

SECTION 1: Identification

1.1. Product identifier

| | |
|-----------------|--|
| Product form | : Mixture |
| Trade name | : Lascar 500 EC (Chlorpyrifos 450 + Cypermethrin 50 g/l) |
| Type of product | : Insecticide |
| CAS-No. | : [2921-88-2] [52315-07-8] |
| Product group | : End product |

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

| | |
|------------------------------|---|
| Use of the substance/mixture | : A contact and stomach insecticide formulated as an emulsifiable concentrate for the control of various pests on crops as indicated. |
|------------------------------|---|

1.3. Supplier's details

Supplier

Farm-Ag International (Pty) Ltd
Old Mill Industrial Park
61, Marshall Drive
P.O. Box 1523
4300 Mount Edgecombe – Durban KwaZulu Natal
South Africa
T 031 003 3486

1.4. Emergency telephone number

| | |
|------------------|--|
| Emergency number | : 24 Hr Emergency Number: In case of Poisoning: Poison Information Helpline : 0861 555 777 |
| | In case of Spillage: HAZMAT:0800 147 112 |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

| | |
|---|------|
| Flammable liquids Not classified | |
| Acute toxicity (oral), Category 3 | H301 |
| Acute toxicity (dermal), Category 5 | H313 |
| Skin corrosion/irritation, Category 3 | H316 |
| Serious eye damage/eye irritation, Category 1 | H318 |
| Specific target organ toxicity – Repeated exposure, Category 2 | H373 |
| Hazardous to the aquatic environment – Acute Hazard, Category 1 | H400 |
| Hazardous to the aquatic environment – Chronic Hazard, Category 1 | H410 |
| Full text of H-statements: see section 16 | |

2.2. Label elements

Labelling according to the United Nations GHS

Hazard pictograms (GHS ZA)



Signal word (GHS-ZA) : Danger

Lascar 500 EC (Chlorpyrifos 450 + Cypermethrin 50 g/l)

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according to SANS 10234:2019 and SANS 11014:2010

| | |
|-----------------------------------|---|
| Hazardous ingredients | : Chlorpyrifos 98% TC, Cypermethrin 97% TC, Alkylbenzene sulfonate, ricinus oil, ethoxylated, Solvent Naphtha |
| Hazard statements (GHS ZA) | : H301 - Toxic if swallowed. H313 - May be harmful in contact with skin H316 - Causes mild skin irritation H318 - Causes serious eye damage. H373 - May cause damage to organs (eyes) through prolonged or repeated exposure. H410 - Very toxic to aquatic life with long lasting effects. |
| Precautionary statements (GHS ZA) | : P101 - If medical advice is needed, have product container or label at hand. P102 - Keep out of reach of children. P103 - Read label before use. P260 - Do not breathe vapour, spray. P264 - Wash hands, forearms and face thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P273 - Avoid release to the environment. P280 - Wear protective clothing, eye protection, face protection, protective gloves. P301+P310 - IF SWALLOWED: Immediately call a doctor. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a doctor. P312 - Call a doctor if you feel unwell. P314 - Get medical attention if you feel unwell. P321 - Specific treatment (see supplemental first aid instruction on this label). P330 - Rinse mouth. P332+P313 - If skin irritation occurs: Get medical advice. P391 - Collect spillage. P405 - Store locked up. P501 - Dispose of contents and container to an approved waste disposal plant. |

2.3. Other hazards

| | |
|---|--|
| Adverse physicochemical, human health and environmental effects | : May cause damage to organs through prolonged or repeated exposure, Fatal if inhaled, Harmful if swallowed, Causes mild skin irritation, Causes serious eye damage, Very toxic to aquatic life with long lasting effects. |
|---|--|

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to the United Nations GHS |
|---------------------|---------------------|-------------|--|
| Chlorpyrifos 98% TC | CAS-No.: 2921-88-2 | ≥ 40 – < 45 | Acute Tox. 3 (Oral), H301 Acute Tox. 5 (Dermal), H313 Acute Tox. 2 (Inhalation:dust,mist), H330 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100) |
| Solvent Naphtha | CAS-No.: 64742-94-5 | ≥ 40 – < 45 | Flam. Liq. 3, H226 Acute Tox. Not classified (Oral) Acute Tox. 5 (Dermal), H313 Eye Irrit. 2A, H319 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 2, H411 |

