

# Confidential

## Environmental Inspection October Report

CONDUCTED ON BEHALF OF

**BULK MINING EXPLOSIVES (PTY) LTD (NAMIBIA)**  
P. O. Box 823  
SWAKOPMUND  
**ERONGO REGION**  
**- NAMIBIA**

Tel: +264 64 – 461 940  
Fax: +264 64 – 461 942

Contact person: Charl Vorster

BY

**J. CORNELISSEN**

**NATIONAL ENVIRONMENTAL HEALTH CONSULTANTS**

Reg. No. CC96/44367/23  
P.O. Box 2477  
BRITS  
0250

Tel.: 082 514 1532  
Fax: 086 515 5972



Reg. No. CC/2005/3574  
P. O. Box 8416  
SWAKOPMUND  
NAMIBIA

Tel.: 064 404 146  
Fax: 064 404 179

E-mail: [info@nehcafrica.com](mailto:info@nehcafrica.com)

Survey Date:

**29<sup>th</sup> of October 2019**

*Next survey date: 28<sup>th</sup> April 2020*

**PROJECT NO: 2019 / 131 / I**



Ministry of Labour and  
Social Welfare  
**NAMIBIA**

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**J. CORNELISSEN** (Report Writer)  
REGISTERED OCCUPATIONAL  
HYGIENIST



**NEHC CC**

E-mail:  
info@nehcafrica.com  
www.nehc.co.za



**L. CORNELISSEN** (Checked By)  
QUALITY MANAGER(ROHA)

**SOUTH AFRICA**

P. O. Box 2477  
BRITS  
0250  
Tel: +27 82 514 1532  
Fax: 086 515 5972

**NAMIBIA**  
P. O. Box 8416  
SWAKOPMUND  
NAMIBIA  
Tel: +264 64 404 146  
Fax: +264 404 179

**J. CORNELISSEN** (Technical Signatory)  
REGISTERED OCCUPATIONAL HYGIENIST  
(S.A.I.OH. Membership No.: 0159)

**04 November 2019**  
**REPORT DATE**

Date: 29 <sup>th</sup> of October 2019	Company: BULK MINING EXPLOSIVES (PTY) LTD (NAMIBIA)	Occupational Hygienist Johan Cornelissen	Project Nr: 2019/131/I
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## STATEMENT PAGE (2)

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FIELD OF INSPECTION- OHS Act REGULATED
Asbestos Regulation, Government Notice No. R 155 of 10 February 2002 Regulation: 8 Air Monitoring, Regulation 21 Demolition, Regulation 18 Maintenance of Control Measures
Lead Regulation, Government Notice No. R 236 of 28 February 2002. Regulation: 7 Air Monitoring, Regulation 14 Maintenance of Control Measures
Noise-Induced Hearing Loss Regulation, Government Notice No. R 307 of 07 March 2003. Regulation: 7 Noise Monitoring
Regulations for Hazardous Chemical Substances, Government Notice No. R 1179 of 25 August 1995. Regulation: 6 Air Monitoring, Regulation 12 Maintenance of Control Measures

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Date: 29<sup>th</sup> of October 2019

Assessment Team:

**Johan Cornelissen - Occupational Hygienist**  
National Environmental Health Consultants**Charl Vorster – Country Manager**  
**BULK MINING EXPLOSIVES (PTY) LTD (NAMIBIA)****MAIN ACTIVITIES:** Bulk Emulsion Plant and associated Magazine situated in Arandis.**INDEX**

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## Executive Summary

National Environmental Health Consultants was requested by **Mr. Charl Vorster** to conduct a walk-through Environmental Assessment on behalf of **BULK MINING EXPLOSIVES (PTY) LTD (NAMIBIA)** to assist them in complying with the statutory requirements. It follows that all the results obtained in this survey were evaluated against the standards and requirements of the said Act [(No. 7 of 2007: Environmental Management Act, 2007)], unless specifically stated otherwise.

