ORIGIN ID:CPTA 0218511015
CINDY HOLLARD
VERVE DYNAMICS
5 FISH EAGLE PARK
OU PAARDEVLEI ROAD
SOMERSET WEST, WC 7130
ZA

SHIP DATE: 07AUG26
ACTWGT: 2.40 KG
CAD: 25181972/INET4535
DIMS: 25x15x25 CM

BILL SENDER

TO **BRAD MCDONALD**

43 MARTINS ROAD
COOROY
QUEENSLAND
QUEENSLAND QL 4563 **(AU)**

61475847144
INV:
PO: REF:
DEPT:

58KJ4/5868/4843

FedEx Express

J26102601200ZUV

TRK# **8754 6016 1619**
0430

ME MCYA

PM
IP EOD
ISR ETD
4563

QL-AU BNE

Please Thru Sig

EXTRACT of Federal Express Conditions of Carriage for EMEA. Please read the complete version of our Conditions of Carriage for EMEA on www.fedex.com. IMPORTANT NOTICE. These Conditions of Carriage EXCLUDE LIABILITY on the part of FedEx and its employees or agents for loss, damage or delay in certain circumstances. LIMIT LIABILITY is stated where RECOURSE NOTICE OF CLAIMS within strict time limits. Second should also have Conditions carefully and where necessary obtain insurance cover in order to protect their interests. 1. APPLICATION. 1.1 These Conditions apply to the carriage of shipments from and between several countries in Europe, the Middle East, the Indian Subcontinent and Africa ("EMEA") and have general application to FedEx International Priority Distribution, FedEx International Economy, FedEx International Priority, FedEx International Priority Freight, FedEx International First, FedEx International Priority Plus, FedEx International Economy Freight, FedEx International Priority Freight, FedEx International Priority Freight, FedEx International Priority

COMMERCIAL INVOICE

145 Randpark Drive
Randpark Ridge ext 1
(+27)798848588
Devon@growgreen.co.za

INVOICE NO.	1
DATE	8/5/2026
CUSTOMER	Brad McDonald

SHIP FROM:
Company: Grow Green Distribution
Registration no: 2017/375059/07

Customs client/Exporter number: 21826658
Main member: Devon Lailvaux
Phone: +27798848588

SHIP TO:
Customer: Brad McDonald
Email address: brad@atghealth.com.au
Address: 43 Martins Road,
Cooroy, Queensland Australia
4563

Main customer: Brad McDonald
Phone: +61 475 847 144

Products:		PAYMENT TERMS	
Natural Food Supplements		Payment up front	
DESCRIPTION	**QUANTITY**	**AMOUNT**	**TOTAL**
SCELETIUM TORTUOSUM LIQUID EXTRACT 1% - 1 litre HS code: 29397900 - BN3654/0826	1.00	$ 1,000.00	$ 1,000.00
DV777 -4% - SCELETIUM TORTUOSUM PHYTO EXTRACT SAMPLE- 20G - HS code: 29397900 - BN36330626	1.00	$ 5.00	$ 5.00
SCELETIUM TORTUOSUM PHYTOEXTRACT - KNA SAMPLE -20g -HS code: 29397900 -BN3644/0726	1.00	$ 5.00	$ 5.00
		SUB-TOTAL	$ 1,010.00
		SHIPPING	$ -
		Discount - ex shipping	$ -
		TOTAL PAID	$ 1,010.00

The exporter of the products covered by this document (Exporter number: 21826658) declares that, except where otherwise clearly indicated, these products are of South Africa preferential origin.

THANK YOU FOR YOUR BUSINESS!

Manufacturing Declaration

SOLD TO:

Company	Brad McDonald	**Telephone:**
Address 1	43 Martins Road	+61 475 847 144
Address 2	Cooroy, Queensland	**Email:**
Address 3	AUSTRALIA	brad@atghealth.com.au

Date:	7 August 2026
Invoice Number:	INV-1
Reference Number:	N/A
AWB Number:	875460161619

ORDER DETAILS:

Total Order Quantity	Number Product Details	Product Code
1	Sceletium Tortuosum Liquid Extract 1% - 1Lt BN:3654/0826	AI:SX-27.01:2G1
1	Sceletium Tortuosum Extract DV777 4% - 25g sample BN:3633/0626	AI:SX-05.01:DV777-4
1	Sceletium Tortuosum Phyto Extract KNA – 25g sample BN:3644/0726	AI:SX-34-01:KNA:D
	Total Number of PRODUCTS	3
	Total Boxes	1
	Total Net Weight	1.550Kg
	Total Gross Weight	2.397Kg

DECLARATION:

Verve Dynamics (Pty) Ltd, a manufacturing facility based at Unit 5, Fish Eagle Park, Old Paardevlei Road, Somerset West, Western Cape, 7130, South Africa has been lawfully engaged in the business of manufacturing Sceletium Tortuosum extracts and products, which are listed above, on behalf of **Brad McDonald.**

Declaration in terms of Section 33 of the Australian Biosecurity Act 2015

The product described as *Sceletium tortuosum* phyto-extract is a processed botanical extract intended for commercial/research use and is not viable for propagation or cultivation.

The material has been manufactured under controlled processing conditions and does not contain live plants, seeds, soil, pests, or other biosecurity risk material as defined under Section 33 of the Australian Biosecurity Act 2015.

Botanical Name: *Sceletium tortuosum*
Product Description: Phyto-extract / Botanical Extract
Country of Origin: South Africa

These products are manufactured under **SAHPRA License number 0000001463.-.1** for the Manufacture, Packaging, Testing, Distribution, Import and Export of *Sceletium tortuosum* products and GMP certificate number **SAHPRA GMP 26/7/3/3/1/G0027/2025.**

We hereby declare that the product complies with applicable export requirements and has been packed in clean, new packaging suitable for international transport.

