

**DUKATHOLE BRICKWORKS, REMAINING EXTENT OF
THE FARM ADANJA 174, QUEENSTOWN
EASTERN CAPE PROVINCE**

**ENVIRONMENTAL PERFORMANCE
ASSESSMENT REPORT**

**PERIOD APPLICABLE TO PERFORMANCE
ASSESSMENT**

MARCH 2021

Prepared For:

Dukathole Brickworks cc

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1. PROJECT DETAIL

Site Name:	Dukathole Brickworks Queenstown	Date of Commencement:	October 2012
Environmental Control Officer:	Gerhard Botha - inspection	Inspection Date:	9 March 2020
Environmental Control Officer:	Murchellin Saal – Report	Inspection By:	Gerhard Botha
Other Authorisations:	Water Use Licence: 27/2/2/S131/2	Report Number:	14

2. LOCATION

Site Location:	Dukathole Brickworks is located ±4 km west of Queenstown along the N6. The site is situated on a portion of the remainder of the farm Adanja 174.	
Site Coordinates of the brickworks:	A -31.897493°	26.819836°
	B -31.897851°	26.820829°
	C -31.896879°	26.821164°
	D -31.896839°	26.822221°
	E -31.895001°	26.821031°
	F -31.895310°	26.820487°
	G -31.895719°	26.819837°

3. DETAIL OF AUDITOR

(APPENDIX 7 SUB-REGULATION 3(A) & (B))

ECO:	Murchellin Saal
EXPERTISE:	Mrs. MD Saal has 9 years of experience in environmental legal compliance audits, (GIS) geographic information system, mining right and permit applications and applications for environmental authorisations & Water use applications.
DECLARATION OF INDEPENDENCE:	<p>I Murchellin Saal declare that –</p> <ul style="list-style-type: none"> • I act as independent environmental control officer in this compliance audit; • I will perform the work relating to the audit in an objective manner, even if the results and findings are not favourable to the holder of the authorisation; • I have expertise in conducting environmental compliance audits, including knowledge of the Act and regulations that have relevance to the activity; • I will adhere to and comply with all responsibilities as indicated in the National Environmental Management Act and Environmental Impact Assessment Regulations.

	<ul style="list-style-type: none"> I do not have and will not have any vested interest in the activity other than remuneration for work performed in terms of the Environmental Impact Assessment Regulations, 2014 (as amended 2017). <p style="text-align: center;"><i>M. Sed.</i></p> <p>Signature of ECO Date: 15 March 2021</p>
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4. ASSUMPTIONS, UNCERTAINTIES OR GAPS IN KNOWLEDGE
(APPENDIX 7 SUB-REGULATION 3(F))

The assumptions made in this document, stem from specific information gathered during the site audit and background information gathered from site management. No uncertainties or gaps in knowledge could be identified that is applicable during this audit period.

5. PROJECT DESCRIPTION

Dukathole Brickworks CC operates a brick manufacturing facility on the above mentioned property. Cement bricks and lintels are made from raw material received and stockpiled at the site. Once dry the bricks are covered with wrapping plastic, stacked, loaded and transported to the clients.

6. SITE CONDITIONS

Dry windy conditions

7. SCOPE & PURPOSE OF ENVIRONMENTAL AUDIT
(APPENDIX 7 SUB-REGULATION 3(C))

This environmental audit report was compiled in terms of the requirements of the NEMA EIA Regulations, 2014 (as amended 2017).

OBJECTIVE:

The objective of the environmental performance assessment (EPA) is to evaluate compliance of the operational activities with legislation and general good practice with regard to the environment.

INSPECTED AREAS:

The inspection included an assessment of the following areas:

- Stockpile areas;

- Diesel depot;
- Brick making area;
- Parking area;
- Site office and workshop area;
- Designated eating area;
- Ablution facilities;
- Dam for water abstraction.

In order to establish the environmental compliance assessment of the operation, the site was inspected on foot by the Environmental Control Officer, Gerhard Botha, of Greenmined Environmental (Pty) Ltd accompanied by site management. The report was compiled by Murchellin Saal.

