified agronomist that the soil viability is retained, to prevent salinity build up and correct pH management, as well as other specific soil requirements to keep the crop healthy.	<ul style="list-style-type: none"> <li>• <b>Farmer,</b></li> <li>• <b>property owner,</b></li> <li>• <b>field staff with</b></li> <li>• <b>field supervisors:</b></li> </ul>
Secondary waste generation	<b>Environment:</b> Secondary waste generation would involve sludge with a other contaminant items like <ul style="list-style-type: none"> <li>• litter,</li> <li>• oils,</li> <li>• grease,</li> <li>• as well as other items</li> </ul> if the storage sites are not managed and wind-blown waste enters the sludge storage/dam..	<ul style="list-style-type: none"> <li>• The management of the sludge includes the monitoring of any:               <ul style="list-style-type: none"> <li>○ Oil,</li> <li>○ Grease,</li> <li>○ Other waste stream spillages that may contaminate the sludge waste.</li> </ul> </li> <li>• It includes the clean-up of litter.</li> <li>• Should there be a spill in the mill area: immediately isolate the spill and clean it up, together with any contaminated ash, filter cake and sludge.</li> <li>• These contaminated streams are to be isolated and managed for as per SHEQ protocol.</li> <li>• Disposal is to be safe and legal.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Noodsberg mill waste manager,</b></li> <li>• <b>SHERQ manager.</b></li> </ul>
Emergency responders		<ul style="list-style-type: none"> <li>• The SDS must be made available to these personnel, to be able to understand the requirements for their own protection and the management of any spill.</li> <li>• The drivers of the vehicles too, are to be trained in how to respond safely to any incident involving the load and who to contact in the case of any emergency.</li> <li>• The driver must know the protocol to manage the incident and who to contact:               <ul style="list-style-type: none"> <li>○ Owner,</li> <li>○ emergency responders – fire, and medical.</li> </ul> </li> <li>• First aid skill, as required at the level of the driver too.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Noodsberg mill waste manager,</b></li> <li>• <b>SHERQ manager,</b></li> <li>• <b>affected staff.</b></li> </ul>



I, SHAWN RAMSUNDER (the Applicant) hereby declare that I have read the completed Risk Management Plan form and hereby confirm that the information is, to the best of my knowledge, true and correct

Furthermore, I declare that I am fully aware of my responsibilities in terms of the Waste Exclusion Regulations, and that failure to comply with these Regulations may constitute an offence in terms of the National Environmental Management: Waste Act, 2008 (Act 59 of 2008).



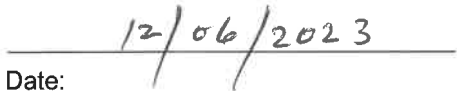
Signature of the applicant<sup>1</sup>/ Signature on behalf of the applicant:



Name of Applicant:



Designation



Date:

<sup>1</sup> If the applicant is a juristic person, a signature on behalf of the applicant is required as well as proof of such authority.

**Annexure 1:**

Safety Data Sheet

# 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: 2022/11/21. Valid until: 2027/11/20  
unless the applicable substance or mixture is altered  
Version: 1

SDS Compiler v20.09.10.05.1

**WASTE MIXTURE: SLUDGE**  
**ILLOVO NOODSBERG: SLUDGE FROM DAMS**

## 1. Identification

### GHS product identifier

Trade name(s) : ILLOVO NOODSBERG: SLUDGE FROM DAMS

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 - Noodsberg Mill

Generator address : 1 Oliver Pearce Avenue

Contact title, name : Keegan Naidoo

Phone number(s) : +27 84 805 7588

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

### Emergency contacts

Contact title, name : Keegan Naidoo

Emergency number(s) : +27 84 805 7588

After-hours number(s) : +27 84 805 7588

## 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 from dams	-	100%	H226

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

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 : Use respiratory protection 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	: Oily odour
Odour threshold	: No data available.
pH, concentration	: 7.8
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	: 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.

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 : 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.