Observations not made in this report does not infer that conditions justifying such observations were not prevalent during the assessment and were merely omitted as they did not contribute to the meaning of expressions in the report.

Please note that the inspection was done during normal day to day working conditions unless otherwise stated in the Assessment report.

The current report included the Bulk Emulsion Plant and associated Magazine of **BULK MINING EXPLOSIVES (PTY) LTD (NAMIBIA)** in Arandis.

It must be noted that due to current site operations and the staff complement on site, no major impact on the receiving environment could be noted. This may however change significantly should activities and number of employees increase.

It must also be noted that due to above mentioned situation, responsibility of current staff complement will increase to maintain high environmental standards on site.

A control and management system must be put in place to quantify:

- the actual usage of water and electricity on the existing site and
- waste management

Records must be kept of all disposals of hazardous waste.

The inspection results and other relevant information will be discussed in detail in the report.

During the assessment areas of concern were identified that require corrective action from the employer to ensure that conditions at the workplace do not affect the environment.

Please note that PDF report sent by NEHC to **BULK MINING EXPLOSIVES (PTY) LTD (NAMIBIA)** will be deemed a draft for two weeks. All changes must be lodged with NEHC within the set time period (14) fourteen days where after it will be accepted as the final approved document.

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## 1. Purpose

To reflect the results of a walk-through Environmental Inspection, in order to compare these findings with statutory requirements and to recommend corrective steps where necessary.

## 2. Introduction

National Environmental Health Consultants (NEHC) was requested by **Mr. Charl Vorster** to conduct a walk-through Environmental Inspection on behalf of **BULK MINING EXPLOSIVES (PTY) LTD (NAMIBIA)** to assist them in complying with the above requirements. It follows that all the results obtained in this assessment were evaluated against the standards and requirements of the applicable legislation, unless specifically stated otherwise.

## 3. Environmental Assessment Report

### 3.1 General

It must be noted that this is a walk-through visual assessment that was conducted on the 29<sup>th</sup> of October 2019. No in-depth study has been done. Obvious possible problem issues were addressed.

### 3.2 Site Background

#### Site Location:

**BULK MINING EXPLOSIVES (PTY) LTD (NAMIBIA) - Bulk Emulsion Plant and associated Magazine** is situated approximately 4km north-east of Arandis, Erongo Region Namibia, approximately about 60 km east of Swakopmund, off the main B2 road to Windhoek, and the national railway to Walvis Bay.

Twelve employees are currently involved in activities on site; it must be noted that due to the fact that the plant is not operating full time, staff compliment will change during actual operations. The only full-time employee will be the security company staff - day and night shift.

#### **Summary of activities in terms of Bulk Emulsion Plant and associated Magazine;**

- Two bulk silos (100 Ton) capacity – for low storage capacity and distribution.
- No disturbances after initial conception in 2012, within the site location area.
- Site is fenced off with 24-hour security.

The current site has the following infrastructure:

- Access roads to and from the site;
- Associated infrastructure;
- Water;
- Electricity;
- Sewage;
- Ablution;
- Administration;
- Fencing.

The design capacity start-up is 6,000 tonnes per annum with a capacity of manufacturing up to 18 tons of emulsions per day with a two-shift operation. With a three-shift operation,

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the plant is capable of producing 2,000 tonnes per month equalling 24,000 tonnes per annum.