8. NON-COMPLIANCE ISSUED

Non-compliance Date:	No non-compliances were issued during the audit period.
Incident:	
When addressed:	
How addressed:	

9. ADOPTED METHODOLOGY

(APPENDIX 7 SUB-REGULATION 3(D):

COMPLIANCE SCORE	DESCRIPTION
1	Task not achieved
2	Task 20% achieved
3	Task 50% achieved
4	Task 80% achieved
5	Task 100% achieved in accordance with the EMP

NON-COMPLIANCE SCORE	DESCRIPTION
1	LOW – Mitigation not needed / mitigation measures to be maintained
2	MEDIUM – Mitigation should be considered
3	HIGH – Mitigation compulsory

10. INSPECTION ASPECTS

DESCRIPTION	COMPLIANCE SCORE	NON-COMPLIANCE SCORE	STATUS	COMMENTS
LEGISLATION COMPLIANCE:				
National Water Act, (Act No 36 of 1998)	5	-	Compliant	<ul style="list-style-type: none"> The site has a general authorisation issued by DWS for the use of 1 200 m³/a. Reference number: 27/2/2/S631/2 An application for 10 512 m³/a from borehole 1 has been submitted and is being assessed by DWS.
Copy of water use authorisation available on site	5	-	Compliant	-
National Environmental Management Act, 1998 (Act No 107 of 1998) and the Environmental Impact Assessment Regulations, 2010	N/A	-	-	The current actions on site do not trigger listed activities in terms of NEMA. An EMP has however been compiled for the site.
Copy of the EA and EMP available on site	N/A	-	-	A copy of the EMP is on site.
National Environmental Management: Air Quality Act, 2004 (Act No 39 of 2004)	5	-	Compliant	The operations at the site do not trigger the AQA.
National Environmental Management: Waste Act, 2008 (Act No 59 of 2008)	5	-	Compliant	No waste are treated or disposed of on the property.
National Environmental Management: Biodiversity Act, 2004 (Act No 10 of 2004) (NEM:BA)	5	-	Compliant	The project does not trigger the NEM:BA, 2004 and no listed weeds/invader plants were noted at the brickmaking yard.
TOPSOIL MANAGEMENT:				
Topsoil stripping	N/A	-	-	No new areas were opened from the last inspection; therefore no topsoil stripping was needed.
Topsoil storage (heaps not exceeding 2m)	N/A	-	-	No topsoil has been stripped that can be stored.
Topsoil heaps older than 6 months vegetated	N/A	-	-	No topsoil heaps present on site.
VEGETATION:				
Protected plants sheltered from activities	N/A	-	-	No protected plants are present within the boundaries of the brickworks.
Riparian vegetation protected	N/A	-	-	The site does not have any riparian vegetation as no stream flows through or at the site.
Aliens & weeds controlled on site	5	-	Compliant	No listed weeds/invader plants were noted on site that had to be removed.

DESCRIPTION	COMPLIANCE SCORE	NON-COMPLIANCE SCORE	STATUS	COMMENTS
Vegetation surrounding the site protected against looting.	5	-	Compliant	-
FAUNA:				
All animals, birds and reptiles protected on site	5	-	Compliant	-
AIR QUALITY AND NOISE:				
Dust suppression implemented	5	-	Compliant	Dust levels during the inspection were quite high at the time of the inspection, exaggerated by the dry windy conditions experienced at the time of the inspection. We were informed that the wet the area and grade/scrape the area where the fine dust that has settled on the surface is removed, avoiding these particles from being picked up by the wind and contributing to the dust levels
Monthly dust monitoring implemented	5	-	Compliant	Previous filtering collected which will be sent for analysis. New buckets were already put up for March 2021.
Dust monitoring equipment operational	5	-	Compliant	The dust monitoring equipment were in place at the time of the inspection.
Noise control	5	-	Compliant	-
Equipment serviced regularly to ensure noise emissions are minimized	5	-	Compliant	-
SURFACE WATER:				
Storm water diverted around the work area and access roads to prevent erosion	5	-	Compliant	No signs of erosion at the work area were noted during the site inspection.
VISUAL EXPOSURE:				
Do site management implement good visual and housekeeping standards	5	-	Compliant	Major improvement in terms of the general appearance of the facility and the implementation of good visual and housekeeping standards.
BRICKWORKS ACTIVITIES:				
MANAGEMENT OF FUEL AND HAZARDOUS PRODUCTS:				
Hazardous material stored within a bunded area (110% capacity)	5	-	Compliant	The crack in the bund wall of the diesel tank was repaired and the bund wall sealed.