Lascar 500 EC (Chlorpyrifos 450 + Cypermethrin 50 g/l)

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| Name | Product identifier | % | Classification according to the United Nations GHS |
|--------------------------|---------------------|------------|--|
| Alkylbenzene sulfonate | CAS-No.: 68953-96-8 | ≥ 5 – < 10 | Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H336 STOT SE 3, H335 |
| ricinus oil, ethoxylated | CAS-No.: 61791-12-6 | ≥ 5 – < 10 | Flam. Liq. Not classified Acute Tox. 5 (Oral), H303 Acute Tox. 5 (Dermal), H313 Eye Irrit. 2A, H319 Aquatic Acute 3, H402 |
| Cypermethrin 97% TC | CAS-No.: 52315-07-8 | ≥ 1 – < 5 | Acute Tox. 5 (Oral), H303 Acute Tox. 5 (Dermal), H313 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:dust,mist), H332 STOT SE 3, H335 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|--|
| First-aid measures general | : Call a physician immediately. Never give fluids or induce vomiting if patient is unconscious or is having convulsions. |
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. Call a physician immediately. Call a doctor. |
| First-aid measures after skin contact | : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention. |
| First-aid measures after eye contact | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately. |
| First-aid measures after ingestion | : If swallowed, do not induce vomiting. Call a physician and/or transport the patient to an emergency facility immediately. |

4.2. Most important symptoms and effects, both acute and delayed

| | |
|-------------------------------------|---|
| Symptoms/effects | : Symptom of poisoning: Acute poisoning will be manifest as typical symptoms of OP insecticide poisoning, as chlorpyrifos is present at ten fold higher concentration than cypermethrin. The signs of symptoms are any combination of dizziness, headache, pin point pupils, blurred vision, stomach pain, excessive sweating, salivation, nausea and muscle twitching. The symptoms of poisoning with cypermethrin include trembling, ataxia, poor muscular coordination, allergies, localized skin effects (itching, coldness, numbness etc.). |
| Symptoms/effects after skin contact | : Irritation. |
| Symptoms/effects after eye contact | : Serious damage to eyes. |

4.3. Indication of any immediate medical attention and special treatment needed

This material contains both a cholinesterase inhibitor and a solvent. Signs of poisoning may include dizziness, nausea, vomiting, intestinal spasms, diarrhoea, contracted pupils and difficulty in breathing.

Atropine by intravenous administration is the antidote of choice. Oximes may or may not be therapeutic but it is recommended that they should not be used in place of atropine.

If lavage is performed, suggest endotracheal and/or oesophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. Supportive care. Treatment based on judgement of physician in response to symptoms of patient.

Lascar 500 EC (Chlorpyrifos 450 + Cypermethrin 50 g/l)

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according to SANS 10234:2019 and SANS 11014:2010

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Class B foam (alcohol-resistant). Carbon dioxide. Water spray. Dry chemical.
Unsuitable extinguishing media : Do not use direct jet of water. Avoid water coming in contact with the product.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : During a fire, smoke may contain the original material in addition to unidentified toxic and/or irritating compounds. Hazardous combustion products may include and are not limited to sulfur oxides, phosphorus compounds, nitrogen oxides, hydrogen chloride, carbon monoxide, and carbon dioxide. Dense smoke is produced when product burns. Mechanical handling can cause formation of dusts. To reduce the potential for dust explosion, do not permit dust to accumulate. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids. Container may rupture from gas generation in a fire situation.
- Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

- Firefighting instructions : Keep people away. Isolate fire area and deny unnecessary entry. Consider feasibility of a controlled burn to minimize environmental damage. Foam fire extinguishing system is preferred because uncontrolled water can spread possible contamination. Hand held carbon dioxide or dry chemical extinguishers may be used for small fires. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage. Water fog, applied gently may be used as a blanket for fire extinguishment. Do not use direct water stream. May spread fire. Fight fire from protected location or safe distance.
- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
- Personal protection (Emergency response) : Gloves, Protective clothing, Use breathing equipment (SCBA)



SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No additional information available

6.1.1. For non-emergency personnel

- Emergency procedures : Do not breathe mist, spray. Only qualified personnel equipped with suitable protective equipment may intervene.

6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

- For containment : Collect spillage.
- Methods for cleaning up : Take up liquid spill into absorbent material.
- Other information : Dispose of materials or solid residues at an authorized site.

