

# SAFETY DATA SHEET

#### Servus

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Product No INS00080-27 R-9855.DPD 9500251

# Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

### Servus

Pure substance/mixture Mixture Relevant identified uses of the substance or mixture and uses advised against **Recommended Use** Insecticide No information available Uses advised against Details of the supplier of the safety data sheet ADAMA SOUTH AFRICA (PTY) LTD Supplier Address Ground Floor, Simeka House The Vineyards Office Estate 99 Jip de Jager Drive Bellville 7530 For further information, please contact Email address SDS@ADAMA.COM Emergency Telephone **Emergency Telephone** + 27 82 446 8946 + 27 86 155 5777 + 27 21 982 1460

# Section 2: HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

Aspiration toxicity	Category 1 - (H304)
Acute toxicity - Oral	Category 4 - (H302)
Acute toxicity - Inhalation (Dusts/Mists)	Category 4 - (H332)
Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2A - (H319)
Specific target organ toxicity (single	Category 3 - (H336)
exposure) Acute aquatic toxicity Chronic aquatic toxicity Flammable liquids	Category 1 - (H400) Category 1 - (H410) Category 4 - (H227)

#### Label Elements

Hazard pictograms	
Signal word	Danger
Hazard Statements	H302 - Harmful if swallowed H304 - May be fatal if swallowed and enters airways H315 - Causes skin irritation H319 - Causes serious eye irritation H332 - Harmful if inhaled H336 - May cause drowsiness or dizziness H410 - Very toxic to aquatic life with long lasting effects H227 - Combustible liquid
Precautionary Statements	<ul> <li>P102 - Keep out of reach of children</li> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.</li> <li>No smoking.</li> <li>P261 - Avoid breathing dust/fume/gas/mist/vapors/spray</li> <li>P270 - Do not eat, drink or smoke when using this product</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection</li> <li>P302 + P352 - IF ON SKIN: Wash with plenty of water.</li> <li>P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.</li> <li>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing</li> <li>P301 - Dispose of contents/ container to an approved waste disposal plant</li> </ul>
Other Hazards	

#### Other Hazards No information available

# Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

### <u>Mixture</u>

Chemical Name	Weight-%	CAS No	EC No	GHS Classification	M-Factor
Deltamethrin	2 - 3	52918-63-5	258-256-6	Acute Tox. 3 (H301) Acute Tox. 3 (H331) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	M=1000000 M=1000000
Hydrocarbons, C10, aromatics, <1% naphthalene	76 - 84	N/A	918-811-1	Asp. Tox. 1 (H304) STOT SE 3 (H336) Aquatic Chronic 2 (H411)	
C11 Alcohol ethoxylate	13 - 16	34398-01-1	500-084-3	Eye Dam. 1 (H318)	
calcium dodecylbenzenesulphonate	1 - 2	26264-06-2	247-557-8	Skin Irrit. 2 (H315) Eye Dam. 1 (H318)	
2-Ethylhexan-1-ol	0.5 - 1.5	104-76-7	203-234-3	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)	

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# Section 4: FIRST AID MEASURES

General adviceIn case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). First aider: Pay attention to self-protection!.InhalationRemove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician.Skin ContactWash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician if necessary.Eye contactImmediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.IngestionDo NOT induce vomiting. Rinse mouth. Drink plenty of water. If symptoms persist, call a physician.Self-protection of the first aiderUse personal protective equipment as required.Most important symptoms and elfayed_None knownIndication of any immediate medicate medicated special treatment needed_Treat symptomatically.Note to physiciansTreat symptomatically.	First aid measures			
a physician.Skin ContactWash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician if necessary.Eye contactImmediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.IngestionDo NOT induce vomiting. Rinse mouth. Drink plenty of water. If symptoms persist, call a physician.Self-protection of the first aiderUse personal protective equipment as required.Most important symptoms and effects, both acute and delayed SymptomsNone knownIndication of any immediate medical attention and special treatment neededNone known	General advice			
Eye contactImmediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.IngestionDo NOT induce vomiting. Rinse mouth. Drink plenty of water. If symptoms persist, call a physician.Self-protection of the first aiderUse personal protective equipment as required.Most important symptoms and effects, both acute and delayed SymptomsNone knownIndication of any immediate medical attention and special treatment neededNone known	Inhalation			
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physician.         Self-protection of the first aider       Use personal protective equipment as required.         Most important symptoms and effects, both acute and delayed         Symptoms       None known         Indication of any immediate medical attention and special treatment needed	Eye contact	continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms		
Most important symptoms and effects, both acute and delayed         Symptoms       None known         Indication of any immediate medical attention and special treatment needed	Ingestion			
Symptoms     None known       Indication of any immediate medical attention and special treatment needed	Self-protection of the first aider	Use personal protective equipment as required.		
Indication of any immediate medical attention and special treatment needed	Most important symptoms and effe	ects, both acute and delayed		
	Symptoms	None known		
Note to physicians         Treat symptomatically.	Indication of any immediate medical attention and special treatment needed			
	Note to physicians			

### Section 5: FIRE-FIGHTING MEASURES

#### Extinguishing media

#### Suitable Extinguishing Media

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

#### Unsuitable Extinguishing Media

No information available.