DESCRIPTION	COMPLIANCE SCORE	NON-COMPLIANCE SCORE	STATUS	COMMENTS
MSDS available on site	5	-	Compliant	Client provided a list of chemicals used on-site and the MSDS's (Included in photo report).
Management of fuel and oil spills	5	-	Compliant	No hydrocarbon spills were seen at the time of the inspection.
Drip trays present when hazardous chemicals are used outside the workshop area	5	-	Compliant	-
Drip trays properly managed and cleaned	5	-	Compliant	-
Site equipment mechanically sound without visible oil leaks	5	-	Compliant	This appeared to be true at the time of the inspection.
Sump and oil separator operational	N/A	-	-	According to site management the current wash bay of the site is no longer in use. Management is in the process of building a new workshop with a new wash bay and associated oil sump.
WASTE MANAGEMENT:				
Site free of day-to-day litter	5	-	Compliant	Housekeeping was very good at the time of inspection.
General waste dumped at a recognised landfill site	5	-	Compliant	-
Hazardous waste removed by a registered waste handling contractor	5	-	Compliant	Oilkol removes the used oil from site.
Waste consumption monitoring implemented	1	3	To be addressed	It is proposed that waste registers are used on site.
POTABLE WATER AND ABLUTION FACILITIES:				
Ablution facilities available on site more than 200m from a watercourse	5	-	Compliant	-
Potable water available on site for use of workers	5	-	Compliant	-
Effluent water from the camp washing facility disposed of in a French drain, situated more than 200m from a watercourse	5	-	Compliant	-
FIRE MANAGEMENT:				
Firefighting equipment available on-site	5	-	Compliant	-
No open fires allowed on site	5	-	Compliant	-

SITE AND EQUIPMENT MANAGEMENT:				
Boundary of the work area demarcated with visible beacons	5	-	Compliant	The work area is fenced.
Site operational within hours as stipulated in the EMP	5	-	Compliant	The site only operates during daylight hours.
Demarcation of work areas	5	-	Compliant	-
ACCESS ROADS, VEHICLES AND TRANSPORTING OF MATERIAL:				
Access road maintained	5	-	Compliant	The access road to the site is in a good condition.
All earth-moving equipment & vehicles operating within site boundaries preventing crisscrossing	5	-	Compliant	-
Vehicle repairs only conducted in service bay area, and waste products disposed of in containers/bins	5	-	Compliant	-
Speed limit enforced within the boundaries of the site	5	-	Compliant	-
EMPLOYEE AND SAFETY MANAGEMENT:				
Workers inducted and informed of EMP conditions	5	-	Compliant	-
Workers provided with PPE	5	-	Compliant	-
Are there signs present, indicating the work site and speed restrictions	5	-	Compliant	-

**11. COMMENTS OR COMPLAINTS RECEIVED FROM I&AP'S
(APPENDIX 7 SUB-REGULATION 3(G) & (J)):**

No written complaints applicable to the brickmaking operation were received during the audit period.

12. GENERAL REPORT

Compliance of the brickworks with the site specific environmental management plan was reviewed during the site assessment. The operation recorded a compliance score of 98% for the month of March 2021.

At the time of the inspection the overall appearance of the site was neat.

The following matters were noted/discussed on site:

All chemicals are stored inside the warehouse only to be removed on the day it will be used. The used oil tanker was emptied and is surrounded by a proper sealed bund wall. Site management is in the process of constructing a new workshop that will also have a new wash bay and associated oil sump. According to site management the current wash bay is no longer in use.


From the previous report, it appears that there has been an improvement in terms of the general appearance of the facility and the implementation of good visual and housekeeping standards. The client is encouraged to keep the standard.

The bund wall of the diesel tank was repaired and sealed.

Good process was made with the rehabilitation of the adjacent area east of the brickworks. A contractor is in the process of removing the building rubble from site and levelling the area. As discussed, site management must take care of weeds/invader plants that may germinate on the reinstated area during spring time. It was proposed that the area be seeded with a locally adapted grass mix to promote the establishment of a grass layer and lessen the potential of the area becoming infested with weeds/invader plants.

