



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

RISK ASSESSMENT IN TERMS OF REGULATION 8 OF THE WASTE EXCLUSION REGULATIONS

APPLICANT	Sasol South Africa (Ltd)
WASTE STREAM OR PORTION OF A WASTE STREAM	Weathered coarse ash
BENEFICIAL USE/S	Sasol Weathered coarse ash may be beneficially utilised in the construction and agricultural sectors. Its uses may include but are not limited to: (a) Brickmaking (b) Block making (c) Production of cement
WASTE GENERATING FACILITY OR FACILITIES	
PHYSICAL ADDRESS OF FACILITY OR FACILITIES	Klasie Havenga Road, Sasolburg, 1947
GPS CO-ORDINATES OF WASTE GENERATING FACILITY OR FACILITIES	Coarse Ash dump and the fine ash dam 1,2 & 3 complex 26°49'28.34"S: 27°50'11.06"E 26°49'50.27"S: 27°50'23.71"E 26°50'20.40"S: 27°50'5.04"E 26°50'8.79"S: 27°49'33.59"E 26°49'48.31"S: 27°49'28.40"E Coarse ash dump centre point: 26°50'20.50"S: 27°50'7.10"E
CONTACT PERSON	
NAME	Pieter de Beer (Sasolburg Operations (SO): Senior Manager GLUC, Utilities)
ADDRESS	P.O. Box 1 Sasolburg

	1947	
EMAIL ADDRESS	<u>Pieter.debeer@sasol.com</u>	
TELEPHONE	+27 16 960 3158 +27 82 804 024	
* DETAILED DESCRIPTION OF WASTE GENERATING PROCESS	<p><u>Past Sasolburg Operations (SO) gasification process which produced coarse ash. SO does not produce coarse anymore, and the remaining coarse ash is seen as legacy coarse ash.</u></p> <p><u>Current Sasolburg Operations (SO) process:</u> Coal is combusted at Sasolburg Operations to produce steam. The ash from the combustion process is pumped in a slurry form to the fine ash dams where it is stored and undergoes weathering.</p>	
PRODUCTION PROCESS FLOW CHART ATTACHED	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
IDENTIFICATION OF HAZARDS		
WASTE CLASSIFICATION	HAZARDOUS <input checked="" type="checkbox"/>	GENERAL <input type="checkbox"/>
IF WASTE IS HAZARDOUS LIST THE HAZARDS OF THE WASTE	Health hazards due to the presence of lime (CaO) and SiO ₂ occurring as quartz	
*A process flow chart must be attached to the process description		

RISK ASSESSEMENT WITHOUT MITIGATION

Beneficial use of weathered coarse ash in the construction and agricultural sectors (Brickmaking; Block making; Production of cement.)

Activity	Risk Description	Environmental receptors	Impact	Assessment of the risk				Significance
				Probability	Magnitude	Duration	Scale	
1. Loading of ash onto trucks	Loss of containment of ash	Air	<ul style="list-style-type: none"> Localised dust generation Air pollution 	Inherent Define: 5	Inherent Minor: 2	Inherent Immediate: 1	Inherent Site only: 1	Inherent 20, low environmental significance
2. Transportation of ash	Loss of containment of ash	Air	<ul style="list-style-type: none"> Dust generation along transportation route Air pollution 	Inherent Define: 5	Inherent Minor: 2	Inherent Intermediate: 1	Inherent Local: 2	Inherent 25, low environmental significance
		Land	<ul style="list-style-type: none"> Load of ash deposited on land in the vicinity of the road Land pollution 	Inherent Medium probability: 3	Inherent Low: 4	Inherent Short term (0 to 12 months): 2	Inherent Site only: 1	Inherent 21, low environmental significance
3. Off-loading of ash	Loss of containment of ash	Water	<ul style="list-style-type: none"> Load of ash deposited in water body in the vicinity of the road Water pollution 	Inherent Medium probability: 3	Inherent Moderate: 6	Inherent Short term (0 to 12 months): 2	Inherent Site only: 1	Inherent 27, low environmental significance
		Air	<ul style="list-style-type: none"> Localised dust generation Air pollution 	Inherent Define: 5	Inherent Minor: 2	Inherent Immediate: 1	Inherent Site only: 1	Inherent 20, low environmental significance
4. Storage of ash	Loss of containment of ash	Air	<ul style="list-style-type: none"> Localised dust generation Air pollution 	Inherent Highly probable: 4	Inherent Minor: 2	Inherent Intermediate: 1	Inherent Site only: 1	Inherent 16, low environmental significance
		Land	<ul style="list-style-type: none"> Ash carried by run-off deposited on land in the vicinity of the ash storage area Land degradation 	Inherent Medium probability: 3	Inherent Minor: 2	Inherent Short term (0 to 12 months): 2	Inherent Site only: 1	Inherent 15, low environmental significance
		Water	<ul style="list-style-type: none"> Ash carried by run-off deposited in storm water channels and water body in 	Inherent Low probability: 2	Inherent Low: 4	Inherent	Residual Local: 2	Inherent