**4. DEFINITIONS, ABBREVIATIONS AND ACRONYMS**


Effluent	Water that has been used for any purpose or mixed with material or waste.
EMS	Environmental Management Systems
EMSRP	Environmental Management Systems Responsible Person within a management area who has been identified by the promoter.
General waste	Waste that may be disposed of without prior treatment. May be disposed of at a municipal dumpsite.
Hazardous waste	An inorganic or organic element or compound that, because of its toxicological, physical, chemical or persistency properties may exercise detrimental, acute or chronic impacts on human health and the environment. This can be generated from a variety of activities and may take the form of liquid, sludge, gas or solid. Hazardous waste can also be defined to be any waste that directly or indirectly represents a threat to human health or to the environment by introducing one or more of the following risks: <ul style="list-style-type: none"> <li>▪ Explosion or fire</li> <li>▪ Infections, pathogens, parasites or their vectors</li> <li>▪ Chemical instability, reactions or corrosion</li> <li>▪ Acute or chronic toxicity</li> <li>▪ Cancer, mutations or birth defects</li> <li>▪ Toxicity or damage to the ecosystem or natural resources</li> <li>▪ Accumulation in biological food-chains, persistence in the environment or multiple effects.</li> </ul>
ISO	International Organisation for Standardisation
MET	Ministry of Environment and Tourism.
MSDS	Material safety data sheet
OHASA	Occupational Health & Safety Regulations "Namibia"
PPE	Personal protective equipment
Recyclable Waste	Hazardous or general waste that has the potential to be recycled.
Waste	Any matter gaseous, liquid and solid or any combination thereof designated as an undesirable or superfluous by-product, emission, residue or remainder of any process or activity.
Waste Stream	The cycle of a specific waste from the point of origin up to disposal (cradle to grave concept).
Waste to be recycled.	Hazardous or general waste that is actually being recycled.
WKI	Work instruction

**5. Inspection findings and recommendations:**

**Note: Refer to previous inspection findings dated 29<sup>th</sup> of October 2019.**

<b>Photo Nr: 1</b>	<b>Findings</b>
	<p><b>Main Gate of Site:</b></p> <ul style="list-style-type: none"> <li>• Well controlled access to site, all visitors must go through security point before entering the site.</li> <li>• Properly fenced and maintained.</li> <li>• Security officer 24 hours on site.</li> <li>• Chemical Toilet next to security check point.</li> </ul> <p><b>Risk:</b> Due to the fact that site is not active full time, only one security officer is on duty, investigate proper emergency response. Chemical toilet not maintained and cleaned regularly.</p>
	<b>Recommendations</b>
	<p><b>BULK MINING EXPLOSIVES (PTY) LTD (NAMIBIA)</b> employees must be trained in SHE matters.</p> <ul style="list-style-type: none"> <li>• Induction to all site visitors.</li> <li>• Fence should be maintained.</li> <li>• PPE requirements for site must be more visible.</li> <li>• Chemical toilet must be maintained and cleaned regularly.</li> </ul>

<p><b>Photo Nr: 2</b></p> 	<p><b>Findings</b></p> <p><b>100 Ton Silos and Pumps:</b></p> <ul style="list-style-type: none"> <li>• No Signs of spillage or pipe leaking.</li> <li>• Fire Extinguisher in place.</li> <li>• Controlled access.</li> </ul> <p><b>Risk:</b> In case of fire, emergency procedures must be site specific. Extinguisher may not work properly. Fire Hazard. Contaminating ground and underground water supply. Chemical Exposure.</p>
<p><b>Photo Nr: 3</b></p> 	<p><b>Recommendations</b></p>
<p><b>Photo Nr: 4</b></p> 	<p><b>BULK MINING EXPLOSIVES (PTY) LTD (NAMIBIA)</b> employees must be trained in SHE matters.</p> <ul style="list-style-type: none"> <li>• Induction training to <b>BULK MINING EXPLOSIVES (PTY) LTD (NAMIBIA)</b> personnel must be compulsory on a yearly basis and at employment.</li> <li>• Safe working procedures must be put in place.</li> <li>• Fuel line must be maintained to limit possible leakages.</li> <li>• Visual contaminated (Spillage Area) must be cleaned.</li> <li>• Electrical wires should be maintained and covered. (fire hazard)</li> <li>• Contaminated product can only be disposed at a dumping site allocated for hazardous materials.</li> <li>• Records must be kept of removals and disposals.</li> <li>• Emergency spillage and clean-up procedures must be put in place.</li> <li>• Emergency numbers must also be displayed and available on site.</li> <li>• Site specific emergency procedure must be tested to reflect actual response time of emergency services.</li> </ul>