Site management compiled a list of all the chemicals used on site and the MSDS's of each chemical must be obtained and kept on site. This is included in the photo report.

The site was instructed to implement the use of waste registers to keep track of all the waste generated at, and disposed of from the site. It is proposed that a general-, and hazardous waste register is used, in which each load of waste leaving the site is noted and the proof of safe disposal is filed. However, this is still not implemented and the site is encouraged to enforce this as a matter of urgency.

- MATTERS TO BE ADDRESSED:**
-  Implement the use of waste registered on site.
 -  Upkeep of housekeeping;

**ABILITY OF EMPR TO ADEQUATELY MANAGE OR MITIGATE ENVIRONMENTAL IMPACTS
(APPENDIX 7 SUB-REGULATION 3(E)):**

The EMPR does have the ability to adequately manage and mitigate the environmental impacts on the activities on site.

NEED FOR AMENDMENT OF THE EMPR:

EMPR does not need to be amended at this stage but needs to be implemented on site.

13. ECO SIGNATURE

NAME:	SIGNATURE:	DATE:
Murchellin Saal		15 March 2021

14. PHOTOGRAPHS:



Chemicals removed from the workshop prior to it being used the same day



Used oil tank



Brickmaking yard



Crushing plant fitted with sprayers



New workshop area



Area being rehabilitated



Lintel area

Bund wall repaired and sealed







Brickmaking yard



Dam



Dust monitoring unit

List of chemicals used on-site and the MSDS's

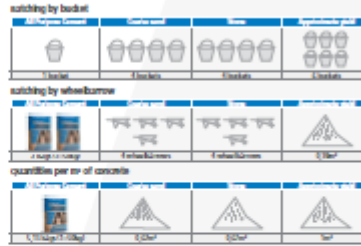
AFRISAM

AfriSam All Purpose Cement

Mixes for concrete

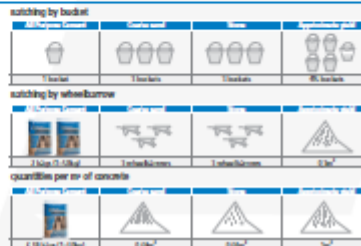
Low-strength concrete

10-15MPa (nominal at 28 days)
 Suitable for unreinforced foundations for single-storey houses and free-standing walls. Allow an additional 10% of required quantities for wastage.
 2 bags = 1 wheelbarrow



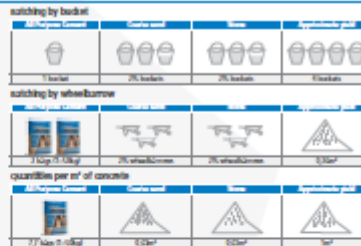
Medium-strength concrete

15-25MPa (nominal at 28 days)
 Suitable for reinforced foundations and slabs, light-duty house floors, paths, patios, steps, driveways and garage floors. Allow an additional 10% of required quantities for wastage.
 2 bags = 1 wheelbarrow



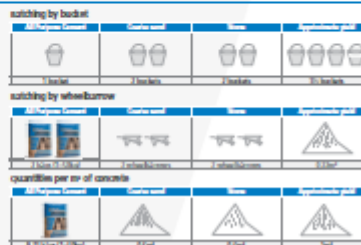
High-strength concrete

25-30MPa (nominal at 28 days)
 Suitable for suspended structural beams and slabs, precast items such as flagstones and heavy-duty floors such as workshop floors. Allow an additional 10% of required quantities for wastage.
 2 bags = 1 wheelbarrow



Ultra high-strength concrete

45MPa (nominal at 28 days)
 Suitable for suspended structural beams and slabs, columns and water-retaining structures. Allow an additional 10% of required quantities for wastage.
 2 bags = 1 wheelbarrow



CHRYSO® CI Corrosion Inhibiting Concrete Admixture

Technical data sheet
CHRYSO® CI
Corrosion Inhibiting Concrete Admixture



Description

CHRYSO® CI is based on Calcium Nitrite, which interacts with the structural steel in concrete to prevent chloride attack.

CHRYSO® CI reacts chemically with steel to maintain a passivating layer when chlorides penetrate the concrete, significantly delaying the rate of corrosion.