5. Handling of ash (i.e. screening, crushing, blending etc.)	Loss of containment of ash	Air	<ul style="list-style-type: none"> Localised dust generation Air pollution 	Inherent Definite: 5	Inherent Minor: 2	Short term (0 to 12 months): 2 Inherent Immediate: 1	Inherent Site only: 1	16, low environmental significance Inherent 20, low environmental significance	
The point at which coal ash enters the production process of bricks, blocks and cement to the actual products is outside the scope of this risk assessment. The incorporation of coal ash into these existing production processes is mature. The quality of the products from these processes is regulated by relevant standards.									
6. Disposal of ash and ash containing products	Loss of containment of ash	Air	<ul style="list-style-type: none"> Localised dust generation Air pollution 	Residual: Medium probability: 3	Inherent Minor: 2	Inherent Short term (0 to 12 months): 2	Inherent Site only: 1	15, low environmental significance	
		Land	<ul style="list-style-type: none"> Load of ash disposed illegally on land Land degradation 	Inherent Medium probability: 3	Inherent Low: 4	Inherent Short term (0 to 12 months): 2	Inherent Site only: 1	Inherent 21, low environmental significance	
		Water	<ul style="list-style-type: none"> Illegally disposed ash reaching water body in the vicinity of the dumping area Water pollution 	Inherent Medium probability: 3	Inherent Low: 4	Inherent Short term (0 to 12 months): 2	Inherent Site only: 1	Inherent 21, low environmental significance	
7. Residual ash stockpiled after closure, decommissioning or change of ownership of user facility	Loss of containment of ash	Air	<ul style="list-style-type: none"> Localised dust generation Air pollution 	Inherent Medium probability: 3	Inherent Minor: 2	Inherent Immediate: 1	Inherent Site only: 1	Inherent 12, low environmental significance	
		Land	<ul style="list-style-type: none"> Ash carried by run-off deposited on land in the vicinity of the ash storage area Land degradation 	Inherent Medium probability: 3	Inherent Low: 4	Inherent Short term (0 to 12 months): 2	Inherent Site only: 1	Inherent 21, low environmental significance	
		Water	<ul style="list-style-type: none"> Ash carried by run-off deposited in storm water channels and water body in the vicinity of the ash storage area Land degradation 	Inherent Low probability: 2	Inherent Low: 4	Inherent Short term (0 to 12 months): 2	Residual: Local: 2	Inherent 16, low environmental significance	

The following factors and criteria must be used to assess the impacts of the activities:

Criteria	
MAGNITUDE (Severity)	10 - Very High 9 - High 8 - Moderate 7 - Low 6 - Minor 5 - International 4 - National 3 - Regional 2 - Local 1 - Site only 0 - None
DURATION	1 - Permanent (longer than 10 years) 2 - Long-term (5 to 10 years) 3 - Medium-term (12 months to 5 years) 4 - Short-term (0 to 12 months) 1 - Immediate
PROBABILITY (Likelihood)	5 - Definite 4 - Highly probable 3 - Medium probability 2 - Low probability 1 - Improbable 0 - None

Magnitude measures the size of the impact

Duration refers to the lifetime of the impact i.e. how long it will last

Scale refers to the extent of the impact.

Probability

The probability refers to the chance of impact to occur. The potential impact could be most likely to occur, unlikely, etc.

Assessment of Significance of Impact

Significance rating of the potential impacts illustrates the importance of the impact itself. The size of area affected by pollution may be extremely high but the significance of this effect is dependent on the concentration or level of pollution in that area. In order to determine the significance of impact, the following method was used:

$$\text{Significance Points (SP)} = (\text{Magnitude} + \text{Duration} + \text{Scale}) \times \text{Probability}$$

The values of SP are then ranged as follows:

Rating	Description
SP > 60	Indicates high environmental significance
SP 30 - 60	Indicates moderate environmental significance
SP < 30	Indicates low environmental significance
+	Positive impact

An impact which could influence the decision about whether or not to proceed with the activities regardless of any possible mitigation.

An impact or benefit which is sufficiently important to require management and which could have an influence on the decision unless it is mitigated.