Name (Printed):	Nericke van Niekerk
Designation:	Responsible Pharmacist (Deputy)
Signed:	Nieekerk
Date:	07/08/2026

DOCUMENT COPYRIGHT: VERVE DYNAMICS (PTY) LTD | 2026

CERTIFICATE OF ANALYSIS

Product Name:	Sceletium Liquid Extract – 1,0 %
Product Code:	AI:SX-27.01: 2G1
Product Category:	Extract /Active Ingredient
Potency:	Mesembrine approximately – 1,0 % w /w
Botanical Origin:	*Sceletium tortuosum*
Manufactured by:	Verve Dynamics (Pty) Ltd
Licence Number:	0000001463-1
Production Date:	08/2026
Expiration Date:	08/2028
Batch Number:	3654/0826
Country of Origin:	South Africa
Harvesting Protocol:	In accordance with conservation control authority of South Africa.

PARAMETER	SPECIFICATION	METHOD	RESULT
Product Identification			
Plant Parts Used:	Aerial Parts	*VDSA-PMF- SX-27.0*	Complies /Pass
Extraction Method:	Ethanolic Extraction - EtOH	*VDSA-PMF- SX-27.0*	Complies /Pass
Plant /Extraction Ratio:	1.7:1 (DER)	*VDSA-PMF- SX-27.0*	Complies /Pass
Product Identification A:	Retention time /Zonal Pattern (TLC)	*Ph. Eur. 2.8.25.*	Positive ID /Pass
Product Identification B:	Retention time /UV Match Factor (HPLC)	*VDSA-HPLC-SX-001.1*	Positive ID /Pass
Appearance:	Liquid	*VDSA-PMF- SX-27.0*	Complies /Pass
Colour:	Pale Gold to Amber	*VDSA-PMF- SX-27.0*	Complies /Pass
Odour:	Characteristic	*VDSA-PMF- SX-27.0*	Complies /Pass
Solubility:	20 g /100 mL in H^2O at 20 °C (±10 %)	*VDSA-PMF- SX-27.0*	20 g /100 mL /Pass
Moisture:	N/A	*VDSA-PMF- SX-27.0*	Complies /Pass
Particle Size:	Liquid – Not Applicable	*VDSA-PMF- SX-27.0*	Complies /Pass
Purity Active Ingredient /s			
Mesembrine Concentration:	0.95 – 1.05 % (± 5 %)	*VDSA-HPLC-SX-001.1*	1,01 % /Pass
Alkaloid Area Profile			
Mesembrine:	85 – 95 % @ 280 nm UV /DAD	*VDSA-UV-SX-001.0*	95 % /Pass**
Mesembrenone:	5 - 10 % @ 280 nm UV /DAD	*VDSA-UV-SX-001.0*	3 % /Pass**
Δ7 Mesembrenone:	< 5 % @ 280 nm UV /DAD	*VDSA-UV-SX-001.0*	2 % /Pass**
Other Ingredient /s			
Excipient:	Glycerine	*VDSA-PMF- SX-27.0*	As per BMR /Pass
Residual Limits			
Class 3 Solvents:	≤ 5000 ppm - Ethanol	*Ph. Eur. 2.4.24.*	Complies /Pass
Pesticides Residue:	≤ 10 ppb Multi Screen Class 1	*Ph. Eur. 2.8.13.*	Not Detected /Pass*
Heavy Metal Limits			
Lead (Pb):	≤ 5.0 ppm	*Ph. Eur. 2.4.27.*	Complies /Pass*
Cadmium (Cd):	≤ 0.5 ppm	*Ph. Eur. 2.4.27.*	Complies /Pass*
Mercury (Hg):	≤ 0.1 ppm	*Ph. Eur. 2.4.27.*	Complies /Pass*
Arsenic (As):	≤ 3.0 ppm	*Ph. Eur. 2.4.27.*	Complies /Pass*
Mycotoxins Limits			
Aflatoxin B1:	≤ 2 µg /kg	*Ph. Eur. 2.8.18.*	Complies /Pass*
Total Aflatoxins B1+ B2+ G1+ G2:	≤ 4 µg /kg	*Ph. Eur. 2.8.18.*	Complies /Pass*
Ochratoxin A:	≤ 20 µg /kg	*Ph. Eur. 2.8.22.*	Complies /Pass*
Microbial Limits			
Total Aerobic Count (TAMC):	≤ 2 000 cfu /g	*Ph. Eur. 5.1.4.-1*	Complies /Pass*
Total Yeast & Mould Count (TYMC):	≤ 200 cfu /g	*Ph. Eur. 5.1.4.-1*	Complies /Pass*
Staphylococcus aureus:	Absent in 1 g or mL	*Ph. Eur. 5.1.4.-1*	Complies /Pass*
Pseudomonas aeruginosa:	Absent in 1 g or mL	*Ph. Eur. 5.1.4.-1*	Complies /Pass*
Escherichia coli:	Absent in 1 g or mL	*PH. Eur. 5.1.4.-1*	Complies /Pass*
Product Irradiated: YES ☐ NO ☒ :	Gamma 4 – 8 kGy	*VDSA-PMF- SX-27.0*	Not required
Storage and Handling:	Sealed airtight container protected from light. Cool and dry conditions 15 - 25 °C.		

Note: Herbal starting material produced in accordance with sustainable cultivation practices. * Results are based on CoA of Raw Material from supplier.
** Alkaloid profile based on the Area ratio of Mesembrine, Mesembrenone, and Delta7-Mesembrenone – the potency is the actual percentage of Mesembrine concentration w /w.

Nericke van Niekerk
Responsible Pharmacist (Deputy)

Date: 07/08/2026

Antoinette le Roux
Production Manager

Date: 07/08/2026

This information is believed to be current and correct but is provided without any warranty expressed or implied.
Customers are advised to determine in advance the safe conditions of use for this product.