Advantages

- Ready to use.
- Compatible with all portland and pozzolanic cements.
- Compatible with CHRYSO plasticisers, retarders, superplasticisers, air entraining agents and other admixtures.

Application guidelines

Use

- Concrete structures
- Below ground structures where saline water is present
- Bridge decks
- Pre-stressed concrete

Dosage

- The optimum dosage of CHRYSO® CI can only be established by using trial tests, taking into account local conditions affecting the workability of the fresh mix and the mechanical properties required of the concrete.

Physical and chemical properties

- Physical state: liquid
- Colour: light yellow
- Specific gravity (25°C): 1.240 (±0.01)
- pH: 10
- Viscosity: 10 secs (ford # 4 cup)

- Typical range: 10-30 g/m³

Dispensing/mixing

- CHRYSO® CI should be added to the mix during the batching process via an automated dispensing system.
- The concrete mix design should take into consideration the water available in CHRYSO® CI.
- To obtain the best results all admixtures should be dispensed separately.

Precautions

- Overdosing may result in increased workability and possible reduction in setting time.

Storage

- CHRYSO® ZA 1251 has a shelf life of 12 months starting from the manufacturing date - provided no other chemicals are added to it.
- The product should be stored away from the rain and frost in clean, dry tanks.

CHRYSO Southern Africa (Pty) Ltd
Gauteng (head office): 26 Malcolm Moodie, Crescent, Jet Park
Durban factory: 0861 CHRYSO | T: +27(0)11 295 9700 | F: +27(0)11 297 6644 | W: za.chryso.com



DEGREASER - SASOL



Safety Data Sheet

Solvent Degreaser

Version 1.00

Revision Date 07.10.2019

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

Product identifier	Solvent Degreaser
Trade name	Solvent Degreaser
Synonyms	Detergent, Degreaser
Relevant identified uses of the substance or mixture and uses advised against	
Use	Cleaning agent
Manufacturer or supplier's details	
Company	Sasol Oil Pty (Ltd)
Address	Sasol Place, 50 Katherine Street Sandton 2090 South Africa
Telephone	+27860335444
E-mail address	sasolchem.info.sa@sasol.com
Emergency telephone number	+44 (0)1235 239 670 (Europe, Israel, Africa, Americas) +44(0)1235 239 671 (Middle East, Arabic African countries) +65 3158 1074 (Asia Pacific) +86 10 5100 3039 (China) +27 (0)17 610 4444 (South Africa) +61 (2) 8014 4558 (Australia)

SECTION 2. Hazards identification

Classification of the substance or mixture

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

Classification	Flammable liquids	Category 3
Label elements		

Print Date 07.10.2019

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ENGEN DYNAMIC DIESEL 0.05

Engen Dynamic Diesel 0.05



SAFETY DATA SHEET

Revision Date : 12.11.2014

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Engen Dynamic Diesel 0.05
 Chemical name : Diesel fuel
 Synonyms : Hydrocarbon Liquid
 Product use : Automotive diesel fuel
 UN number : 1202

Supplier : Engen Petroleum Limited (Tel: +27 (0) 21 403 4911, a/h: +27 (0) 21 403 4099)
 Health Emergency Telephone : +27 (0) 21 689 5227 (Red Cross Poison Service)
 Transport Emergency Telephone : +27 (0) 11 975 1278/83 (Hazchemwise)
 Customer Service Centre : 0860 036 436 (Sales and Technical Information)
 Engen Website : <http://www.engen.co.za/>

2. HAZARDS IDENTIFICATION

Emergency response data : Light Amber Liquid. Flammable. Product can accumulate a static charge and release vapours which may cause a fire or explosion. DOT ERG No. : 128

GHS Classification:

Health
 Acute inhalation toxicity Hazard category 3. Toxic if inhaled. Danger
 Acute oral toxicity Hazard category 5. May be harmful if swallowed. Warning
 Skin Irritation Hazard category 2. Causes skin irritation. Warning
 Eye Irritation Hazard category 2B. Irritant. Warning
 Carcinogenicity Hazard category 2. Under conditions of poor hygiene and long term exposure, this product should be considered a human carcinogen. Warning

Environmental
 Aquatic toxicity : Hazard category 2. May cause long-term adverse effects in the aquatic environment. Warning

Physical
 Flammability : Hazard category 3. Flammable liquid and vapour. Warning

GHS Labels/Pictograms:



Hazard Statements

Flammable liquid and vapour. Fumes from heated product may cause eye and lung irritation. Toxic if swallowed. Harmful in contact with skin.

