# growing goodness



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**REG NO:** 2000/010819/07 **VAT NO:** 4120189206

### **Safety Data Sheet**

## **ARGENTO L10036** (Act 36 of 1947)

Product name: Other means of identification: Iprovalicarb 250 g/L SC Chemical Name: Iprovalicarb (IUPAC): isopropyl 2-methyl-1-[(iptolylethyl)carbomyl]-(S)-propylcarbamate Recommended use: Restrictions on use: UN No: Oistributed by:  Distributed by:  Emergency Number:  Emergency Number:  POISON CENTRE (UNITAS HOSPITAL) O12 664 1100 TYGERBERG:021 931 6129 RED CROSS 021 689 5227 RAPID SPILL RESPONSE 0800 775 3305 GRIFFON POISON CENTRE: 082 446 8946  2) HAZARDS IDENTIFICATION: Classification of the substance/mixture:  Acute Toxicity (Oral) Category 4 STOT RE Category 2 (kidney, heart, central in liver, oral) STOT SE Category 2 Mutagenicity Category 1B Reproductive Category 1B	
Iprovalicarb (IUPAC): isopropyl 2-methyl-1-[(intolylethyl)carbomyl]-(S)-propylcarbamate	
Recommended use:  Restrictions on use:  Agriculture  UN No:  Distributed by:  MERIDIAN AGRITECH P O BOX 436 MODDERFONTEIN TEL 011 8228509 FAX 0866901386 MOBILE: 0834006056 www.agritech.co.za  Emergency Number:  POISON CENTRE (UNITAS HOSPITAL) 012 664 1100 TYGERBERG:021 931 6129 RED CROSS 021 689 5227 RAPID SPILL RESPONSE 0800 775 3305 GRIFFON POISON CENTRE: 082 446 8946  2) HAZARDS IDENTIFICATION:  Classification of the substance/mixture:  Acute Toxicity (Oral) Category 4 STOT RE Category 2 (kidney, heart, central in liver, oral) STOT SE Category 2 Eye Irritation Category 2 Mutagenicity Category 1B	
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STOT RE Category 2 (kidney, heart, central n liver, oral) STOT SE Category 3 Skin Irritation Category 2 Eye Irritation Category 2 Mutagenicity Category 1B	
Aquatic Chronic Category 3	nervous system,
Label Elements: Globally Harmonized System, EU (GHS):  Signal word: Warning  Hazard Statements: H302: Harmful if swallowed. H315: Causes skin irritation. H319: Causes serious eye irritation. H336: May cause drowsiness and dizziness. H340: May cause genetic defects. H360: May damage fertility or the unborn child H373: May cause damage to organs through repeated exposure. H412: Harmful to aquatic life with long-lasting  Precautionary Statements: P201: Obtain special instructions before use. P202: Do not handle until all safety precaution	prolonged or

P262: Do not get in eyes, on skin, or on clothing.

**P263:** Avoid contact during pregnancy or while nursing. **P270:** Do not eat, drink or smoke when using the product.

**P270.** Do not eat, drink of smoke when using the product. **P272:** Contaminated work clothing should not be allowed out of the workplace.

P273: Avoid release to the environment.

**P280:** Wear protective gloves, protective clothing, eye protection.

P321: Specific treatment (See First aid measures on this label)

**P362+P364:** Take off contaminated clothing and wash it before reuse.

P405: Store locked up.

#### Hazard Symbol(s):

Xi - Irritant

N – dangerous for the environment

#### R-phrase(s):

**R22:** Harmful by inhalation, in contact with skin and if swallowed.

R38: Irritating to skin.

R41: Risk of serious damage to eyes.

R46: May cause heritable genetic damage.

**R48/22:** Harmful: danger of serious damage to health by prolonged exposure if swallowed.

R52/53: Harmful to aquatic organisms may cause long-term

adverse effects in the aquatic environment.

R60: May impair fertility.

#### S-phrase(s):

\$1/2: Keep locked up and out of the reach of children.

**S7:** Keep container tightly closed.

**\$13:** Keep away from food, drink and animal feeding stuffs.

\$18: Handle and open container with care.

\$20/21: When using, do not eat drink or smoke.

**\$24/25:** Avoid contact with skin and eyes.

**S26:** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**S36/37/39:** Wear suitable protective clothing, gloves and eye/face protection.