SAFETY DATA SHEET

1. Identification

Product identifier	Sceletium tortuosum Liquid Extract
Other means of identification	Not available.
Chemical Name [if applicable]	Not Applicable
Supplier Code	AI:SX-27.01:2G1
Class	Not Applicable
Synonym(s)	Sceletium extract, Kanna extract
Formulation [if applicable]	Not Applicable
Recommended use	Dietary supplement This safety data sheet is written to provide health, safety and environmental information for people handling this formulated product in the workplace. It is not intended to provide information relevant to the use of this product. In this instance customers should consult the relevant package insert/product label or consult their Healthcare provider. For health and safety information for individual ingredients used during manufacturing, refer to the appropriate safety data sheet for each ingredient.
Recommended restrictions	No other uses are advised.
Manufacturer/Importer/Supplier/Distributor information	
Manufacturer	Verve Dynamics pty(Ltd) Unit 5 Fish Eagle Park Old Paardevlei Road Somerset West, South Africa General Information (normal business hours C.A.T): +27(0)218511015 Email Address: admin@vervedynamics.co.za Website: www.vervedynamics.com EMERGENCY PHONE NUMBERS: +27(0)723070375 TRANSPORT EMERGENCIES : +27(0)723070375
Document preparation date and revision date	According to Regulation : SANS11014:2010 Version 2.0 Revision Date 12/05/2016 Print Date 7-Aug-26

2. Hazard(s) identification

Classified hazards	Exempt from requirements - product regulated as a dietary supplement.
Label elements	Exempt from requirements - product regulated as a dietary supplement.
Hazard(s) not otherwise classified (HNOC)	Exempt from requirements - product regulated as a dietary supplement.

3. Composition/information on ingredients

Mixtures - Products components

Chemical name	Common name and synonyms	CAS number	%
GLYCERIN (VEGETABLE)	Vegetable glycerine	56-81-5	90-99
SCELETIUM TORTUOSUM ISOLATE	ENTRAPPED NATURAL EXTRACT OF SCELETIUM TORTUOSUM HERBA, KANNA, CHANNA, KOUGOED	UNASSIGNED	1-10

*Excipient

4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist. If not breathing, give artificial respiration.
Skin contact	Wash off with soap and plenty of water. Get medical attention if irritation develops and persists.
Eye contact	Flush and rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Never give anything by mouth to an unconscious person. Rinse mouth with water. Get medical advice/attention if you feel unwell.
Most important symptoms/effects, acute and delayed	The possible consequences of overexposure include: increased heart rate, increased blood pressure, abdominal pain, headache and dizziness.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media	Water. Foam. Dry chemical powder.
Unsuitable extinguishing media	Carbon dioxide (CO2).
Specific hazards arising from the chemical	Not applicable.
Special protective equipment and precautions for firefighters	Wear suitable protective equipment. Wear self-contained breathing apparatus for fire-fighting if necessary.
Fire-fighting equipment/ instructions	In the event of fire, cool packaging with water spray. Use standard firefighting procedures and consider the hazards of other involved materials.

Specific methods.	Cool containers exposed to flames with water until well after the fire is out

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away.
Methods and materials for containment and cleaning up	Stop the flow of material, if this is without risk. Following product recovery, flush area with water. Never return material to original containers for re-use.
Environmental precautions	No special environmental precautions required.
Disposal of retrieved substances – documentation?	No special environmental precautions required.
Prevention measures with regard to secondary disasters.	No special environmental precautions required.

7. Handling and storage

Precautions for safe handling	Use care in handling/storage.
Conditions for safe storage, including any incompatibilities	Store in original tightly closed container. Use care in handling/storage. Store in accordance with local/regional/national/international regulation.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.

8. Exposure controls and personal inspection

Control parameters	General work place control parameters
Exposure Controls	Engineering Controls – General Industrial hygiene practice
Personal protective equipment	
- **Eye / face Protection**	Use standard eye protection tested and approved by industry regulatory bodies.
- **Skin Protection**	Handle with gloves – all gloves must be inspected prior to use. Use proper glove removal techniques and dispose of contaminated after use in accordance with applicable laws and good manufacturing practices. Wash and dry hands.
- **Body Protection**	Use standard body protection tested and approved by industry regulatory bodies.
- **Respiratory Protection**	Respiratory protection is not required. If required use dust masks tested and approved by industry regulatory bodies.
- **Environmental Exposure**	Do not allow product to enter drains.

9. Physical and chemical properties

Appearance	
Physical state	Liquid
Form	Liquid
Colour	Amber to Golden Brown
Odour	No data available
Odour threshold	No data available
pH	5.2
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	
Flammability limit – lower (%)	No data available
Flammability limit – upper (%)	No data available
Explosive limit - lower (%)	No data available
Explosive limit - upper (%)	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Solubility(ies)	No data available
Partition coefficient (n-octanol/ water)	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available

Explosive properties	No data available
Oxidising properties	No data available
Other safety information	No data available

10. Stability and reactivity

Reactivity	Not available
Chemical stability	Material is stable under normal conditions
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use
Conditions to avoid	None under normal conditions
Incompatible materials	None known
Hazardous decomposition products	Carbon monoxide

11. Toxicological information

Information on likely routes of exposure

Ingestion	May be harmful if swallowed.
Inhalation	Not available.
Skin contact	Health injuries are not known or expected under normal use.
Eye contact	Health injuries are not known or expected under normal use. May be irritating to eyes.
Symptoms related to the physical, chemical and toxicological characteristics	The possible symptoms of overexposure include: increased heart rate, increased blood pressure, abdominal pain, headache and dizziness.
Information on toxicological effects	Product contains NO known substance classed as TOXIC!

12. Ecological information

Toxicity	No data available
Persistence and degradability	No data available
Bio-accumulative potential	No data available
Mobility in Soil	No data available
Other adverse effects	No data available
Information on toxicological effects	Product contains NO known substance classed as TOXIC!