Impacts with little real effect and which will not have an influence on or require modification of the activities.

An impact that is likely to result in positive consequences/effects

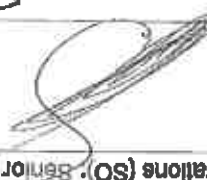
FOR OFFICE USE ONLY			
Date Received			
Decision Taken	Authorised	Not authorised (provide reason)	
Reference Number			

DECLARATION

I, Pieter de Beer 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) Pieter de Beer
 Designation Sasolburg Operations (SO): Senior Manager GLUC, Utilities

Signature 
 Date 25/09/18 Place Sasolburg

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Version 1.03

Revision Date 18.04.2018

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product Identifier

Weathered coarse ash (Secunda & Sasolburg)

Trade name

Weathered coarse ash (Secunda & Sasolburg)

Synonyms

Relevant identified uses of the substance or mixture and uses advised against

Manufacture of bricks. Other related uses.

Manufacturer or supplier's details

Sasol Chemicals, a division of Sasol South Africa (Pty) Ltd

Company

Sasol Place, 60 Katherine Street

Address

Sandton

Telephone

+27103445000

E-mail address

sasolchem.info@sasol.com

Emergency telephone number

+44 (0)1235 239 670 (Europe, Israel, Africa, Americas)

+44(0)1235 238 871 (Middle East, Arabic African countries)

+65 3158 1074 (Asia Pacific)

+86 10 5100 3038 (China)

+27 (0)17 610 4444 (South Africa)

+61 (2) 8014 4558 (Australia)

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SECTION 2: Hazards/Identification

Classification of the substance or mixture

South Africa, GHS Classification and Labelling of Chemicals - SANS 10234

Classification

Specific target organ toxicity - single exposure

Category 3

Classification

Specific target organ toxicity - repeated exposure

Category 2

Label elements

Pictogram



Signal word

Warning

Hazard statements

H373: May cause damage to organs through prolonged or repeated exposure if inhaled.
 H335: May cause respiratory irritation.

Precautionary statements

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Prevention
 P264: Wash hands thoroughly after handling.
 P280: Do not breathe dust.

Response
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove.
 Continue rinsing.
 P337 + P313: If eye irritation persists: Get medical advice/attention.
 P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P314: Get medical advice/attention if you feel unwell.

Storage
 P401: Store in accordance with local regulations.

Disposal
 P501: Dispose of contents/container in accordance with local regulations.

Other hazards
 No data available

SECTION 9: Composition/Information on ingredients

No data available

Silica

Content: < 25,00 %W/W
 CAS-No. 14808-60-7

Index-No.

EC-No. 238-678-4

Aluminium oxide

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CAS-No. 1344-28-1
Index-No.
EC-No. 215-891-8
Content: < 25,00 %/W/W

Titanium dioxide

CAS-No. 13463-67-7
Index-No.
EC-No. 236-876-5
Content: >= 1,00 - <= 2,00 %/W/W

Iron (III) oxide

CAS-No. 1308-37-1
Index-No.
EC-No. 215-168-2
Content: >= 2,00 - <= 5,00 %/W/W

Calcium oxide (CaO)

CAS-No. 1305-78-8
Index-No.
EC-No. 215-138-9
Content: < 9,00 %/W/W

Hazard statements H315 H318 H335

Manganese dioxide

CAS-No. 1313-13-9
Index-No. 025-001-00-3
EC-No. 215-202-6
Content: < 0,06 %/W/W

Magnesium oxide (MgO)

CAS-No. 1308-48-4
Index-No.
EC-No. 215-171-8
Content: < 2,50 %/W/W

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N₂O
CAS-No. 1313-59-3
Content: < 0,80 %WW
Index-No. EC-No. 215-208-9

Potassium oxide (K₂O)
CAS-No. 12136-45-7
Content: < 0,80 %WW
Index-No. EC-No. 235-227-6
Hazard statements H314

phosphorus pentoxide
CAS-No. 1314-56-3
Content: < 0,80 %WW
Index-No. 015-010-00-0
EC-No. 215-238-1
Hazard statements H314

Chromium (III) Oxide
CAS-No. 1308-38-9
Content: < 0,02 %WW
Index-No. EC-No. 215-160-9
Hazard statements H340 H350 H412

Mutts
CAS-No. 1302-83-8
Content: <= 18,00 %WW
Index-No. EC-No. 215-113-2

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Catalin	CAS-No. 13397-26-7	Index-No.	EC-No.
Content: < 1,00 %WW			
Silica	CAS-No. 7631-86-9	Index-No.	EC-No. 231-546-4
Content: < 34,00 %WW			
Sulfur trioxid, 803	CAS-No. 7446-11-9	Index-No. 016-019-00-2	EC-No. 231-197-3
Content: < 0,25 %WW			

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

Description of necessary first-aid measures

Inhalation	Do not breathe dust. If product is inhaled and irritation of the nose or coughing occurs, remove person to fresh air. If breathing is irregular or stopped, administer artificial respiration. If symptoms persist, call a physician. Seek medical attention with any breathing difficulties
Skin contact	Wash off with soap and water. If symptoms persist, call a physician.

