



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

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

APPLICANT	Sasol South Africa (Ltd)		
SOURCE(S) OF WASTE	Sasolburg Operations		
WASTE TO BE BENEFICIATED	Fine Soot		
BENEFICIAL USE/S	Sasol fine soot may be beneficially utilised in the carbon and Alternative Fuels & Resources (AFR) sectors. Its uses may include but are not limited to: (a) Replacement material substitute for specialised carbon products (b) AFR		
SDS ATTACHED IF HAZARDOUS	YES X	NO	
WASTE GENERATING FACILITY	Sasolburg Operations		
PHYSICAL ADDRESS	Bergius Road, Sasolburg, 1947		
GPS CO-ORDINATES OF WASTE GENERATING FACILITY (e.g. 60° 29' 30" Latitude; 34° 20' 15" Longitude)	Cyanide plant, Midlands site 26°49'53.51"S: 27°52'03.76"E 26°49'57.08"S: 27°52'07.16"E 26°50'0.58"S: 27°52'03.60"E 26°49'57.79"S: 27°51'58.71"E 26°49'57.22"S: 27°52'03.44"E (centre point)		
POSTAL ADDRESS	P.O. Box 1 Sasolburg 1947		

CONTACT PERSON	Koos Fourie (Sasolburg Operations (SO): Senior Manager Production, Poly2,3/Cyanide)		
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RISK MANAGEMENT PLAN

Beneficial use of fine soot in the carbon and AFR sectors (Replacement material substitute for specialised carbon products & AFR.)

Activity	Risk Description	Action(s) to minimise/ manage the risk	Responsibility (Who is responsible to do it)
1. Loading of fine soot onto trucks	Loss of containment of fine soot	Preventative mitigation measure <ul style="list-style-type: none"> Dust management during loading of fine soot through wetting of fine soot Stop loading of fine soot during extreme wind conditions 	<ul style="list-style-type: none"> Fine soot generator i.e. Sasolburg Operations
		Corrective mitigation measure <ul style="list-style-type: none"> Wearing of relevant PPE (dust mask and eye protection) during fine soot loading 	<ul style="list-style-type: none"> Fine soot generator employees Fine soot transporter employees
2. Transportation of fine soot	Loss of containment of fine soot	Preventative mitigation measure <ul style="list-style-type: none"> Dust management during transportation of fine soot through covering of trucks) 	<ul style="list-style-type: none"> Fine soot transporters
		Corrective mitigation measure <ul style="list-style-type: none"> None 	
3. Off-loading of fine soot	Loss of containment of fine soot	Preventative mitigation measure <ul style="list-style-type: none"> Dust management during loading of fine soot through wetting of fine soot Stop off-loading of fine soot during extreme wind conditions 	<ul style="list-style-type: none"> Fine soot transporters Fine soot users
		Corrective mitigation measure <ul style="list-style-type: none"> Wearing of relevant PPE (dust mask and eye protection) during fine soot off-loading 	
4. Storage of fine soot	Loss of containment of fine soot	Preventative mitigation measure <ul style="list-style-type: none"> Dust management during loading of fine soot through wetting of fine soot Avoid loading of fine soot during extreme wind conditions 	<ul style="list-style-type: none"> Fine soot users
		Corrective mitigation measure <ul style="list-style-type: none"> Wearing of relevant PPE (dust mask and eye protection) when working in fine soot storage area 	
		Preventative mitigation measure <ul style="list-style-type: none"> Storage area designed to prevent rainfall run-off from carrying fine soot away Discourage excessive storage of fine soot - Facilities storing more than a 100 m³ of fine soot at a time, should have a firm impermeable surface on which to place the fine soot and a system to collect and store run-off arising from the fine soot storage facility. 	
		Corrective mitigation measure <ul style="list-style-type: none"> The use of Safety Data Sheet (SDS) with hazard classification which is provided to all fine soot users. 	

Activity	Risk Description	Action(s) to minimise/ manage the risk	Responsibility (Who is responsible to do it)
		<ul style="list-style-type: none"> Clean-up plan to be implemented where fine soot is handled 	
5. Handling of fine soot (i.e. screening, crushing, blending etc.)	Loss of containment of fine soot	<p>Preventative mitigation measure</p> <ul style="list-style-type: none"> Dust management during loading of fine soot through wetting of fine soot Adherence to production process and product standards and regulations <p>Corrective mitigation measure</p> <ul style="list-style-type: none"> Wearing of relevant PPE (dust mask and eye protection) during fine soot handling 	Fine soot users
<p>a. Replacement material substitute for specialised carbon products;</p> <p>b. AFR</p>	<p>The point at which fine soot enters the production process of carbon products to the actual products and AFR are outside the scope of this risk assessment. The incorporation of fine soot into these existing production processes is matured. The quality of the products from these processes is regulated by relevant standards.</p>		Fine soot users
6. Disposal of fine soot and fine soot containing products	Loss of containment of fine soot	<p>Preventative mitigation measure</p> <ul style="list-style-type: none"> The use of Safety Data Sheet (SDS) where disposal guidance is provided. The use of the National Norms and standard for the assessment of waste for disposal and the Regulations for the classification and management of waste. <p>Corrective mitigation measure</p> <ul style="list-style-type: none"> Clean-up plan to be implemented where fine soot is not disposed properly. 	Fine soot users
7. Residual fine soot stockpiled after closure, decommissioning or change of ownership of user facility	Loss of containment of fine soot	<p>Preventative mitigation measure</p> <ul style="list-style-type: none"> Contractual agreement with fine soot customers to include the following clause: <i>"The owner of the facility, including the subsequent owner of the facility will remain responsible for any adverse impacts on the environment and health stemming from stockpiled fine soot, even after operations have ceased."</i> <p>Corrective mitigation measure</p> <ul style="list-style-type: none"> Land remediation 	Fine soot users

DECLARATION

I, Koos Fourie 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) Eduard Hermanus Jacobus Fourie

Designation Sasolburg Operations (SO): Senior Manager Poly2,3/Cyanide

Signature 

Date 16/10/2019

Place Sasolburg



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