13. Disposal considerations

Waste treatment methods **Product**	Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated Packaging	Dispose of as un-used product

14. Transport Information

Classification data

Transport medium must be humid free.
Ship as a food stuff.
Not to be loaded with incompatible material including poisons S7 S8
Not classified as hazardous for transport

	ADR/RID:	IMDG:	IATA:
UN number	-	-	-
UN proper shipping name	Not dangerous goods	Not dangerous goods	Not dangerous goods
Transport hazard class(es)	-	-	-
Packaging group	-	-	-
Environmental hazards	-	-	-
Packaging group	no	Marine pollutant - no	no
Special precautions for user	No data available		

15. Regulatory information

US federal regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)	Not regulated
CERCLA Hazardous Substance List (40 CFR 302.4)	Not listed
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	Not listed
SARA 304 Emergency release notification	Not listed

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

	Immediate Hazard	No
	Delayed Hazard	Yes
	Fire Hazard	No
	Pressure Hazard	No
	Reactivity Hazard	No

SARA 302 Extremely hazardous substance		No
SARA 311/312 Hazardous chemical		No
NFPA ratings	Health:	1
	Flammability:	1
	Instability:	0
HMIS® ratings	Health:	1
	Flammability:	1
	Physical hazard:	0

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List	Not regulated.
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)	Not regulated.
Safe Drinking Water Act (SDWA)	Not regulated.
Food and Drug Administration (FDA)	Not regulated.

International inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

**A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)*

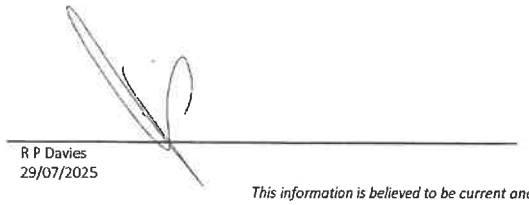
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

This safety datasheet complies with the requirements of **South African National Standards No.: SANS 11014:2010.**

Safety, health and environmental regulations/legislation specific for the substance or mixture	No data available
Chemical Safety Assessment	No data available

16. Other information, including date of preparation or last revision

Issue date	12/05/2016
Version #	2.0
References	Verve Dynamics cc Hazard Determination
Disclaimer	The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Verve Dynamics cc and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.ervedynamics.co.za for additional terms and conditions of sale.



R P Davies
29/07/2025

This information is believed to be current and correct but is provided without any warranty expressed or implied.
Customers are advised to determine in advance the safe conditions of use for this product.

CERTIFICATE OF ANALYSIS

Product Name:	Sceletium Phyto-Extract DV777 – 4,0 %
Product Code:	AI:SX-05.01:DV777-4
Product Category:	Extract /Active Ingredient
Potency:	Mesembrine approximately – 4,0 % w /w
Botanical Origin:	*Sceletium tortuosum*
Manufactured by:	Verve Dynamics (Pty) Ltd
Licence Number:	0000001463-1
Production Date:	06/2026
Expiration Date:	06/2028
Batch Number:	3633/0626
Country of Origin:	South Africa
Harvesting Protocol:	In accordance with conservation control authority of South Africa.



For Illustration purposes only

PARAMETER	SPECIFICATION	METHOD	RESULT
Product Identification			
Plant Parts Used:	Aerial Parts	*VDSA-PMF- SX-05.0*	Complies /Pass
Extraction Method:	Ethanolic Extraction - EtOH	*VDSA-PMF- SX-05.0*	Complies /Pass
Plant /Extraction Ratio:	7:1 (DER)	*VDSA-PMF- SX-05.0*	Complies /Pass
Product Identification A:	Retention time /Zonal Pattern (TLC)	*Ph. Eur. 2.2.27.*	Positive ID /Pass
Product Identification B:	Retention time /UV Match Factor (HPLC)	*VDSA-HPLC-SX-001.1*	Positive ID /Pass
Appearance:	Fine Powder	*VDSA-PMF- SX-05.0*	Complies /Pass
Colour:	Light Tan to Beige	*VDSA-PMF- SX-05.0*	Complies /Pass
Odour:	Characteristic	*VDSA-PMF- SX-05.0*	Complies /Pass
Solubility:	16 g /100 mL in H^2O at 20 °C (±10 %)	*VDSA-PMF- SX-05.0*	Complies /Pass
Moisture:	NMT 5 %	*VDSA-PMF- SX-05.0*	Complies /Pass
Particle Size:	100 % Pass through 100 µm Sieve	*VDSA-PMF- SX-05.0*	Complies /Pass
Purity Active Ingredient /s			
Mesembrine Concentration:	3.8 – 4.2 % (± 5 %)	*VDSA-HPLC-SX-001.1*	4.12 % /Pass
Alkaloid Area Profile			
Mesembrine:	80 – 90 % @ 280 nm UV /DAD	*VDSA-UV-SX-001.0*	85 % /Pass**
Mesembrenone:	< 15 % @ 280 nm UV /DAD	*VDSA-UV-SX-001.0*	8 % /Pass**
Δ7 Mesembrenone:	< 10 % @ 280 nm UV /DAD	*VDSA-UV-SX-001.0*	6 % /Pass**
Other Ingredient /s			
Excipient:	Mannitol	*VDSA-PMF- SX-05.0*	As per BMR /Pass
Residual Limits			
Class 3 Solvents:	≤ 5000 ppm - Ethanol	*Ph. Eur. 2.4.24.*	Complies /Pass
Pesticides Residue:	≤ 10 ppb Multi Screen Class 1	*Ph. Eur. 2.8.13.*	Not Detected /Pass*
Heavy Metal Limits			
Lead (Pb):	≤ 5.0 ppm	*Ph. Eur. 2.4.27.*	Complies /Pass*
Cadmium (Cd):	≤ 0.5 ppm	*Ph. Eur. 2.4.27.*	Complies /Pass*
Mercury (Hg):	≤ 0.1 ppm	*Ph. Eur. 2.4.27.*	Complies /Pass*
Arsenic (As):	≤ 3.0 ppm	*Ph. Eur. 2.4.27.*	Complies /Pass*
Mycotoxins Limits			
Aflatoxin B1:	≤ 2 µg /kg	*Ph. Eur. 2.8.18.*	Complies /Pass*
Total Aflatoxins B1+ B2+ G1+ G2:	≤ 4 µg /kg	*Ph. Eur. 2.8.18.*	Complies /Pass*
Ochratoxin A:	≤ 20 µg /kg	*Ph. Eur. 2.8.22.*	Complies /Pass*
Microbial Limits			
Total Aerobic Count (TAMC):	≤ 2 000 cfu /g	*Ph. Eur. 5.1.4.-1*	Complies /Pass*
Total Yeast & Mould Count (TYMC):	≤ 200 cfu /g	*Ph. Eur. 5.1.4.-1*	Complies /Pass*
Staphylococcus aureus:	Absent in 1 g or mL	*Ph. Eur. 5.1.4.-1*	Complies /Pass*
Pseudomonas aeruginosa:	Absent in 1 g or mL	*Ph. Eur. 5.1.4.-1*	Complies /Pass*
Escherichia coli:	Absent in 1 g or mL	*PH. Eur. 5.1.4.-1*	Complies /Pass*
Product Irradiated: YES ☐ NO ☒ :	Gamma 4 – 8 kGy	*VDSA-PMF- SX-05.0*	Complies /Pass*
Storage and Handling:	Sealed airtight container protected from light. Cool and dry conditions 15 - 25 °C.		