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Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if eye irritation persists, consult a specialist.

Ingestion

Call a physician immediately.

Most important symptoms/effects, acute and delayed

Refer to SECTION 11

SECTION 5: Fighting measures

Subtle extinguishing

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

media

Special hazards arising

Non-flammable The product itself does not burn. Evacuate personnel to safe areas.

mixure

Special protective

Wear self-contained breathing apparatus for firefighting if necessary. In the event of fire and/or explosion do not breathe equipment for firefighters

fumes.

SECTION 6: Accidental release measures

Personal precautions

Avoid dust formation. Use personal protective equipment. Remove all sources of ignition.

Environmental precautions

Prevent product from entering drains. Do not contaminate

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surface water. If the product contaminates rivers and lakes or drains inform respective authorities. Do not allow material to contaminate ground water system.

Methods for cleaning up

Clean up promptly by scoop or vacuum. Shovel into suitable container for disposal. Do not create a powder cloud by using a brush or compressed air. The material taken up must be disposed of in accordance with regulations.

Reference to other sections Refer to Section 8 and 13

SECTION 7: Handling and storage

Do not breathe dust. Avoid dust formation. Wear personal protective equipment. Wet the material with water to limit dust emission or explosion risk. Avoid inhalation, ingestion and contact with skin and eyes. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Use adequate exhaust ventilation, dust collection and/or water mist to: to maintain airborne dust concentrations below permissible exposure limits. Note: respirable crystalline silica dust may be in the air without a visible dust cloud. In case of dust generation during handling, wear dust respiratory protection. THIS IS A GUIDELINE ONLY, IT REMAINS THE RESPONSIBILITY OF THE USER TO ENSURE COMPLIANCE WITH SAFETY REQUIREMENTS.

Bate handling advice

Keep away from combustible material. Keep away from open flames, hot surfaces and sources of ignition.

Advice on protection

against fire and explosion

Requirements for storage

areas and containers

Minimize dust produced during loading and unloading.



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Advice on common storage No data available

SECTION 8: Exposure controls/personal protection

Components with workplace control parameters

NATIONAL OCCUPATIONAL EXPOSURE LIMITS

Components	Type	Control parameters	Update	Basels
QUARTZ, CRYSTALLINE, RESPIRABLE DUST	TWA	0.4 mg/m ³	1995	South Africa RELS
SILICA, CRYSTALLINE, RESPIRABLE DUST	TWA	0.4 mg/m ³	1995	South Africa Control Limits
RESPIRABLE DUST				

Exposure controls

Engineering measures

Provide sufficient air exchange and/or exhaust in work rooms.

Personal protective equipment

Respiratory protection

Use appropriate dust mask.

Hand protection

Gloves suitable for permanent contact:

Material: nitrile rubber/nitrile latex

Break through time: >= 480 min

Material thickness: 0.35 mm

Gloves suitable for permanent contact:

Material: butyl-rubber

Break through time: >= 480 min

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Material thickness: 0.5 mm
gloves suitable for splash protection:
Material: natural rubber/natural latex
Break through time: >= 120 min
Material thickness: 0.5 mm
Unsuitable gloves
Material: polychloroprene

Eye protection

Safety glasses with side-shields.

Skin and body protection

Lightweight protective clothing Safety shoes.

Hygiene measures

Wash hands before breaks and immediately after handling the product. Keep away from food and drink. Avoid contact with skin, eyes and clothing.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Form	Coarse powder
State of matter	Solid
Colour	Grey black
Odour	Odourless
Odour Threshold	No data available
pH	10.7 - 12.5
Evaporation rate	No data available

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Flammability (solid, gas)	No data available
Relative vapour density	No data available
Water solubility	Not determined

SECTION 10: Stability and reactivity

Reactivity	Stable under recommended storage conditions.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None known.
Conditions to avoid	No data available
Materials to avoid	No data available
Hazardous decomposition products	No data available

SECTION 11: Toxicological information

Acute oral toxicity	No data available
Acute inhalation toxicity	Acute effects: Direct exposure to fine ash dust may cause respiratory irritation, eye irritation and potentially skin irritation. Chronic effects: Chronic exposure may cause lung damage from repeated exposure. Chronic inhalation of dusts containing respirable crystalline silica may result in silicosis.

