



**environmental affairs**

Department:  
Environmental Affairs  
**REPUBLIC OF SOUTH AFRICA**

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

<b>APPLICANT</b>	Glencore Operation South Africa Pty Ltd: Lion Smelter
<b>SOURCE(S) OF WASTE</b>	Ferrochrome smelter producing slag
<b>WASTE TO BE BENEFICIATED</b>	Waste Slag from Ferrochrome Metallurgy
<b>BENEFICIAL USE/S</b>	Use as aggregates
	Concrete aggregates
	Road base and covering and road stabilisation
	Asphaltic concrete and other bituminous mixtures
	Construction fill
	Concrete products
	Plaster and granite sands
	Railroad ballast
	Roofing granules
	Filtration media
	Pipe filling material
	Backfilling
	Dam construction and stabilisation material
	Construction of drainage systems
Hydroponic filling material	

	Production of cement		
<b>MSDS ATTACHED IF HAZARDOUS</b>	<b>YES</b>	<b>NO</b> ✓	Not hazardous
<b>WASTE GENERATING FACILITY</b>	Glencore Operation South Africa Pty Ltd: Lion Smelter		
<b>PHYSICAL ADDRESS</b>	Kennedy's Vale Farm, R555		
	Steelpoort, 1133		
<b>GPS CO-ORDINATES OF WASTE GENERATING FACILITY (e.g. 60° 29' 30" Latitude; 34° 20' 15" Longitude)</b>	Latitude: 24 49 12S Longitude: 30 07 03E		
<b>POSTAL ADDRESS</b>	PO Box 218 Steelpoort		
	Steelpoort		
	1133		
<b>CONTACT PERSON</b>	Tommie Hurter		
<b>TELEPHONE</b>	<b>014 590 2415</b>	<b>CELL:</b>	
<b>EMAIL</b>	<b>tommie.hurter@glencore.co.za</b>	<b>FAX:</b>	

## RISK MANAGEMENT PLAN

Activity	Risk Description	Action(s) to minimise/ manage the risk	Responsibility (Who is responsible to do it)
Transporting of slag	Potential for slag to become air-borne during transportation	Make use of tarpaulin over slag during transportation if slag has potential to cause dust or to be thrown from the vehicle.	Transporter

Handling of slag	Potential for slag to emit dust during the loading and offloading of the slag	Slag is a heavy and dense material. The potential to cause dust is low. Take precautions to minimize dust formation by wetting of the slag when necessary.	Operator
Material storage	Potential for stockpiled material to enter the surrounding environment	The slag is stable in storage. Slag is usually consumed in large volumes for which packaging is impractical. Avoid deposition outside areas of intended use. Store in demarcated areas. Avoid storage conditions that may generate dust.  Manage storm water collected in slag stockpile areas.	Operator
Material handling and processing	Potential for slag to emit dust during handling, crushing and screening activities	Slag is a heavy and dense material. The potential to cause dust is low. Take precautions to minimize dust formation by wetting of the slag when necessary.	Operator
Material handling and processing of slag	Potential for skin exposure of humans whilst working with slag	Special attention other than routine personal hygiene not required. Wash hands with water and soap. Wear the appropriate PPE. Overalls and safety boots; gloves for hands, where applicable.	Operator
Material handling and processing of slag	Potential for eye contact exposure of humans whilst working	Eye protection should be worn were dust is a potential hazard. Safety goggles and face shield if the	Operator

		potential exists for the generation of sharp, small chips, sharp flakes or excess dust.	
Material handling and processing of slag	Potential for inhalation of dust exposure of humans whilst working with slag	Take precautions to minimize dust formation by the wetting of the product and use appropriate personal protective equipment to prevent dust inhalation	Operator
Material handling and processing of slag	Potential for ingestion of slag dust by humans whilst working with slag and not wearing PPE or washing hands	Wash out mouth with water. Wash hands thoroughly after handling.	Operator
Environmental spillage	Potential for accidental release of slag into the environment during transport and material handling	Clean slag spills immediately and remove to suitable storage area.	Transporter and operator

**DECLARATION**

I, TF Hurter hereby declare that I have read the completed Risk Management 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).

Applicant (Full names) Thomas Francois Hurter  
Designation Group Environmental Manager

Signature [Handwritten Signature]  
Date 24/8/2018 Place Rustenburg

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Date Received				
Decision Taken	Authorised		Not authorised (provide reason)	
Reference Number				