Note: Herbal starting material produced in accordance with sustainable cultivation practices. * Results are based on CoA of Raw Material from supplier.
** Alkaloid profile based on the Area ratio of Mesembrine, Mesembrenone, and Delta7-Mesembrenone – the potency is the actual percentage of Mesembrine concentration w /w.

Ackerman

Bernice Ackerman
Responsible Pharmacist (Deputy)

Date: 13/07/2026

Antoinette le Roux
Production Manager

Date: 13/07/2026

This information is believed to be current and correct but is provided without any warranty expressed or implied.
Customers are advised to determine in advance the safe conditions of use for this product.

P O BOX 2387, SOMERSET WEST, 7129
5 FISH EAGLE PARK, OU PAARDEVLEI ROAD, SOMERSET WEST, 7130

TEL: +27 [0] 21 851 1015
www.vervedynamics.co.za

DIRECTORS : C HOLLARD and RP DAVIES

COMPANY REGISTRATION NUMBER : 2017/117627/07
(converted from CC 2004/079057/23)

SAFETY DATA SHEET

1. Identification

Product identifier	DV777 4%
Other means of identification	Sceletium Tortuosum Phyto-Extract
Chemical Name [if applicable]	Not Applicable
Product Code	AI:SX-05.01:D7774
Class	Not Applicable
Synonym(s)	Sceletium extract, Kanna extract
Formulation [if applicable]	Not Applicable
Recommended use	Dietary supplement This safety data sheet is written to provide health, safety and environmental information for people handling this formulated product in the workplace. It is not intended to provide information relevant to the use of this product. In this instance customers should consult the relevant package insert/product label or consult their Healthcare provider. For health and safety information for individual ingredients used during manufacturing, refer to the appropriate safety data sheet for each ingredient.
Recommended restrictions	No other uses are advised.
Manufacturer/Importer/Supplier/Distributor information	
Manufacturer	Verve Dynamics (Pty) Ltd Unit 5 Fish Eagle Park Old Paardevlei Road Somerset West, South Africa General Information (normal business hours C.A.T): +27(0)218511015 Email Address: admin@vervedynamics.co.za Website: www.vervedynamics.com EMERGENCY PHONE NUMBERS: +27(0)723070375 TRANSPORT EMERGENCIES : +27(0)723070375
Document preparation date and revision date	According to Regulation : SANS11014:2010 Version 2.0 Revision Date 12/05/2016 Print Date 7-Aug-26

2. Hazard(s) identification

Classified hazards	Exempt from requirements - product regulated as a dietary supplement.
Label elements	Exempt from requirements - product regulated as a dietary supplement.
Hazard(s) not otherwise classified (HNOC)	Exempt from requirements - product regulated as a dietary supplement.

3. Composition/information on ingredients

Mixtures - Products components

Chemical name	Common name and synonyms	CAS number	%
MANNITOL *	D-MANNITOL, MANNITE	69-65-8	≤90%
SCELETIUM TORTUOSUM ISOLATE	ENTRAPPED NATURAL EXTRACT OF SCELETIUM TORTUOSUM HERBA, KANNA, CHANNA, KOUGOED	UNASSIGNED	≥10%

**Excipient*

4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist. If not breathing, give artificial respiration.
Skin contact	Wash off with soap and plenty of water. Get medical attention if irritation develops and persists.
Eye contact	Flush and rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Never give anything by mouth to an unconscious person. Rinse mouth with water. Get medical advice/attention if you feel unwell.

Most important symptoms/effects, acute and delayed	The possible consequences of overexposure include: increased heart rate, increased blood pressure, abdominal pain, headache and dizziness.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media	Water. Foam. Dry chemical powder.
Unsuitable extinguishing media	Carbon dioxide (CO2).
Specific hazards arising from the chemical	Not applicable.
Special protective equipment and precautions for firefighters	Wear suitable protective equipment. Wear self-contained breathing apparatus for fire-fighting if necessary.
Fire-fighting equipment/ instructions	In the event of fire, cool packaging with water spray. Use standard firefighting procedures and consider the hazards of other involved materials.
Specific methods.	Cool containers exposed to flames with water until well after the fire is out

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away.
Methods and materials for containment and cleaning up	Stop the flow of material, if this is without risk. Following product recovery, flush area with water. Never return material to original containers for re-use.
Environmental precautions	No special environmental precautions required.
Disposal of retrieved substances – documentation?	No special environmental precautions required.
Prevention measures with regard to secondary disasters.	No special environmental precautions required.

7. Handling and storage

Precautions for safe handling	Use care in handling/storage.
Conditions for safe storage, including any incompatibilities	Store in original tightly closed container. Use care in handling/storage. Store in accordance with local/regional/national/international regulation.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.