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Acute dermal toxicity	No data available
Skin Irritation	No data available
Eye Irritation	No data available
Sensitization	No data available
Repeated dose toxicity	No data available
Carcinogenicity	No data available
Mutagenicity	No data available;
Further Information	This information is not available.

SECTION 12: Ecological Information

Toxicity to fish	No data available
Toxicity to dolphins and other aquatic invertebrates	No data available
Toxicity to algae	No data available
Toxicity to bacteria	No data available
Toxicity to fish	No data available
Chronic toxicity in aquatic invertebrates	No data available
Biodegradability	Not readily biodegradable.
Bioaccumulation	No data available

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SECTION 13. Disposal considerations

Product
Dispose of as special waste in compliance with local and national regulations. Type 3 waste to be disposed on a Class C landfill facility.

SECTION 14. Transport information

Further information
Not classified as dangerous in the meaning of transport regulations.

SECTION 15. Regulatory information

Safety, health and environmental regulations specific for the substance or mixture

Canadian Domestic Substances List (DSL) Components Not listed

Mullite

Calcite

Australian Inv. of Chem. Substances (AICS) Components Not listed

Calcite

P205

H260

Manganese Dioxide

Chromium (III) Oxide

Components Not listed

Silicon dioxide

Aluminium oxide

Titanium dioxide

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New Zealand Inventory of Chemicals (NZIC)

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Calcite
P205
Na2O
Manganese Dioxide
Chromium (III) Oxide
Components Not listed

Jap. Inv. of Expt. & New Chemicals (ENCS)

Mullite
Calcite
P205
Na2O
Manganese Dioxide
Chromium (III) Oxide
Components Not listed

Japan. Industrial Safety & Health Law (ISHL)

Mullite
Calcite
P205
Na2O
Manganese Dioxide
Chromium (III) Oxide
Components Not listed

Korea. Expiring Chemicals Inventory (KECI)

Calcite
P205
Na2O
Manganese Dioxide
Chromium (III) Oxide
Components Not listed

Philippines Inventory of Chemicals and
Chemical Substances (PICCS)

Mullite
Calcite
Components Not listed

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P205
Na2O
Manganese Dioxide
Chromium (III) Oxide

China Inv. Existing Chemical Substances
(IECSC)

Silicon dioxide
Aluminium oxide
Calcium oxide (CaO)
Iron (II) oxide
Magnesium oxide (MgO)
Titanium dioxide
Calcite
Potassium oxide (K2O)
P205
Na2O
Sulfur trioxid, SO3
Manganese Dioxide
Chromium (III) Oxide

Taiwan. Chemical Substances Inventory
(TCSI)

Silicon dioxide
Aluminium oxide
Quartz (SiO2)
Mullite
Calcium oxide (CaO)
Iron (III) oxide
Magnesium oxide (MgO)
Titanium dioxide
Calcite
Potassium oxide (K2O)

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USA TSCA Inventory

- P205
- Na2O
- Sulfur trioxid, SO3
- Manganese Dioxide
- Chromium (III) Oxide
- Components Not listed
- Calcite

SECTION 16 Other Information

Full text of H-Statements

- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H335 May cause respiratory irritation.
- H340 May cause genetic defects.
- H360 May cause cancer.
- H412 Harmful to aquatic life with long lasting effects.

All reasonable efforts were exercised to compile the SDS in accordance with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS). The SDS only provides information regarding the health, safety and environmental hazards at the date of issue, to facilitate the safe receipt, use and handling of the product in the workplace and does not replace any product information or product specifications. Since Sasol and its subsidiaries cannot anticipate or control all conditions under which this product may be handled, used and received in the workplace, it remains the obligation of each user, receiver or handler to, prior to usage, review this SDS in the context within which this product will be received, handled or used in the workplace. The user, handler or receiver must ensure that the necessary mitigating measures are in place with respect to health and safety. This does not substitute the need or requirement for any relevant risk assessments to be conducted. It further

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remains the responsibility of the receiver, handler or user to communicate such information to all relevant parties that may be involved in the receipt, use or handling of this product.
Although all reasonable efforts were exercised in the compilation of this SDS, Sasol does not expressly warrant the accuracy of, or assume any liability for incomplete information contained herein or any advice given. When this product is sold, risk passes to the purchaser in accordance with the specific terms and conditions of sale.

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