**S35:** This material and its container must be disposed of in a safe way.

**S46:** If swallowed, seek medical advice immediately and show this container.

**S57:** Use appropriate containment to avoid environmental contamination.

**S60:** This material and its container must be disposed of as a hazardous waste.

**S62:** If swallowed, do not induce vomiting: seek medical advice immediately

#### 3) COMPOSITION / INFORMATION ON INGREDIENTS:

According to Directive 67/548/EEC No. 1272/2008 [CLP]

#### 3.1 Substances:

Not applicable

#### 3.2 Mixtures:

Chemical name	Concentration	CAS No.	EC No.	Classification according to Regulation EC 1272/2008 (CLP)
Iprovalicarb	250 g/L	140923-17-7	604-209-3	
Ethylene glycol	40.6 g/L	107-21-1	203-473-30	Acute Tox. Cat. 4 (H302) STOT RE Cat. 2 (H373, kidney, heart, central nervous system, liver, oral) STOT SE Cat. 3 (H336) Skin Irrit. Cat. 2 (H315) Muta. Cat. 1B (H340) Repr. Cat. 1B (H360) Aquatic Chronic Cat. 3 (H412) Eye Irrit. Cat. 2 (H319)

4) FIRST AID MEASURES:

Description of First-Aid Measures: Inhalation:  Skin contact:	Remove patient to fresh air. Loosen clothing around neck. Lie down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance if symptoms of irritation develop.
	Immediately flush body and clothes with large amounts of water. Remove contaminated clothing and footwear. Wash affected areas with a non-abrasive soap and water. Seek medical assistance if irritation occurs.
Eye contact:	Flush eyes with plenty of water for 15 minutes holding eyelids open. Remove contact lenses, if present, after the first 5 minutes. <b>Seek medical assistance</b> .
Ingestion:	Never give anything by mouth to an unconscious person. <b>Do not induce vomiting</b> . For advice, contact a medical doctor or the National Poisons Centre. Seek medical assistance immediately.
Most important symptoms and effects, both acute and delayed:	
Indication of any immediate medical attention and special treatment needed:	None known.
5) FIRE-FIGHTING MEASURES:	No specific antidote known. Treat symptomatically and supportively.
5) FIRE-FIGHTING MEASURES:	
Extinguishing Media:	Fine water spray, foam, carbon dioxide, dry chemical powder. Do not use high volume water jet, due to contamination risk.
Unsuitable Extinguishing Media:	Do not use high volume water jet, due to contamination risk.
Specific Hazards arising from the substance/mixture:	When heated to decomposition, irritant or dangerous fumes may be emitted.
Fire Fighting:	Remove spectators from surrounding area. Isolate the fire area and evacuate downwind. Use a recommended extinguishing agent for the type of surrounding fire. Fight fire from maximum distance and use unmanned hose holder or monitor nozzles. Contain fire control agents for later disposal. Avoid inhaling hazardous vapours and fumes from burning materials. Keep upwind. Remove container from fire area if possible and without risk. Water can be used to cool unaffected containers but must be contained for later disposal.
Protective clothing:	Do not scatter the material. Avoid pollution of waterways.
	Full protective clothing and self-contained breathing apparatus.
6) ACCIDENTAL RELEASE MEASURES:	
Personal precautions, protective equipment and emergency procedures:	Avoid contact with skin and eyes. Avoid ingestion of material and inhalation of vapours. For personal protection see Section 8.
Environmental precautions:	Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. Do not allow to enter drains or watercourses. If contamination of water courses is unavoidable, report to the Police and the Department of Water/Environmental Affairs immediately.
Methods and material for containment and cleaning up:	Wear protective clothing. Clear area of unprotected personnel. Contain and absorb liquid spills with an inert material (e.g. vermiculite, earth etc.), remove by scoop or vacuum. Use approved industrial vacuum cleaner for removal and place in waste containers. Wash area with water and detergent and absorb with further inert material. Heavily contaminated soil layers have to be dug out down to clean soil. If spill does enter waterways contact the local authority. Spilled product cannot be re-used and must be disposed of by incineration or disposal in a chemical waste disposal facility. If containers cannot be

recycled, they should be disposed of together with the waste chemical.