8. Exposure controls and personal inspection

Control parameters	General work place control parameters
Exposure Controls	Engineering Controls – General Industrial hygiene practice
Personal protective equipment	
- **Eye / face Protection**	Use standard eye protection tested and approved by industry regulatory bodies.
- **Skin Protection**	Handle with gloves – all gloves must be inspected prior to use. Use proper glove removal techniques and dispose of contaminated after use in accordance with applicable laws and good manufacturing practices. Wash and dry hands.
- **Body Protection**	Use standard body protection tested and approved by industry regulatory bodies.
- **Respiratory Protection**	Respiratory protection is not required. If required use dust masks tested and approved by industry regulatory bodies.
- **Environmental Exposure**	Do not allow product to enter drains.

9. Physical and chemical properties

Appearance	
Physical state	Powder
Form	Powder
Colour	Light Tan to Tan

Odour	No data available
Odour threshold	No data available
pH	No data available
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	
Flammability limit – lower (%)	No data available
Flammability limit – upper (%)	No data available
Explosive limit - lower (%)	No data available
Explosive limit - upper (%)	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Solubility(ies)	No data available
Partition coefficient (n-octanol/ water)	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidising properties	No data available
Other safety information	No data available

10. Stability and reactivity

Reactivity	Not available
Chemical stability	Material is stable under normal conditions
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use
Conditions to avoid	None under normal conditions
Incompatible materials	None known
Hazardous decomposition products	Carbon monoxide

11. Toxicological information

Information on likely routes of exposure	
Ingestion	May be harmful if swallowed.
Inhalation	Not available.
Skin contact	Health injuries are not known or expected under normal use.
Eye contact	Health injuries are not known or expected under normal use. May be irritating to eyes.
Symptoms related to the physical, chemical and toxicological characteristics	The possible symptoms of overexposure include: increased heart rate, increased blood pressure, abdominal pain, headache and dizziness.
Information on toxicological effects	Product contains NO known substance classed as TOXIC!

12. Ecological information

Toxicity	No data available
Persistence and degradability	No data available
Bio-accumulative potential	No data available
Mobility in Soil	No data available
Other adverse effects	No data available

Information on toxicological effects Product contains NO known substance classed as TOXIC!

13. Disposal considerations

Waste treatment methods
Product Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated Packaging Dispose of as un-used product

14. Transport Information

Classification data
Transport medium must be humid free.
Ship as a food stuff.
Not to be loaded with incompatible material including poisons S7 S8
Not classified as hazardous for transport

	ADR/RID:	IMDG:	IATA:
UN number	-	-	-
UN proper shipping name	Not dangerous goods	Not dangerous goods	Not dangerous goods
Transport hazard class(es)	-	-	-
Packaging group	-	-	-
Environmental hazards	-	-	-
Packaging group	no	Marine pollutant - no	no
Special precautions for user	No data available		

15. Regulatory information

US federal regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)	Not regulated
CERCLA Hazardous Substance List (40 CFR 302.4)	Not listed
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	Not listed
SARA 304 Emergency release notification	Not listed

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard	No
Delayed Hazard	Yes
Fire Hazard	No
Pressure Hazard	No
Reactivity Hazard	No

SARA 302 Extremely hazardous substance	No
SARA 311/312 Hazardous chemical	No

NFPA ratings	Health:	1
	Flammability:	1
	Instability:	0
HMIS® ratings	Health:	1
	Flammability:	1
	Physical hazard:	0

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List	Not regulated.
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)	Not regulated.
Safe Drinking Water Act (SDWA)	Not regulated.
Food and Drug Administration (FDA)	Not regulated.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No

China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

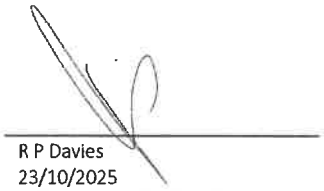
**A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)*
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

This safety datasheet complies with the requirements of **South African National Standards No.: SANS 11014:2010.**

Safety, health and environmental regulations/legislation specific for the substance or mixture	No data available
Chemical Safety Assessment	No data available

16. Other information, including date of preparation or last revision

Issue date	12/05/2016
Version #	2.0
References	Verve Dynamics (Pty) Ltd Hazard Determination
Disclaimer	The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Verve Dynamics (Pty) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.vervedynamics.co.za for additional terms and conditions of sale.



R P Davies
23/10/2025

This information is believed to be current and correct but is provided without any warranty expressed or implied.
Customers are advised to determine in advance the safe conditions of use for this product.

CERTIFICATE OF ANALYSIS

Product Name:	Sceletium Phyto-Extract KNA – 3,5 %
Product Code:	AI:SX-34.01:KNA:D
Product Category:	Extract /Active Ingredient
Potency:	Mesembrine approximately – 3,5 % w /w
Botanical Origin:	*Sceletium tortuosum*
Manufactured by:	Verve Dynamics (Pty) Ltd
Licence Number:	0000001463-1
Production Date:	07/2026
Expiration Date:	07/2028
Batch Number:	3644/0726
Country of Origin:	South Africa
Harvesting Protocol:	In accordance with conservation control authority of South Africa.