<p><b>Photo Nr: 5</b></p> 	<p><b>Findings</b></p> <p><b>Fire Extinguisher:</b></p> <ul style="list-style-type: none"> <li>• Expiry date on fire extinguisher in 2020.</li> <li>• Fire extinguisher in direct contact with environmental weather conditions.</li> </ul> <p><b>Risk:</b> Extinguisher may not work properly or service time may have expired. Fire Hazard. Contaminating ground and underground water supply. Chemical Exposure. Fire Extinguisher not serviced or date may expire.</p>
	<p><b>Recommendations</b></p> <p><b>BULK MINING EXPLOSIVES (PTY) LTD (NAMIBIA)</b> employees must be trained in SHE matters.</p> <ul style="list-style-type: none"> <li>• Induction training to <b>BULK MINING EXPLOSIVES (PTY) LTD (NAMIBIA)</b> personnel must be compulsory on a yearly basis and at employment.</li> <li>• Safe working procedures must be put in place.</li> <li>• Emergency numbers must also be displayed and available on site.</li> </ul>



<b>Findings</b>	
<b>Photo Nr: 6</b>	<p><b>Waste Separation Area:</b></p> <ul style="list-style-type: none"> <li>• Good Housekeeping practices.</li> <li>• No visual signs of contamination.</li> </ul> <p><b>Risk:</b> Contaminating ground and underground water supply. Explosion / fire</p>
<b>Recommendations</b>	
<p><b>BULK MINING EXPLOSIVES (PTY) LTD (NAMIBIA)</b> employees must be trained in SHE matters.</p> <ul style="list-style-type: none"> <li>• Induction training to <b>BULK MINING EXPLOSIVES (PTY) LTD (NAMIBIA)</b> personnel must be compulsory on a yearly basis and at employment.</li> <li>• Proper signage must be put in place to identify this area as a possible fire explosive area / no smoking or open flames.</li> </ul>	



<b>Findings</b>	
<b>Photo Nr: 7</b>	<p><b>Equipment Storage Between Containers:</b></p> <ul style="list-style-type: none"> <li>• Poor Housekeeping Practices.</li> </ul> <p><b>Risk:</b> Trip and fall All outside storage areas may provide coverage for snakes and other insects (scorpions, spiders, ext.).</p>
<b>Recommendations</b>	
<p><b>BULK MINING EXPLOSIVES (PTY) LTD (NAMIBIA)</b> employees must be trained in SHE matters</p> <ul style="list-style-type: none"> <li>• Induction training to <b>BULK MINING EXPLOSIVES (PTY) LTD (NAMIBIA)</b> personnel must be compulsory on a yearly basis and at employment.</li> <li>• Regular inspections of storage areas on site.</li> <li>• Regular cleaning of all storage areas on site.</li> </ul>	



<b>Findings</b>	
<b>Photo Nr: 8</b>	<p><b>Internal Waste Storage Site:</b></p> <ul style="list-style-type: none"> <li>• Poor Housekeeping Practices. Housekeeping practises must be degraded at site.</li> <li>• Whole site properly fenced.</li> <li>• No signs of soil pollution.</li> </ul> <p><b>Risk:</b> Soil and underground water may be contaminated if uncontrolled drainage of pollutants occurs.</p>
<b>Recommendations</b>	
<p><b>BULK MINING EXPLOSIVES (PTY) LTD (NAMIBIA)</b> employees must be trained in SHE matters.</p> <ul style="list-style-type: none"> <li>• Induction training to <b>BULK MINING EXPLOSIVES (PTY) LTD (NAMIBIA)</b> personnel must be compulsory on a yearly basis and at employment.</li> <li>• Proper bunding facility must be provided and maintained.</li> <li>• All contaminated containers, equipment or actual chemical products must be stored in bunded areas.</li> <li>• Contaminated product can only be disposed at a dumping site allocated for hazardous materials.</li> </ul>	