Lascar 500 EC (Chlorpyrifos 450 + Cypermethrin 50 g/l)

Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Do not breathe dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. Wear personal protective equipment.
- Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Chlorpyrifos 98% TC (2921-88-2) | |
|--|--|
| South Africa - Occupational Exposure Limits (Recommended Limits) | |
| Local name | Chlorpyrifos |
| OEL TWA | 0 mg/m ³ (IFV: inhalable fraction and vapour) |
| Remark | SKIN (danger of cutaneous absorption) |
| Regulatory reference | Government Notice No. R. 280, 2021 |
| South Africa - Occupational Exposure Limits (Airborne Pollutants) | |
| Local name | Chlorpyrifos |
| OEL TWA | 0 mg/m ³ |
| OEL STEL | 1 mg/m ³ |
| Remark | Sk (Danger of cutaneous absorption) |
| Regulatory reference | Government Notice No. R 904 |

8.2. Appropriate engineering controls

- Appropriate engineering controls : Ensure good ventilation of the work station.
- Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment (PPE)

- Hand protection : Protective gloves
- Eye protection : Safety glasses
- Skin and body protection : Wear suitable protective clothing
- Respiratory protection : [In case of inadequate ventilation] wear respiratory protection.

Personal protective equipment symbol(s):



8.4. Exposure limit values for the other components

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid

Lascar 500 EC (Chlorpyrifos 450 + Cypermethrin 50 g/l)

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according to SANS 10234:2019 and SANS 11014:2010

| | |
|---|-----------------------------|
| Appearance | : Liquid. |
| Colour | : clear. |
| Odour | : Aromatic (solvent) odour. |
| Odour threshold | : No data available |
| pH | : No data available |
| pH solution | : No data available |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Relative evaporation rate (ether=1) | : No data available |
| Melting point | : Not applicable |
| Freezing point | : < -5 °C |
| Boiling point | : No data available |
| Flash point | : > 100 °C |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : Not applicable |
| Vapour pressure | : No data available |
| Vapour pressure at 50 °C | : No data available |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : 1.1 |
| Relative density of saturated gas/air mixture | : No data available |
| Density | : No data available |
| Relative gas density | : No data available |
| Solubility | : Emulsifiable. |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Partition coefficient n-octanol/water (Log Kow) | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive properties | : No data available |
| Oxidising properties | : No data available |
| Explosive limits | : No data available |
| Lower explosion limit | : No data available |
| Upper explosion limit | : No data available |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Lascar 500 EC (Chlorpyrifos 450 + Cypermethrin 50 g/l)

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according to SANS 10234:2019 and SANS 11014:2010

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|-----------------------------|--|
| Acute toxicity (oral) | : Toxic if swallowed. |
| Acute toxicity (dermal) | : May be harmful in contact with skin. |
| Acute toxicity (inhalation) | : Not classified |

Lascar 500 EC (Chlorpyrifos 450 + Cypermethrin 50 g/l) ([2921-88-2] [52315-07-8])

| | |
|--|--|
| ATE ZA (oral) | 156.925 mg/kg bodyweight |
| ATE ZA (Dermal) | 2645.503 mg/kg bodyweight |
| Unknown acute toxicity (GHS ZA)Unknown acute toxicity (GHS ZA) | 47.22% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral) 5.5% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) 95.28% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Vapours)) |

Chlorpyrifos 98% TC (2921-88-2)

| | |
|-----------------------------------|---|
| LD ₅₀ oral rat | 135 – 163 mg/kg (Rat, Literature study, Oral) |
| LD ₅₀ oral | 504 mg/kg Guinea pigs |
| LD ₅₀ dermal rabbit | > 5000 mg/kg (Rabbit, Literature study, Dermal) |
| LD ₅₀ dermal | > 2000 mg/kg Rats |
| LC ₅₀ Inhalation - Rat | > 0.2 mg/l (4 h, Rat, Inhalation) |

Cypermethrin 97% TC (52315-07-8)

| | |
|-----------------------------------|----------------------|
| LD ₅₀ oral rat | 250 – 4150 mg/kg |
| LD ₅₀ dermal rat | > 4920 mg/kg |
| LC ₅₀ Inhalation - Rat | > 2.5 mg/l (4 hours) |

ricinus oil, ethoxylated (61791-12-6)

| | |
|-----------------------------|--|
| LD ₅₀ oral rat | > 2000 mg/kg bodyweight (Rat, Male, Oral) |
| LD ₅₀ dermal rat | > 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s)) |