For illustration purposes only

PARAMETER	SPECIFICATION	METHOD	RESULT
Product Identification			
Plant Parts Used:	Aerial Parts	*VDSA-PMF- SX-34.00*	Complies /Pass
Extraction Method:	Ethanolic Extraction - EtOH	*VDSA-PMF- SX-34.00*	Complies /Pass
Plant /Extraction Ratio:	6:1 (DER)	*VDSA-PMF- SX-34.00*	Complies /Pass
Product Identification A:	Retention time /Zonal Pattern (TLC)	*Ph. Eur. 2.8.25.*	Positive ID /Pass
Product Identification B:	Retention time /UV Match Factor (HPLC)	*VDSA-HPLC-SX-001.1*	Positive ID /Pass
Appearance:	Fine Powder	*VDSA-PMF- SX-34.00*	Complies /Pass
Colour:	Light Tan to Beige	*VDSA-PMF- SX-34.00*	Complies /Pass
Odour:	Characteristic	*VDSA-PMF- SX-34.00*	Complies /Pass
Solubility:	16 g /100 mL in H^2O at 20 °C (±10 %)	*VDSA-PMF- SX-34.00*	Complies /Pass
Moisture:	NMT 5 %	*VDSA-PMF- SX-34.00*	Complies /Pass
Particle Size:	100 % Pass through 100 µm Sieve	*VDSA-PMF- SX-34.00*	Complies /Pass
Purity Active Ingredient /s			
Mesembrine Concentration:	3.3 – 3.7 % (± 5 %)	*VDSA-HPLC-SX-001.1*	3.41 % /Pass
Alkaloid Area Profile			
Mesembrine:	45 – 55 % @ 280 nm UV /DAD	*VDSA-UV-SX-001.0*	50 % /Pass**
Mesembrenone:	20 – 30 % @ 280 nm UV /DAD	*VDSA-UV-SX-001.0*	21 % /Pass**
Δ7 Mesembrenone:	20 – 30 % @ 280 nm UV /DAD	*VDSA-UV-SX-001.0*	29 % /Pass**
Other Ingredient /s			
Excipient:	Mannitol	*VDSA-PMF- SX-34.00*	As per BMR /Pass
Residual Limits			
Class 3 Solvents:	≤ 5000 ppm - Ethanol	*Ph. Eur. 2.4.24.*	Complies /Pass
Pesticides Residue:	≤ 10 ppb Multi Screen Class 1	*Ph. Eur. 2.8.13.*	Not Detected /Pass*
Heavy Metal Limits			
Lead (Pb):	≤ 5.0 ppm	*Ph. Eur. 2.4.27.*	Complies /Pass*
Cadmium (Cd):	≤ 0.5 ppm	*Ph. Eur. 2.4.27.*	Complies /Pass*
Mercury (Hg):	≤ 0.1 ppm	*Ph. Eur. 2.4.27.*	Complies /Pass*
Arsenic (As):	≤ 3.0 ppm	*Ph. Eur. 2.4.27.*	Complies /Pass*
Mycotoxins Limits			
Aflatoxin B1:	≤ 2 µg /kg	*Ph. Eur. 2.8.18.*	Complies /Pass*
Total Aflatoxins B1+ B2+ G1+ G2:	≤ 4 µg /kg	*Ph. Eur. 2.8.18.*	Complies /Pass*
Ochratoxin A:	≤ 20 µg /kg	*Ph. Eur. 2.8.22.*	Complies /Pass*
Microbial Limits			
Total Aerobic Count (TAMC):	≤ 2 000 cfu /g	*Ph. Eur. 5.1.4.-1*	Complies /Pass*
Total Yeast & Mould Count (TYMC):	≤ 200 cfu /g	*Ph. Eur. 5.1.4.-1*	Complies /Pass*
Staphylococcus aureus:	Absent in 1 g or mL	*Ph. Eur. 5.1.4.-1*	Complies /Pass*
Pseudomonas aeruginosa:	Absent in 1 g or mL	*Ph. Eur. 5.1.4.-1*	Complies /Pass*
Escherichia coli:	Absent in 1 g or mL	*PH. Eur. 5.1.4.-1*	Complies /Pass*
Product Irradiated: YES ☐ NO ☒ :	Gamma 4 – 8 kGy	*VDSA-PMF- SX-34.00*	Not Applicable
Storage and Handling:	Sealed airtight container protected from light. Cool and dry conditions 15 - 25 °C.		

Note: Herbal starting material produced in accordance with sustainable cultivation practices. * Results are based on CoA of Raw Material from supplier.
** Alkaloid profile based on the Area ratio of Mesembrine, Mesembrenone, and Delta7-Mesembrenone – the potency is the actual percentage of Mesembrine concentration w /w.

Ackerman

Bernice Ackerman
Responsible Pharmacist (Deputy)

Date: 07/08/2026

Antoinette le Roux
Production Manager

Date: 07/08/2026

This information is believed to be current and correct but is provided without any warranty expressed or implied.
Customers are advised to determine in advance the safe conditions of use for this product.

SAFETY DATA SHEET

1. Identification

Product Identifier	KNA
Other means of identification	Sceletium Tortuosum Phyto-Extract
Chemical Name [if applicable]	Not Applicable
Product Code	AI:SX-01.34:KNA
Class	Not Applicable
Synonym(s)	Sceletium extract, Kanna extract
Formulation [if applicable]	Not Applicable
Recommended use	Dietary supplement This safety data sheet is written to provide health, safety and environmental information for people handling this formulated product in the workplace. It is not intended to provide information relevant to the use of this product. In this instance customers should consult the relevant package insert/product label or consult their Healthcare provider. For health and safety information for individual ingredients used during manufacturing, refer to the appropriate safety data sheet for each ingredient.
Recommended restrictions	No other uses are advised.
Manufacturer/Importer/Supplier/Distributor information	
Manufacturer	Verve Dynamics (Pty) Ltd Unit 5 Fish Eagle Park Old Paardevlei Road Somerset West, South Africa General Information (normal business hours C.A.T): +27(0)218511015 Email Address: admin@vervedynamics.co.za Website: www.vervedynamics.com EMERGENCY PHONE NUMBERS: +27(0)723070375 TRANSPORT EMERGENCIES : +27(0)723070375
Document preparation date and revision date	According to Regulation : SANS11014:2010 Version 2.0 Revision Date 12/05/2016 Print Date 7-Aug-26

2. Hazard(s) identification

Classified hazards	Exempt from requirements - product regulated as a dietary supplement.
Label elements	Exempt from requirements - product regulated as a dietary supplement.
Hazard(s) not otherwise classified (HNOC)	Exempt from requirements - product regulated as a dietary supplement.

3. Composition/information on ingredients

Mixtures - Products components

Chemical name	Common name and synonyms	CAS number	%
MANNITOL *	D-MANNITOL, MANNITE	69-65-8	≤90%
SCELETIUM TORTUOSUM ISOLATE	ENTRAPPED NATURAL EXTRACT OF SCELETIUM TORTUOSUM HERBA, KANNA, CHANNA, KOUGOED	UNASSIGNED	≥10%

**Excipient*

4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist. If not breathing, give artificial respiration.
Skin contact	Wash off with soap and plenty of water. Get medical attention if irritation develops and persists.
Eye contact	Flush and rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Never give anything by mouth to an unconscious person. Rinse mouth with water. Get medical advice/attention if you feel unwell.