Note: This product may contain polycyclic aromatic hydrocarbons, some of which have been reported to cause skin cancer in humans under conditions of poor personal hygiene, prolonged repeated contact, and exposure to sunlight.

ENGINE OIL - SASOL



Safety Data Sheet

Engine Oil Multigrade RI4 15W-40

Version 1.00

Revision Date 31.07.2019

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

Product identifier	Engine Oil Multigrade RI4 15W-40
Trade name	Engine Oil Multigrade RI4 15W-40
Synonyms	Engine Oil, Multigrade Engine oil
Relevant identified uses of the substance or mixture and uses advised against	
Use	Lubricant or lubricant additive
Uses advised against	No data available
Manufacturer or supplier's details	
Company	Sasol Oil Pty (Ltd)
Address	Sasol Place, 50 Katherine Street Sandton 2090 South Africa
Telephone	+27860335444
E-mail address	sasolchem.info.sa@sasol.com
Emergency telephone number	+44 (0)1235 239 670 (Europe, Israel, Africa, Americas) +44(0)1235 239 671 (Middle East, Arabic African countries) +65 3158 1074 (Asia Pacific) +86 10 5100 3039 (China) +27 (0)17 610 4444 (South Africa) +61 (2) 8014 4558 (Australia)

SECTION 2. Hazards identification

Classification of the substance or mixture

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

Classification This substance or mixture is not classified as hazardous according to GHS.

Print Date 31.07.2019

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HAND CLEANER – AGRI LAND



www.ssk.co.za

MATERIAL SAFETY DATA SHEET

Agriland Grit Hand Cleaner Cherry
An industrial hand cleaner with abrasives

COMPANY DETAILS

Distributor's Name: SSK
Address: Industry Road
Mossel Bay
6500
Tel: (044) 601 1200
Fax: (044) 696 1243
Emergency Phone Number: (044) 601 1200

1. PRODUCT NAME:

Trade Name: Agriland Grit Hand Cleaner
Product Code: TR-GRITC
Synonyms: Industrial hand cleaner

2. COMPOSITION:

Hazardous components in concentrate form:
Triethanolamine CAS# 102-76-1
Oleic acid CAS# 112-80-1
Sodium Hydroxide CAS# 1310-73-2
R Phrases: 22, 36

3. HAZARDS IDENTIFICATION:


Main hazard: Eyes, ingestion
Flammability: Not flammable
Reproduction hazard: Nil
Health effects: Eyes: minor irritant
Skin: None
Ingestion: Possible nausea and or stomach cramps
Inhalation: None
Carcinogenicity: Nil
Mutagenicity: Nil
Neurotoxicity: Nil

4. FIRST AID MEASURES:

Eyes: Irritant, flush eyes with wash. Seek medical help
Skin: Wash with water.
Ingestion: Drink milk and seek medical help.
Inhalation: Remove to fresh air.

Distributed by SSK: Industry Road, Mossel Bay, 6500 + Tel: 044 601 1200

HI-FORCE HYDROLIC ACID

		Safety Data sheet (MSDS) for HFO32 and HFO46 Hydraulic oil		TDS:- 1428
Prepared by:-		Approved by:-	Marlin Davies	Date: 07-05-17
REV NO:-	001			
ECO:-	4476			

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT

Product Name: HYDRAULIC OILS
 Product Description: Hydrocarbon Base Oils and Additives
 Product Code: 2000 Series
 Intended Use: Compressor / Hydraulic / Industrial Gear & Machine oils / Circulating oils

COMPANY IDENTIFICATION

Supplier: HI-FORCE LIMITED
 PROSPECT WAY
 DAVENTRY
 NORTHANTS
 NN11 8PL
 UNITED KINGDOM

Tel: +44 1327 301000. Fax: +44 1327 708656
 Email: daventry@hi-force.com Web: www.hi-force.com

SECTION 2 HAZARDS IDENTIFICATION

This material is not considered to be hazardous according to regulatory guidelines see Section 15.