Solvent Naphtha (64742-94-5)

| | |
|--------------------------------|-------------------------|
| LD ₅₀ oral rat | > 5000 mg/kg bodyweight |
| LD ₅₀ dermal rabbit | > 2000 mg/kg bodyweight |

| | |
|-----------------------------------|---|
| Skin corrosion/irritation | : Slightly irritating |
| Serious eye damage/irritation | : Severely irritating to eyes. Risk of serious eye damage |
| Respiratory or skin sensitisation | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : Not classified |

Cypermethrin 97% TC (52315-07-8)

| | |
|----------------------|-----------------------------------|
| STOT-single exposure | May cause respiratory irritation. |
|----------------------|-----------------------------------|

Alkylbenzene sulfonate (68953-96-8)

| | |
|------------------------|---|
| STOT-single exposure | May cause drowsiness or dizziness. May cause respiratory irritation. |
| STOT-repeated exposure | : May cause damage to organs (eyes) through prolonged or repeated exposure. |

Cypermethrin 97% TC (52315-07-8)

| | |
|--|--|
| | May cause damage to organs through prolonged or repeated exposure. |
|--|--|

Lascar 500 EC (Chlorpyrifos 450 + Cypermethrin 50 g/l)

Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010

| Solvent Naphtha (64742-94-5) | |
|--|--|
| LOAEL (oral, rat, 90 days) | 1250 mg/kg bodyweight Animal: rat, Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents) |
| LOAEL (dermal, rat/rabbit, 90 days) | 200 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study) |
| LOAEC (inhalation, rat, vapour, 90 days) | 4.71 mg/l air Animal: rat, Guideline: EU Method B.29 (Sub-Chronic Inhalation Toxicity:90-Day Study) |
| NOAEL (oral, rat, 90 days) | 625 mg/kg bodyweight Animal: rat, Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents) |
| NOAEL (dermal, rat/rabbit, 90 days) | 2000 mg/kg bodyweight Animal: rabbit, Animal sex: male, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study) |
| NOAEC (inhalation, rat, vapour, 90 days) | 2355 mg/l air Animal: rat, Guideline: EU Method B.29 (Sub-Chronic Inhalation Toxicity:90-Day Study) |
| | May cause damage to organs through prolonged or repeated exposure. |

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Very toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute) : Very toxic to aquatic life.
Hazardous to the aquatic environment, long-term (chronic) : Very toxic to aquatic life with long lasting effects.

| Chlorpyrifos 98% TC (2921-88-2) | |
|--|--|
| LC ₅₀ - Fish [1] | 0.002 – 0.01 mg/l Bluegill sunfish |
| LC ₅₀ - Fish [2] | 0.007 – 0.051 mg/l Rainbow Trout |
| NOEC chronic algae | > 0.4 mg/l |
| BCF - Fish [1] | 870 (Calculated value) |
| BCF - Other aquatic organisms [1] | 1 – 10 mg/l (120 h, Algae, Dry weight) |
| Partition coefficient n-octanol/water (Log Pow) | 4.7 (Calculated, 20 °C) |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 3.862 – 3.898 (log Koc, Estimated value) |
| Additional ecotoxicological information | Birds: For Mallard ducks >490, house sparrows 122, chickens 32 – 102 mg/kg; Dietary (8d) for mallard ducks 180, bobwhite quail 423 ppm. Bees: (oral) 360 ug/bee (Contact) 70 ug/bee. toxic to bees. Earthworms: (15 d) for Eisenia foetida 210 mg/kg soil. |

| Cypermethrin 97% TC (52315-07-8) | |
|---|--|
| LC ₅₀ - Fish [1] | 0.69 mg/kg Rainbow Trout (96h) |
| LC ₅₀ - Fish [2] | 2.37 mg/kg Sheepshead Minnows |
| Partition coefficient n-octanol/water (Log Kow) | 6.6 |
| Additional ecotoxicological information | Birds: Mallard ducks > 10 000 mg/kg; Chickens > 2000 mg/kg. Bees: LD ₅₀ (oral): 0.035 µg a.s./bee, LD ₅₀ (topical): 0.02 µg/bee. Earthworms: LC ₅₀ > 100 mg a.s./kg soil. |

| ricinus oil, ethoxylated (61791-12-6) | |
|---------------------------------------|--|
| LC ₅₀ - Fish [1] | > 45 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Static system, Fresh water, Experimental value) |