Most important symptoms/effects, acute and delayed	The possible consequences of overexposure include: increased heart rate, increased blood pressure, abdominal pain, headache and dizziness.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media	Water. Foam. Dry chemical powder.
Unsuitable extinguishing media	Carbon dioxide (CO2).
Specific hazards arising from the chemical	Not applicable.
Special protective equipment and precautions for firefighters	Wear suitable protective equipment. Wear self-contained breathing apparatus for fire-fighting if necessary.
Fire-fighting equipment/ instructions	In the event of fire, cool packaging with water spray. Use standard firefighting procedures and consider the hazards of other involved materials.
Specific methods.	Cool containers exposed to flames with water until well after the fire is out

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away.
Methods and materials for containment and cleaning up	Stop the flow of material, if this is without risk. Following product recovery, flush area with water. Never return material to original containers for re-use.
Environmental precautions	No special environmental precautions required.
Disposal of retrieved substances – documentation?	No special environmental precautions required.
Prevention measures with regard to secondary disasters.	No special environmental precautions required.

7. Handling and storage

Precautions for safe handling	Use care in handling/storage.
Conditions for safe storage, including any incompatibilities	Store in original tightly closed container. Use care in handling/storage. Store in accordance with local/regional/national/international regulation.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.

8. Exposure controls and personal Inspection

Control parameters	General work place control parameters
Exposure Controls	Engineering Controls – General Industrial hygiene practice
Personal protective equipment	
- **Eye / face Protection**	Use standard eye protection tested and approved by industry regulatory bodies.
- **Skin Protection**	Handle with gloves – all gloves must be inspected prior to use. Use proper glove removal techniques and dispose of contaminated after use in accordance with applicable laws and good manufacturing practices. Wash and dry hands.
- **Body Protection**	Use standard body protection tested and approved by industry regulatory bodies.
- **Respiratory Protection**	Respiratory protection is not required. If required use dust masks tested and approved by industry regulatory bodies.
- **Environmental Exposure**	Do not allow product to enter drains.

9. Physical and chemical properties

Appearance	
Physical state	Powder
Form	Powder
Colour	Light Tan to Tan

Odour	No data available
Odour threshold	No data available
pH	No data available
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	
Flammability limit – lower (%)	No data available
Flammability limit – upper (%)	No data available
Explosive limit - lower (%)	No data available
Explosive limit - upper (%)	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Solubility(ies)	No data available
Partition coefficient (n-octanol/ water)	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidising properties	No data available
Other safety information	No data available

10. Stability and reactivity

Reactivity	Not available
Chemical stability	Material is stable under normal conditions
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use
Conditions to avoid	None under normal conditions
Incompatible materials	None known
Hazardous decomposition products	Carbon monoxide

11. Toxicological information

Information on likely routes of exposure	
Ingestion	May be harmful if swallowed.
Inhalation	Not available.
Skin contact	Health injuries are not known or expected under normal use.
Eye contact	Health injuries are not known or expected under normal use. May be irritating to eyes.
Symptoms related to the physical, chemical and toxicological characteristics	The possible symptoms of overexposure include: increased heart rate, increased blood pressure, abdominal pain, headache and dizziness.
Information on toxicological effects	Product contains NO known substance classed as TOXIC!

12. Ecological information

Toxicity	No data available
Persistence and degradability	No data available
Bio-accumulative potential	No data available
Mobility in Soil	No data available
Other adverse effects	No data available

Information on toxicological effects Product contains NO known substance classed as TOXIC!

13. Disposal considerations

Waste treatment methods
Product Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated Packaging Dispose of as un-used product

14. Transport Information

Classification data
Transport medium must be humid free.
Ship as a food stuff.
Not to be loaded with incompatible material including poisons S7 S8
Not classified as hazardous for transport

	ADR/RID:	IMDG:	IATA:
UN number	-	-	-
UN proper shipping name	Not dangerous goods	Not dangerous goods	Not dangerous goods
Transport hazard class(es)	-	-	-
Packaging group	-	-	-
Environmental hazards	-	-	-
Packaging group	no	Marine pollutant - no	no
Special precautions for user	No data available		

15. Regulatory information

US federal regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)	Not regulated
CERCLA Hazardous Substance List (40 CFR 302.4)	Not listed
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	Not listed
SARA 304 Emergency release notification	Not listed

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard	No
Delayed Hazard	Yes
Fire Hazard	No
Pressure Hazard	No
Reactivity Hazard	No

SARA 302 Extremely hazardous substance	No
SARA 311/312 Hazardous chemical	No

NFPA ratings	Health:	1
	Flammability:	1
	Instability:	0
HMIS® ratings	Health:	1
	Flammability:	1
	Physical hazard:	0

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List	Not regulated.
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)	Not regulated.
Safe Drinking Water Act (SDWA)	Not regulated.
Food and Drug Administration (FDA)	Not regulated.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No

China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

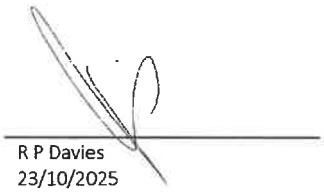
**A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)*
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

This safety datasheet complies with the requirements of **South African National Standards No.: SANS 11014:2010.**

Safety, health and environmental regulations/legislation specific for the substance or mixture	No data available
Chemical Safety Assessment	No data available

16. Other information, including date of preparation or last revision

Issue date	12/05/2016
Version #	2.0
References	Verve Dynamics (Pty) Ltd Hazard Determination
Disclaimer	The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Verve Dynamics (Pty) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.vervedynamics.co.za for additional terms and conditions of sale.



R P Davies
23/10/2025

This information is believed to be current and correct but is provided without any warranty expressed or implied.
Customers are advised to determine in advance the safe conditions of use for this product.