#### Special hazards arising from the substance or mixture

No specific hazard known.

#### Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary

### Section 6: ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

#### Personal precautions

Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

#### For emergency responders

Use personal protection recommended in Section 8.

#### Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

#### Methods and material for containment and cleaning up

#### Methods for cleaning up

Take up mechanically, placing in appropriate containers for disposal.

#### Reference to other sections

#### **Other Information**

See also section 8,13

### Section 7: HANDLING AND STORAGE

#### Precautions for safe handling

#### Advice on safe handling

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Use with local exhaust ventilation.

#### **General Hygiene Considerations**

When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Regular cleaning of equipment, work area and clothing is recommended. Do not eat, drink or smoke when using this product.

#### Conditions for safe storage, including any incompatibilities

#### **Storage Conditions**

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers.

#### Specific end use(s)

#### Risk Management Methods (RMM)

The information required is contained in this Material Safety Data Sheet.

### Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### National occupational exposure limits

Chemical Name	European Union	United Kingdom	France	Spain	Germany
2-Ethylhexan-1-ol					TWA: 10 ppm
104-76-7					TWA: 54 mg/m <sup>3</sup>
					Ceiling / Peak: 10 ppm
					Ceiling / Peak: 54
					mg/m <sup>3</sup>
					TWA: 20 ppm
					TWA: 110 mg/m <sup>3</sup>
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
2-Ethylhexan-1-ol	Skin	STEL: 20 ppm	STEL: 320 mg/m <sup>3</sup>		
104-76-7	STEL 100 ppm	STEL: 110 mg/m <sup>3</sup>	TWA: 160 mg/m <sup>3</sup>		
	STEL 540 mg/m <sup>3</sup>	TWA: 20 ppm	_		
	TWA: 50 ppm	TWA: 110 mg/m <sup>3</sup>			
	TWA: 270 mg/m <sup>3</sup>	-			

#### Exposure controls

Engineering Controls	Ensure adequate ventilation, especially in confined areas.
Personal protective equipment	
Eye/face protection	Tight sealing safety goggles.
Hand Protection	Gloves made of plastic or rubber.
Body Protection	Suitable protective clothing, Apron, Gloves made of plastic or rubber, Rubber boots, Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.
Respiratory protection	Use only with adequate ventilation.
General Hygiene Considerations	When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Regular cleaning of equipment, work area and clothing is recommended. Do not eat, drink or smoke when using this product.
Environmental exposure controls	Do not allow into any sewer, on the ground or into any body of water.

# Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### Physical and Chemical Properties

<u>Property</u> Appearance Physical state Color Odor Odor threshold	Values : Liquid : clear yellow : characteristic : No data available	<u>Method</u>	<u>Remarks</u>
pH Melting point/freezing point °C Boiling point/boiling range °C Flash point °C	<ul> <li>10 data available</li> <li>5.8 - 5.97</li> <li>-</li> <li>No data available</li> <li>65.5</li> </ul>		1 % aqueous solution Not Applicable
Evaporation rate Flammability (solid, gas) Upper/lower flammability or explosive limits	<ul> <li>Not applicable for liquids</li> <li>No data available</li> </ul>		No data available
Vapor pressure kPa Vapor density Relative density	: - : No data available : 0.913 - 0.932		Not Applicable
Solubility(ies) mg/l Partition Coefficient (n-octanol/water) Log Pow Autoignition temperature °C Decomposition temperature °C	: - : 390 : No data available		Not Applicable See Section 12 for more information
Kinematic viscosity mm2/s 40 °C Explosive properties Oxidizing properties	: 2.315 : Not an explosive : Not expected		
Other Information Bulk density g/ml Surface tension mN/m	: : 27.9		Not Applicable

# Section 10: STABILITY AND REACTIVITY

### Reactivity

Not available.

#### Chemical stability

Stable under normal conditions.

#### Possibility of Hazardous Reactions

None under normal processing.

#### Conditions to avoid

Heat, flames and sparks.

#### Incompatible Materials

No information available

### Hazardous Decomposition Products

None under normal use conditions.