<b>Findings</b>	
<b>Photo Nr: 9</b>	<p><b>Water Supply Tank for the Site:</b></p> <ul style="list-style-type: none"> <li>• New Water tank, not yet connected to water supply line.</li> <li>• Water tank still open on top.</li> </ul> <p><b>Risk:</b>                  Unnecessary water usage.                  Tank leakage                  Foreign objects (birds' insects) entering water tank – cross contamination of water supply to site.</p>
<b>Recommendations</b>	
<p><b>BULK MINING EXPLOSIVES (PTY) LTD (NAMIBIA)</b> employees must be trained in SHE matters.</p> <ul style="list-style-type: none"> <li>• Induction training to <b>BULK MINING EXPLOSIVES (PTY) LTD (NAMIBIA)</b> personnel must be compulsory on a yearly basis and at employment.</li> <li>• Close all openings to water tank.</li> <li>• Test water quality regularly.</li> <li>• Inspect water supply tank regularly.</li> </ul>	



<b>Findings</b>	
<b>Photo Nr: 10</b>	<p><b>General Storage Area of equipment not in use:</b></p> <ul style="list-style-type: none"> <li>• General cleanliness of this area is good.</li> <li>• No visual signs of contamination.</li> </ul> <p><b>Risk:</b>                  Fire Hazard.                  Chemical Exposure.                  Trip hazard.</p>
<b>Recommendations</b>	
<p><b>BULK MINING EXPLOSIVES (PTY) LTD (NAMIBIA)</b> employees must be trained in SHE matters.</p> <ul style="list-style-type: none"> <li>• Induction training to <b>BULK MINING EXPLOSIVES (PTY) LTD (NAMIBIA)</b> personnel must be compulsory on a yearly basis and at employment.</li> <li>• Safe working procedures must be put in place for lifting (loading and off-loading).</li> <li>• Regular inspection of this area.</li> </ul>	



<p><b>Photo Nr: 11</b></p> 	<p><b>Findings</b></p> <p><b>Chemical Toilets:</b></p> <ul style="list-style-type: none"> <li>• Chemical toilets cleaned/serviced.</li> <li>• No toilet paper.</li> </ul> <p><b>Risk:</b></p> <p>Vector breeding area. Soil and under ground water contamination. Unhygienic conditions.</p>
	<p><b>Recommendations</b></p> <p><b>BULK MINING EXPLOSIVES (PTY) LTD (NAMIBIA)</b> employees must be trained in SHE matters.</p> <ul style="list-style-type: none"> <li>• Induction training to <b>BULK MINING EXPLOSIVES (PTY) LTD (NAMIBIA)</b> personnel must be compulsory on a yearly basis and at employment.</li> <li>• Formal cleaning schedule must be put in place.</li> <li>• Vector control in regard to insects and rodents must also be implemented and maintained.</li> <li>• All chemical toilets must be on a cleaning/service program.</li> </ul>

**6 GENERAL GUIDLINES:** (note: this is a guideline only and does not imply that these impacts are not in place at **BULK MINING EXPLOSIVES (PTY) LTD (NAMIBIA)**)

**6.1 Purpose of a Waste Management Procedure:**

The purpose of WMP is to ensure that material, waste and effluent are managed responsibly from the point of creation (source) to the point of disposal. This is done by implementing the "cradle to grave" principle on all materials used at **BULK MINING EXPLOSIVES (PTY) LTD (NAMIBIA)**, minimising the consumption of resources and including waste and effluent management strategies in all operational activities. This includes:

- a) Ensuring that all products and/or services conform to environmental requirements. Identifying and separating waste and effluent at point of origin.
- b) Ensuring proper storage and storage of waste to minimise spillage.
- c) Ensuring the correct disposal of effluent and waste to minimise pollution.
- d) Minimising the cost to **BULK MINING EXPLOSIVES (PTY) LTD (NAMIBIA)** with regard to waste.
- e) Ensuring that all products and/or services conform to environmental requirements.
- f) Identifying and separating waste and effluent at point of origin.
- g) Ensuring suitable transportation of waste.
- h) Maximising recycling, reducing and reusing opportunities of waste.
- i) Ensuring proper storage and storage of waste to minimise spillage.

