

DEPARTMENT OF ENVIRONMENTAL AFFAIRS  
 16/08/2018



**environmental affairs**

Department:  
 Environmental Affairs  
 REPUBLIC OF SOUTH AFRICA

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

<b>APPLICANT</b>	TC Smelters, a business unit of Samancor Chrome Limited
<b>SOURCE(S) OF WASTE</b>	Ferrochrome smelter producing slag
<b>WASTE TO BE BENEFICIATED</b>	Ferrochrome slag
<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>	TC Smelters, a business unit of Samancor Chrome Limited		
<b>PHYSICAL ADDRESS</b>	Buffelsfontein Farm 465 JQ, Mooinooi		
<b>GPS CO-ORDINATES OF WASTE GENERATING FACILITY (e.g. 60° 29' 30" Latitude; 34° 20' 15" Longitude)</b>	Latitude: 25°43'50.0"S		
	Longitude: 27°36'55.5"E		
<b>POSTAL ADDRESS</b>	PostNet Suite 803,		
	Private Bag X9		
	Benmore 2010		
<b>CONTACT PERSON</b>	Heather Booysen		
<b>TELEPHONE</b>	0132494407	<b>CELL:</b>	NA
<b>EMAIL</b>	Heather.booyesen@samancorcr.com	<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	Slag is a heavy and dense material. The potential to cause dust	Operator

	loading and offloading of the slag	is low. Take precautions to minimize dust formation by wetting of the slag when necessary.	
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 stormwater 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 where dust is a potential hazard. Safety goggles and face shield if the potential exists for the generation of sharp,	Operator


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

**DECLARATION**

I, A. Esbach 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) Andor Esbach  
Designation General Manager

Signature   
Date 14/08/2018 Place Mooiwoodi

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