Lascar 500 EC (Chlorpyrifos 450 + Cypermethrin 50 g/l)

Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010

| ricinus oil, ethoxylated (61791-12-6) | |
|--|--|
| ErC ₅₀ algae | > 93 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Fresh water, Experimental value) |
| BCF - Fish [1] | 3.162 (Pisces, Calculated value) |
| Partition coefficient n-octanol/water (Log Pow) | 1.33 (Experimental value, 23 °C) |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 10 (log Koc, Calculated value) |

| Solvent Naphtha (64742-94-5) | |
|-------------------------------------|---|
| LC ₅₀ - Fish [1] | 8.41 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) |
| EC ₅₀ - Crustacea [1] | 4.7 mg/l Test organisms (species): Daphnia magna |
| EC ₅₀ 72h - Algae [1] | 12.4 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| EC ₅₀ 72h - Algae [2] | 18.9 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |

12.2. Persistence and degradability

| Lascar 500 EC (Chlorpyrifos 450 + Cypermethrin 50 g/l) ([2921-88-2] [52315-07-8]) | |
|--|-------------------------------------|
| Persistence and degradability | No additional information available |

| Chlorpyrifos 98% TC (2921-88-2) | |
|--|-------------------------------------|
| Persistence and degradability | Not readily biodegradable in water. |

| Cypermethrin 97% TC (52315-07-8) | |
|---|--|
| Persistence and degradability | Soil degradation, median DT ₅₀ 35 d (EU Rev. Rep.). |

| ricinus oil, ethoxylated (61791-12-6) | |
|--|---------------------------------|
| Persistence and degradability | Readily biodegradable in water. |

12.3. Bioaccumulative potential

| Lascar 500 EC (Chlorpyrifos 450 + Cypermethrin 50 g/l) ([2921-88-2] [52315-07-8]) | |
|--|-------------------------------------|
| Bioaccumulative potential | No additional information available |

| Chlorpyrifos 98% TC (2921-88-2) | |
|--|---|
| BCF - Fish [1] | 870 (Calculated value) |
| BCF - Other aquatic organisms [1] | 1 – 10 mg/l (120 h, Algae, Dry weight) |
| Partition coefficient n-octanol/water (Log Pow) | 4.7 (Calculated, 20 °C) |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 3.862 – 3.898 (log Koc, Estimated value) |
| Bioaccumulative potential | Potential for bioaccumulation (500 ≤ BCF ≤ 5000). |

| Cypermethrin 97% TC (52315-07-8) | |
|---|-----|
| Partition coefficient n-octanol/water (Log Kow) | 6.6 |

| ricinus oil, ethoxylated (61791-12-6) | |
|--|----------------------------------|
| BCF - Fish [1] | 3.162 (Pisces, Calculated value) |
| Partition coefficient n-octanol/water (Log Pow) | 1.33 (Experimental value, 23 °C) |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 10 (log Koc, Calculated value) |

Lascar 500 EC (Chlorpyrifos 450 + Cypermethrin 50 g/l)

Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010

ricinus oil, ethoxylated (61791-12-6)

| | |
|---------------------------|--|
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |
|---------------------------|--|

12.4. Mobility in soil

Lascar 500 EC (Chlorpyrifos 450 + Cypermethrin 50 g/l) ([2921-88-2] [52315-07-8])

| | |
|------------------|-------------------------------------|
| Mobility in soil | No additional information available |
|------------------|-------------------------------------|

Chlorpyrifos 98% TC (2921-88-2)

| | |
|--|--|
| Surface tension | No data available in the literature |
| Partition coefficient n-octanol/water (Log Pow) | 4.7 (Calculated, 20 °C) |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 3.862 – 3.898 (log Koc, Estimated value) |
| Ecology - soil | Low potential for mobility in soil. Toxic to bees. May be harmful to plant growth, blooming and fruit formation. |

Cypermethrin 97% TC (52315-07-8)

| | |
|---|-----|
| Partition coefficient n-octanol/water (Log Kow) | 6.6 |
|---|-----|

ricinus oil, ethoxylated (61791-12-6)

| | |
|--|-------------------------------------|
| Surface tension | 35.1 mN/m (23 °C) |
| Partition coefficient n-octanol/water (Log Pow) | 1.33 (Experimental value, 23 °C) |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 10 (log Koc, Calculated value) |
| Ecology - soil | Low potential for mobility in soil. |