# Section 11: TOXICOLOGY INFORMATION

#### Information on toxicological effects

Acute toxicity		Values	Creatian	Mathad	Domosko
Oral LD50 mg/kg Dermal LD50 mg/kg Inhalation LC50 mg/l/4h Skin corrosion/irritation Serious eye damage/eye irritation Respiratory/skin sensitization	:	Values 430 > 2000 1.25 Irritating to skin Irritating to eyes Not a sensitizer	<u>Species</u> Rat Rat Rat Rabbit Rabbit Guinea pig	Method OECD 401 OECD 402 OECD 403 OECD 404 OECD 405 OECD 406	<u>Remarks</u>
Chronic toxicity					
Germ cell mutagenicity Chemical Name Deltamethrin	:	Not classified			
<b>Carcinogenicity Chemical Name</b> Deltamethrin	:	Not Carcinogenic			
Reproductive toxicity . Chemical Name Deltamethrin	:	Not toxic for the reproductive	system		
STOT - single exposure Chemical Name Deltamethrin	:	No information available			
STOT - repeated exposure Chemical Name Deltamethrin	:	No information available			
Aspiration hazard Chemical Name Deltamethrin	:	No information available			

# Section 12: ECOLOGICAL INFORMATION

# Toxicity

# Aquatic toxicity

Acute toxicity Fish 96-hour LC50 mg/l Crustacea 48-hour EC50 mg/l Algae 72-hour EC50 mg/l	: : :	<u>Values</u> 0.03941 0.00212 35.15	<u>Species</u> Zebra Fish Daphnia magna Selenastrum	Method OECD 203 OECD 202	<u>Remarks</u>
Other plants EC50 mg/l	:		capricornutum		No data available
Terrestrial Toxicity Birds Oral LD50 mg/kg Chemical Name Deltamethrin	:	> 2000	Japanese quail		
Bees Oral LD50 μg/bee Chemical Name Deltamethrin	:	0.079			
Persistence and degradability					
Abiotic Degradation Water DT50 days Chemical Name Deltamethrin	:	<u>Values</u> < 5		<u>Method</u>	<u>Remarks</u>
Soil DT50 days Chemical Name Deltamethrin	:	20 - 28			
Biodegradation Chemical Name Deltamethrin	:	Not readily biodeg	gradable		
Bioaccumulative potential					
Partition Coefficient (n-octanol/water) Partition Coefficient (n-octanol/water) Log Pow Chemical Name		<u>Values</u>		<u>Method</u>	<u>Remarks</u>
Deltamethrin	:	3.8			
Bioconcentration factor (BCF) Chemical Name Deltamethrin	:	1400			No bioaccumulation potential
Mobility in soil					
Adsorption/Desorption Chemical Name		<u>Values</u>		<u>Method</u>	<u>Remarks</u>
Deltamethrin	:	10240000			Кос
Results of PBT and vPvB assessm	ent	_			
The components in this formulation do not meet the criteria for classification as PBT or vPvB					
Other adverse effects					

No information available.

# Section 13: DISPOSAL CONSIDERATIONS

### Waste treatment methods

Waste from residues/unused products	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging	Improper disposal or reuse of this container may be dangerous and illegal.
Other Information	Waste codes should be assigned by the user based on the application for which the product was used.

# Section 14: TRANSPORTATION INFORMATION

IMDG/IMO UN/ID No * Proper shipping name Hazard Class Packing Group Marine pollutant Special precautions for user	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Deltamethrin) 9 III Yes
<u>RID/ADR</u> UN/ID No * Proper shipping name Hazard Class Packing Group Environmental hazard Special precautions for user	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Deltamethrin) 9 III Yes
ICAO/IATA UN/ID No * Proper shipping name Hazard Class Packing Group Environmental hazard Special precautions for user Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Deltamethrin) 9 III Yes Not Applicable



\* Note: UN3077 & UN3082 – These products may be transported as non-dangerous goods under the special provisions of IMDG Code 2.10.2.7; ADR SP375 and ICAO/IATA A197 when packed in single or inner packaging of up to 5L for liquids or 5 kg or less for solids.

# Section 15: REGULATORY INFORMATION

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

# Section 16: OTHER INFORMATION

#### **Revision Note**

Changes made to the last version are labeled with this sign \*\*\*.

#### List of Acronyms

- European Agreement concerning the International Carriage of Dangerous Goods by Road ADR -
- ADN -European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
- CAS Number -Chemical Abstracts Service number
- EC Number -EINECS and ELINCS Number
- EINECS European Inventory of Existing Commercial Substances
- ELINCS European List of notified Chemical Substances
- International Air Transport Association IATA -
- ICAO-TI Technical Instructions for the Safe Transport of Dangerous Goods by Air
- IMDG -International Maritime Dangerous Goods
- LC50 -Lethal Concentration to 50 % of a test population
- LD50 -Lethal Dose to 50% of a test population (Median Lethal Dose) Organization for Economic Co-operation and Development
- OECD -PBT -Persistent, Bioaccumulative and Toxic substance
- Regulations concerning the International Carriage of Dangerous Goods by Rail RID -
- STOT -Specific Target Organ Toxicity
- Very Persistent and Very Bioaccumulative vPvB -

#### Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**