EN HANDING A STORAGE	
7) HANDLING & STORAGE:	Accepted all the send one send of the late of the send
Precautions for Safe Handling:	Avoid skin and eye contact and inhalation of spray mist. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke. Wash contaminated clothing before re-use. APPROVED HANDLER: This product must be under the control of an approved handler when applied in a wide dispersive manner; or used by a commercial contractor.
Conditions for Safe Storage, including any	Sommoroidi Somidotori.
incompatibilities:	Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs, fertilisers and seeds. Keep away from children or uninformed persons. Avoid extreme temperatures.
8) EXPOSURE CONTROL / PERSONAL PROTECTION:	
Appropriate Engineering Controls:	It is essential to provide adequate ventilation. The measures appropriate for a particular work site depend on how this material is used and on the extent of exposure. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire, and other applicable regulations.
Control Parameters: Occupational exposure limits:	NA NA
PERSONAL PROTECTIVE EQUIPMENT:	
Clothing:	Consult supplier to confirm that the equipment is suitable.
Respiratory protection:	Employee must wear appropriate protective (impervious) clothing and equipment to prevent skin contact with this substance.
Gloves:	Wear respirator if ventilation is inadequate.
Eye protection:	Employee must wear appropriate chemical-resistant gloves to prevent contact with this substance.
Emergency eye wash:	The use of safety goggles with side shields or a face shield is recommended.
	Where there is any possibility that an employee's eyes may be exposed to this substance, the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use.
9) PHYSICAL & CHEMICAL PROPERTIES:	
Appearance:	Off white to Brownish Liquid
Odour:	Characteristic odour
Solubility:	Soluble in water
pH:	8.0
Odour threshold:	Not available
Melting point / Freezing point	Not available
Initial boiling point and boiling range	Not available
Flash point:	Not applicable  Not available
Evaporation rate: Flammability (solid, gas)	Not available
Upper/ lower flammability or explosive limits:	Not available
Vapour pressure:	Not available
Vapour density:	Not available
Relative density:	1.04
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature:	Not available
Decomposition Temperature:	Not available
Viscosity:	Not available
10) STABILITY & REACTIVITY:	
Reactivity:	Stable under normal conditions.
Chemical Stability:	When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture.
Possibility of hazardous reactions:	None known.