12.5. Other adverse effects

Ozone : Not classified
Other adverse effects : No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information


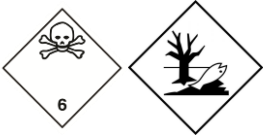
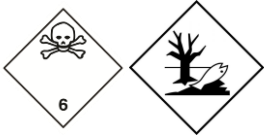
In accordance with SANS / IMDG / IATA

| SANS | IMDG | IATA |
|---|---|---|
| 14.1. UN number | | |
| 2902 | 2902 | 2902 |
| 14.2. Proper Shipping Name | | |
| PESTICIDE, LIQUID, TOXIC, N.O.S. (contains chlorpyrifos 450, cypermethrin 50 g/l) | PESTICIDE, LIQUID, TOXIC, N.O.S. (contains chlorpyrifos 450, cypermethrin 50 g/l) | Pesticide, liquid, toxic, n.o.s. (contains chlorpyrifos 450, cypermethrin 50 g/l) |
| 14.3. Transport hazard class(es) | | |
| 6.1 | 6.1 | 6.1 |

Lascar 500 EC (Chlorpyrifos 450 + Cypermethrin 50 g/l)

Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010

| SANS | IMDG | IATA |
|---|---|---|
|  |  |  |
| 14.4. Packing group | | |
| II | II | II |
| 14.5. Environmental hazards | | |
| Dangerous for the environment : Yes | Dangerous for the environment : Yes Marine pollutant : Yes | Dangerous for the environment : Yes |
| No supplementary information available | | |

14.6. Special precautions for user

SANS

| | |
|---|-------------------|
| Special provisions (SANS) | : 61, 274 |
| Limited quantities (SANS) | : 100 ml |
| Limited quantities (SANS) | : 100 ml |
| Packagings, large packagings and IBCs Packing instructions (SANS) | : P001, IBC02 |
| Portable tank and bulk containers instructions (SANS) | : T11 |
| Portable tank and bulk container special provisions (SANS) | : TP2, TP13, TP27 |

IMDG

| | |
|------------------------------------|---|
| Special provisions (IMDG) | : 61, 274 |
| Limited quantities (IMDG) | : 100 ml |
| Excepted quantities (IMDG) | : E4 |
| Packing instructions (IMDG) | : P001 |
| IBC packing instructions (IMDG) | : IBC02 |
| Tank instructions (IMDG) | : T11 |
| Tank special provisions (IMDG) | : TP2, TP13, TP27 |
| EmS-No. (Fire) | : F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE |
| EmS-No. (Spillage) | : S-A - SPILLAGE SCHEDULE Alfa - TOXIC SUBSTANCES |
| Stowage category (IMDG) | : B |
| Properties and observations (IMDG) | : Liquid pesticides which present a very wide range of toxic hazard. Miscibility with water depends upon the composition. Toxic if swallowed, by skin contact or by inhalation. |

IATA

| | |
|--|----------|
| PCA Excepted quantities (IATA) | : E4 |
| PCA Limited quantities (IATA) | : Y641 |
| PCA limited quantity max net quantity (IATA) | : 1L |
| PCA packing instructions (IATA) | : 654 |
| PCA max net quantity (IATA) | : 5L |
| CAO packing instructions (IATA) | : 662 |
| CAO max net quantity (IATA) | : 60L |
| Special provisions (IATA) | : A3, A4 |
| ERG code (IATA) | : 6L |

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health, and environmental national regulations specific for the product

No additional information available

Lascar 500 EC (Chlorpyrifos 450 + Cypermethrin 50 g/l)

Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010

SECTION 16: Other information

Issue date : 30/08/2022

| Full text of H-statements | |
|---------------------------|--|
| H226 | Flammable liquid and vapour. |
| H301 | Toxic if swallowed. |
| H303 | May be harmful if swallowed |
| H304 | May be fatal if swallowed and enters airways. |
| H312 | Harmful in contact with skin. |
| H313 | May be harmful in contact with skin |
| H315 | Causes skin irritation. |
| H316 | Causes mild skin irritation |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H330 | Fatal if inhaled. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H401 | Toxic to aquatic life |
| H402 | Harmful to aquatic life |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |

Safety Data Sheet (SDS), South Africa

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.