**6.2 Identification of Waste and Effluent Streams:**

Staff should have basic knowledge of the products/materials they use. The Material Safety Data Sheet (MSDS) of the product or substance must be consulted in the event of any uncertainty.

Effluent streams should be individually identified. The type and expected concentrations or levels of various physical, chemical, biological or other constituents must be determined, by consultation or otherwise.

- a. For identification purposes waste is divided into the following categories:
  - i. Hazardous waste.
  - ii. Hazardous waste to be recycled.
  - iii. General waste.
  - iv. General waste to be recycled.
- b. For identification purposes effluent is divided into:
  - i. Non-hazardous effluent
  - ii. Hazardous effluent.

### 6.3 Labelling and Separation of Waste:

- a. The labelling of bins must clearly identify the type of waste therein. For example separate bins for:
  - i. Glass.
  - ii. Paper.
  - iii. Recyclable metal.
  - iv. General waste:
    - Under no circumstances must waste be mixed. This prevents cross contamination of waste. This is especially not allowed for general waste and hazardous waste.

### 6.4 Environmental Management Considerations:

- a. Public Health and Safety.
- b. Compliance with legal and regulatory requirements.
- c. Real and perceived risks to the environment resulting from the organisation's activities.
- d. Impacts on the quality of life e.g. noise odours and visual intrusions.
- e. Environmental incidents and complaints.
- f. Environmental loads e.g. emissions, discharges and disposal of wastes.
- g. Consumption of resources.
- h. Sustainability.
- i. Biodiversity.
- j. Legal claims and liabilities.

### 6.5 Training, Information & Education:

- Health & Safety induction are compulsory for all new employees and contractors. Induction module is developed in order to comprehensively acquaint employees with health, safety, and environmental standards and procedures applicable to **BULK MINING EXPLOSIVES (PTY) LTD (NAMIBIA)**'s Standard.
- Right-to-Know training on general health hazards and risks must be provided on a regular basis to employees, at least once per month as per a fixed programme.
- Material safety data sheets for all the chemicals used at **BULK MINING EXPLOSIVES (PTY) LTD (NAMIBIA)** must be available on site. These Safety Data Sheets must then be regularly reviewed with personnel on safety training meetings, etc.

### 6.6 PPE Control (General Comments):

- PPE requirements must be clearly set out in the relevant **BULK MINING EXPLOSIVES (PTY) LTD (NAMIBIA)** training modules, and must also be visually indicated at the respective workstations where such PPE is required.

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- In practice, maintenance and replacement of PPE is the employees' own responsibility - supervisory personnel issue PPE on request.

**6.7 Emergency Facilities:**

- Adequate first aid and emergency stations must be provided in every area and first aiders must be appointed and trained in accordance the statutory requirements.
- Fire alarms must be placed in such a way that it is audible throughout the site.

**6.8 Medical Surveillance:**

**6.8.1 Clinical Examination:**

- Workers are all subjected to a pre-employment/pre-placement medical examination in order to determine a base line "health status" of new employees, medical examination is performed by **BULK MINING EXPLOSIVES (PTY) LTD (NAMIBIA)** at Swakopmund by Occupational Medical Practitioners.
- Formal medical examination format must be followed and records of medical surveillance must be kept on all employees of **BULK MINING EXPLOSIVES (PTY) LTD (NAMIBIA)**.

**6.8.2 Biological Monitoring:**

- It is not clear what biological monitoring is currently being performed on **BULK MINING EXPLOSIVES (PTY) LTD (NAMIBIA)** employees.