HEALTH HAZARDS

Low order of toxicity. Excessive exposure may result in eye, skin, or respiratory irritation. High-pressure injection under skin may cause serious damage.

Note: This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

No Reportable Hazardous Substance(s) or Complex Substance(s).

SECTION 4 FIRST AID MEASURES

INHALATION

Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.

SKIN CONTACT

Wash contact areas with soap and water. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency.

EYE CONTACT

Flush thoroughly with water. If irritation occurs, get medical assistance.

INGESTION

First aid is normally not required. Seek medical attention if discomfort occurs.

PAINT



MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Trade Name	DURA INDUSTRIAL EPOXY ENAMEL (DI026)
Synonyms	Epoxy Base Components.
Description	A dispersion of pigments and fillers in a solution of a modified epoxy resin in a blend of aromatic and aliphatic solvents, with additives.
Dura Paints (PTY) Ltd	5 Wakefield Road, Founders View South, Edenvale; 1510; South Africa.

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Class	Epoxy Resin
Classification	Liquid Form
Comment	
Hazardous and / or other relevant components	Epoxy Resin, Flammable Solvents
R-Phrases:	R11 – Highly Flammable R18 – In use, may form flammable/explosive vapour –air mixture R20 – Harmful by inhalation R36 – Irritating to skin R48 – Danger of serious damage to health by prolonged exposure R63 – Possible risk of harm to the unborn child R65 – Harmful: may cause lung damage if swallowed R66 – Repeated exposure may cause skin dryness or cracking R67 – Vapours may cause drowsiness and dizziness

3. HAZARDS IDENTIFICATION

SAPMA Health Rating	3-H-E-SLIGHT – Irritation or minor reversible injury possible.
Highly Flammable	Eliminate all ignition sources
Harmful	Ensure sufficient ventilation, avoid inhalation of vapours. Avoid contact with skin or eyes.
Ingestion	Irritating and nauseating
Skin contact	Highly irritating, repeated exposure may cause skin dermatitis.
Inhalation	Exposure to high concentrates of vapor may cause nausea and giddiness.
Eye contact	Causes mild eye irritation.
Principle routes of exposure	Breathing.

4. FIRST AID MEASURE

Ingestion	Give plenty of water / milk. Get medical advice. Do not induce vomiting by untrained person.
Skin	Wash with soap and water. A component of this material can be absorbed through skin with resultant toxic effects. Seek medical attention if irritation persists. Do not use solvents.
Inhalation	If large quantities are involved, use respirator with fresh air supply.
Eyes	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

RED OXIDE



MATERIAL SAFETY DATA SHEET

Red Iron Oxide

C.A.S. Number: 1309-37-1 or 1332-37-2

SECTION I – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT/MATERIAL: FE-601

MANUFACTURER/DISTRIBUTOR: Atlantic Equipment Engineers
ADDRESS: 13 Foster Street, P.O. Box 181
 Bergenfield, NJ 07621

TELEPHONE/FAX NUMBERS: (201) 384-5606 / (201) 387-0291

EMERGENCY CONTACT: CHEMTREC (800) 424-9300

TRADE NAME: Red Iron Oxide

CHEMICAL NAME: Ferric Oxide

CHEMICAL FORMULA: Fe₂O₃ and Fe₃O₄

COLOUR INDEX: Pigment Red 101:77491

CAS NUMBER: 1309-37-1 or 1332-37-2

EINECS NUMBER: 2151682

HMS RATING: HEALTH 0
 FLAMMABILITY 0
 REACTIVITY 0

SECTION II – COMPOSITION:

<u>INGREDIENT NAME</u>	<u>CAS NUMBER</u>	<u>PERCENT</u>	<u>EXPOSURE LIMITS</u>	
IRON OXIDE RED	1309-37-1 (1332-37-2)	>92	ACGIH TLV:	5 mg/m ³ (Iron Oxide Fume)
			OSHA STEL:	10 ppm (Iron Oxide Fume as Fe)
IRON OXIDE BLACK	1317-61-9	<8	ACGIH TLV:	5 mg/m ³ TWA (Iron Oxide Fume)
			OSHA STEL:	10 ppm (Iron Oxide Fume as Fe)

Information presented here is believed to be accurate and reliable but is not intended to meet any specification and does not imply any guarantee or warranty by Atlantic Equipment Engineers. For more information and assistance, please call (201) 384-5606.