**6.9 Other Health & Safety Control Aspects:**

- Deficiencies must be noted and formal register must be kept of all these incidents, accidents or near misses.
- Chemical purchasing should be controlled by a standard **BULK MINING EXPLOSIVES (PTY) LTD (NAMIBIA)** procedure "Material Safety Data Sheets for new and trialled hazardous substances". This procedure must require that all new chemical purchases are accompanied by material safety data sheets. The following column may be use to define Substances:

The column "Rating Property of Substance":

	<i>Not Significant</i>	<i>Some Significance</i>	<i>Significant</i>
<b>Property of substance</b>	<ul style="list-style-type: none"> <li>• Non-Hazardous substances</li> <li>• Hazardous substances in quantities or in concentrations that cause or could cause little harm to the environment</li> </ul>	<ul style="list-style-type: none"> <li>• Hazardous substances in quantities or in concentrations that cause or could cause harm to the environment.</li> <li>• Very hazardous substances in quantities or in concentrations that cause or could cause little harm to the environment.</li> </ul>	<ul style="list-style-type: none"> <li>• Very hazardous substances in quantities or in concentrations that cause or could cause harm to the environment</li> </ul>

**Explanation of the terms in the "Rating Table"**

(According to SABS code of Practice 0228-1990):

Property of Substances	Rating
Dust:	
Electricity.	Not Applicable
Emissions to the Air:	
Emissions to the Air: Organic Solvents.	Hazardous
Emissions to the Air: Ozone Depleting Substances.	Very Hazardous
Hazardous Waste:	Very Hazardous

Property of Substances	Rating
Noise.	Not Applicable
Non Hazardous Materials:	Non-Hazardous
Non Hazardous Waste - Recyclable:	Non-Hazardous
Non Hazardous Waste:	Non-Hazardous
Still to be Determined.	
Waste to be Recycled:	Non-Hazardous
Waste Water:	
Class 1: Explosives:	Very Hazardous
Class 2.1: Flammable Gases:	Hazardous
Class 2.2: Non-flammable Gases:	Non-Hazardous
Class 2.3: Poisonous Gases:	Very Hazardous
Class 3: Flammable Liquids - Danger Group I:	Very Hazardous
Class 3: Flammable Liquids - Danger Group II:	Hazardous
Class 3: Flammable Liquids - Danger Group III:	Hazardous
Class 3: Flammable Liquids - Danger Group IV:	Non-Hazardous
Class 4: Flammable Solids:	Very Hazardous
Class 5.1: Oxidizing agents:	Very Hazardous
Class 5.2: Organic Peroxides:	Very Hazardous
Class 6.1: Poisonous Substances - Danger Group I:	Very Hazardous
Class 6.1: Poisonous Substances - Danger Group II:	Very Hazardous
Class 6.1: Poisonous Substances - Danger Group III:	Hazardous
Class 6.1: Poisonous Substances - Danger Group IV:	Hazardous
Class 6.2: Infectious Substances:	Hazardous
Class 7: Radioactive Substances:	Very Hazardous
Class 8: Corrosives:	Hazardous
Class 9: Miscellaneous - Aqua Toxic Substances:	Very Hazardous
Class 9: Miscellaneous - Carcinogenic Substances:	Very Hazardous
Class 9: Miscellaneous-Ozone Depleting Substances:	Very Hazardous

#### 6.10 Other Health and Safety aspects - Specific remarks, examples and exemptions:

- Fumes from welding and electroplating activities must be rated as “*Some Significance*” (In the column “Description Physical Significance” you write down: “Very Hazardous but in quantity and concentration not harmful to the environment”)

Date: 29 <sup>th</sup> of October 2019	Company: BULK MINING EXPLOSIVES (PTY) LTD (NAMIBIA)	Occupational Hygienist Johan Cornelissen	Project Nr: 2019/131/I
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# ATTACHMENT A

## Certificate

Date: 29 <sup>th</sup> of October 2019	Company: BULK MINING EXPLOSIVES (PTY) LTD (NAMIBIA)	Occupational Hygienist Johan Cornelissen	Project Nr: 2019/131/I
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## The Southern African Institute for Occupational Hygiene

This is to certify that

**Johan Cornelissen J**

**ID Number: 6504085019086**

Has satisfied the requirements of  
the Constitution of the Institute  
and on recommendation of the Professional Certification Committee  
is registered as an