• Atlantic Equipment Engineers, 13 Foster Street, P.O. Box 181, Bergenfield, NJ 07621 •

MATERIAL SAFETY DATA SHEET

MATERIAL SAFETY DATA SHEET

**SPRAYMATE AEROSOL PAINT
RANGE - FAST DRYING**

Rev: APRIL 2018
MSDS Number : SM004

Page 1 of 3

1. PRODUCT IDENTIFICATION AND COMPANY DETAILS

Product Name: Spraymate Aerosol Paint (Fast dry range)
 Company Name: Spraymate cc
 Address: 71 Ironwood Street
 Randvaal
 Gauteng
 Telephone: (018) 365 5150
 Fax: (018) 365 5159
 Emergency: 000 776 3308

2. COMPOSITION

Chemical Family: Aerosol nitrocellulose automotive finishing lacquer.

Hazardous Component:	Name	CAS No	%w/w
	DME (dimethyl ether)	115-10-8	40
	Toluene	108-88-3	5

Classification: Harmful
 R40 - Possible risk of irreversible effects.
 R11 - Highly flammable.

3. HAZARD IDENTIFICATION

Health Effects:
 Inhalation: Excessive inhalation may cause irritation to upper respiratory tract. Gastrointestinal irritation, may cause vomiting.
 Ingestion: May cause moderate pain/eye irritation. Vapors may irritate eyes.
 Eyes: Prolonged exposure may cause irritation and have a burning effect.
 Skin: Repeated contact may cause drying of the skin.

4. FIRST AID MEASURES

Inhalation: Move patient to a well ventilated area. If breathing is irregular, seek immediate medical attention.
 Ingestion: Allow patient to rest, give water or milk to drink and seek immediate medical attention. Do not induce vomiting.
 Eyes: Rinse with water for at least 10 minutes keeping eyelids open. Do not use any ointments and seek medical attention.
 Skin: Wash with approved skin cleanser and water. Avoid using solvents.

5. FIRE FIGHTING MEASURES

Extinguishing Media: All known extinguishants can be used.
 Specific Hazards: Avoid exposure to all ignition sources like naked flames and sparks.
 Protective Clothing: Suitable protective fire fighting clothing with positive self contained breathing equipment.
 Special Risks: DME is extremely flammable and may form explosive gas mixture with air.

MATERIAL SAFETY DATA SHEET

SPRAYMATE AEROSOL PAINT

Rev: APRIL 2018
MSDS Number : SM004

THINNERS



Safety Data Sheet

Powafix Lacquer Thinners (Inland)

Section 1. Identification

GHS product identifier : Powafix Lacquer Thinners (Inland)
 Other means of identification : None.
 Product type : Liquid.

Relevant identified uses of the substance or mixture and uses advised against
 Not applicable.

Supplier's details : Powafix cc
 7 Transport Drive
 Prospecton
 Durban
 Tel: 0800 354 830

Emergency telephone number : Poison Information line: 001 869 5327

Section 2. Hazards Identification

Classification of the substance or mixture : FLAMMABLE LIQUIDS - Category 2
 ACUTE TOXICITY: ORAL - Category 5
 ACUTE TOXICITY: SKIN - Category 5
 ACUTE TOXICITY: INHALATION - Category 4
 SKIN CORROSION/IRRITATION - Category 2
 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
 TOXIC TO REPRODUCTION (Unborn child) - Category 2
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
 AQUATIC TOXICITY (ACUTE) - Category 3

Labels 2024: 2007 (GHS) label elements

Hazard pictograms : 

Signal word : Danger

Hazard statements : Highly flammable liquid and vapor.
 Harmful if inhaled.
 May be harmful if swallowed.
 May be harmful in contact with skin.
 Causes skin irritation.
 Causes serious eye irritation.
 Suspected of damaging the unborn child.
 May cause drowsiness and dizziness.
 Harmful to aquatic life.

Precautionary statements
 General : Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

Version : 1 Date of issue/Date of revision : 2006/0014