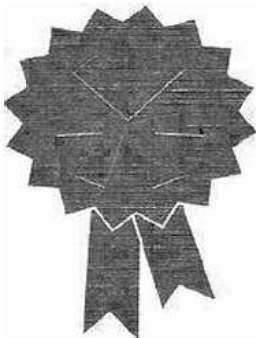
**Occupational Hygienist (OH)**

**Member Number: 0159**

*Valid until: 31 January 2020*

Mr Sean Chester

Chairman: Professional Certification Committee



Member ID: 33914526

Certificate ID: 33914526-16544

Issued by the Southern African Institute for Occupational

Hygiene

SAQA Professional Body ID: 844

**IOHA Recognised  
Certification Scheme**



Date:  
29<sup>th</sup> of October 2019

Company:  
BULK MINING EXPLOSIVES (PTY) LTD  
(NAMIBIA)

Occupational Hygienist  
Johan Cornelissen

Project Nr:  
2019/131/I





## The Southern African Institute for Occupational Hygiene

This is to certify that

**Leonie Cornelissen**

ID Number: 6604070086189

Has satisfied the requirements of  
the Constitution of the Institute  
and on recommendation of the Professionals Certification Committee  
is registered as an

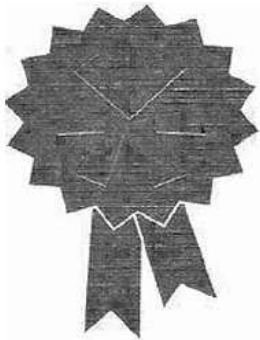
**Occupational Hygiene Assistant (OHA)**

Member Number: 1447

Valid until: 31 January 2020

Mr Sean Chester

Chairman: Professional Certification Committee



Member ID: 37713448

Certificate ID: 37713448-16545

Issued by the Southern African Institute for Occupational

Hygiene

SAQA Professional Body ID: 844

IOHA Recognised  
Certification Scheme



Date:  
29<sup>th</sup> of October 2019

Company:  
BULK MINING EXPLOSIVES (PTY) LTD  
(NAMIBIA)

Occupational Hygienist  
Johan Cornelissen

Project Nr:  
2019/131/I



REPUBLIC OF NAMIBIA

**MINISTRY OF LABOUR, INDUSTRIAL RELATIONS AND EMPLOYMENT CREATION**

Tel: +264 61 206 6111

Fax: +264 61 212 323

Enquiries Mr. J. Shihopo ..... Email: Johannes.shihopo@mol.gov.na

Our Ref: 11/18 ..... Your Ref: 18/67 .....

Private Bag 19005

32 Mercedes Street,

Khomasdal

WINDHOEK, Namibia

**Certificate of Registration as an Approved Inspection Authority**

*In terms of Regulation 18 of the Regulations relating to Health and Safety of Employees at work made under  
Schedule 1(2) of the Labour Act, 2007(Act 11 of 2007)*

Authorization Number: **A.I.A. 18/67**

This is to certify that: **National Environmental Health Consultants CC  
P.O. Box 8416  
Swakopmund**

*Has been approved as an Inspection Authority*

Approved competencies	Name of the <u>only</u> person who is deemed competent to render the approved services
Occupational Hygiene, Noise, Dust, Illumination, Temperature, Stress, Ventilation, Ergonomics, Lead, Asbestos, Radiation, Vibration and Biological Monitoring Training ISO 9001, 14001 and OHSAS 18001 Implementation, OSHE Training and Audiometric	Johan Cornelissen (ID No: 6504085019086)

**From: 06 November 2018 – 06 November 2019**

Chief Inspector:   
**Mr. S. Kapeng**



All official correspondence must be addressed to the Permanent Secretary

Date: 29 <sup>th</sup> of October 2019	Company: BULK MINING EXPLOSIVES (PTY) LTD (NAMIBIA)	Occupational Hygienist Johan Cornelissen	Project Nr: 2019/131/I
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