Incompatible materials:  None known.  When heated to decomposition, irritant or dangerous furnes may be emitted.  When heated to decomposition, irritant or dangerous furnes may be emitted.  LDes (Rat) > 5.000 mg/kg. LDes (Rat	Conditions to avoid:	Avoid extreme temperatures.
Hazardous decomposition product(a):  When heated to decomposition, irritant or dangerous fumes may be emitted.  11) TOXICOLOGICAL INFORMATION:  Acute Toxicity:  Oral:  LDen (Rat): > 5.000 mg/kg. LDen (Rat): > 5		,
may be emitted.  Acute Toxicity: Oral: LDns (Rat): > 5,000 mg/kg. LDns (Rat	Incompatible materials:	None known.
Day   Charles   LDay (Ratt): > 5,000 mg/kg.	Hazardous decomposition product(s):	
Oral:		1
Demail:		LD <sub>50</sub> (Rat): > 5 000 mg/kg
Skin Corrosion/Irritation:  Non-Irritating Respiratory or Skin Sensitization:  Did not cause sensitization on laboratory animals.  Germ Cell Muttagenicity:  May cause genetic defects.  For Container Disposal:  May cause densitization on laboratory animals.  May cause densities and disposal of the sensitization on laboratory animals.  May cause densities and disposal of the sensities and disposal of the sensities and disposal of the sensities.  STOT-SE:  May cause drowsiness and displace.  Aspiration Hazard:  No data available.  Aspiration Hazard:  No data available.  Aspiration Hazard:  No data available.  Acute oral LDs for bothwhite quall >2 000 mg/kg. LCs (5 d) for bothwhite quall and mallard ducks >5000 mg/kg. diet. LCs (6 d) for for sensities and mallard ducks >5000 mg/kg. LCs (6 d) for for sensities and mallard ducks >5000 mg/kg. LCs (6 d) for for sensities and mallard ducks >5000 mg/kg. LCs (6 d) for for sensities and mallard ducks >5000 mg/kg. LCs (6 d) for sensities and mallard ducks >5000 mg/kg. LCs (6 d) for sensities and mallard ducks >5000 mg/kg. LCs (6 d) for sensities and mallard ducks >5000 mg/kg. LCs (6 d) for sensities and mallard ducks >5000 mg/kg. LCs (6 d) for sensities and mallard ducks >5000 mg/kg. LCs (6 d) for sensities and mallard ducks >5000 mg/kg. LCs (6 d) for sensities and mallard ducks >5000 mg/kg. LCs (6 d) for sensities and mallard ducks >5000 mg/kg. LCs (6 d) for sensities and mallard ducks >5000 mg/kg. LCs (6 d) for sensities and mallard ducks >5000 mg/kg. LCs (6 d) for sensities and mallard ducks >5000 mg/kg. LCs (6 d) for sensities and mallard ducks >5000 mg/kg. LCs (6 d) for sensities and mallard ducks >5000 mg/kg. LCs (6 d) for sensities and mallard ducks >5000 mg/kg. LCs (6 d) for sensities and mallard ducks >5000 mg/kg. LCs (6 d) for sensities and mallard ducks >5000 mg/kg. LCs (6 d) for sensities and sens		
Serious Eye Damage/fritation:  Non-irritating Respiratory or Skin Sensitivation:  Did not cause sensitization on laboratory animals.  Germ Cell Mutagenicity:  No data available.  Reproductive Toxicity:  No data available.  Reproductive Toxicity:  May cause dornowiness and dizziness.  STOT-RE:  May cause dornowiness and dizziness.  STOT-RE:  May cause dornowiness and dizziness.  May cause dornowiness and dizziness.  Aspiration Hazard:  12) ECOLOGICAL INFORMATION:  Ecotoxicity:  Brids:  Acute oral LDag for bothwhite quail ≥ 000 mg/kg.  LCag (6 f) for bothwhite quail and maliard ducks >5000 mg/kg diet.  LCag (6 f) for bothwhite quail and maliard ducks >5000 mg/kg diet.  LCag (6 f) for seinnowine tout >22.7, bluegill sunfish >20.7 mg/l.  Ecoloxicity:  Worms:  LCag (8 h) is 19.8 mg/l.  LCag (8 h) is 76 seinnastrum capricomutum > 10.0 mg/l.  Worms:  LCag (4 h) is 76 seinnastrum capricomutum > 10.0 mg/l.  Worms:  LCag (4 h) is 76 seinnastrum capricomutum > 10.0 mg/l.  Worms:  LCag (1 h) is 76 seinnastrum capricomutum > 10.0 mg/l.  Worms:  LCag (1 h) is 76 seinnastrum capricomutum > 10.0 mg/l.  Worms:  LCag (1 h) is 76 seinnastrum capricomutum > 10.0 mg/l.  Worms:  LCag (1 h) is 76 seinnastrum capricomutum > 10.0 mg/l.  Worms:  LCag (1 h) is 76 seinnastrum capricomutum > 10.0 mg/l.  Worms:  LCag (1 h) is 76 seinnastrum capricomutum > 10.0 mg/l.  Worms:  LCag (1 h) is 76 seinnastrum capricomutum > 10.0 mg/l.  Worms:  LCag (1 h) is 76 seinnastrum capricomutum > 10.0 mg/l.  Worms:  LCag (1 h) is 76 seinnastrum capricomutum > 10.0 mg/l.  Worms:  LCag (1 h) is 76 seinnastrum capricomutum > 10.0 mg/l.  Worms:  LCag (1 h) is 76 seinnastrum capricomutum > 10.0 mg/l.  Worms:  LCag (1 h) is 76 seinnastrum capricomutum > 10.0 mg/l.  Worms:  LCag (1 h) is 76 seinnastrum capricomutum > 10.0 mg/l.  Worms:  LCag (1 h) is 76 seinnastrum capricomutum > 10.0 mg/l.  Worms:  LCag (1 h) is 76 seinnastrum capricomutum > 10.0 mg/l.  Worms:  LCag (1 h) is 8 seinnastrum capricomutum > 10.0 mg/l.  Worms:  LCag (1 h) is 8 seinnastrum capricomut		
Respiratory or Skin Sensitization:  Did not cause sensitization on laboratory animals.  Germ Cell Mutagenicity:  No data available.  No data available.  May cause genetic defects.  STOT-SE:  May cause drowsiness and dizziness.  STOT-SE:  May cause drowsiness and dizziness.  STOT-RE:  May cause dramage to organs through prolonged or repeated exposure.  Aspiration Hazard:  No data available.  Aspiration Hazard:  No data available.  Acute oral LD <sub>20</sub> for botwhite quail ×2 000 mg/kg.  LC <sub>20</sub> (5 d) for botwhite quail x 2 000 mg/kg.  LC <sub>20</sub> (5 d) for botwhite quail and mailard ducks >5000 mg/kg.  LC <sub>20</sub> (6 d) for botwhite quail and mailard ducks >5000 mg/kg.  LC <sub>20</sub> (6 d) for botwhite quail and mailard ducks >5000 mg/kg.  LC <sub>20</sub> (6 d) for forwhite quail and mailard ducks >5000 mg/kg.  LC <sub>20</sub> (6 d) for forwhite quail and mailard ducks >5000 mg/kg.  LC <sub>20</sub> (6 d) for forwhite quail and mailard ducks >5000 mg/kg.  LC <sub>20</sub> (6 d) for forwhite quail and mailard ducks >5000 mg/kg.  LC <sub>20</sub> (6 d) for forwhite quail and mailard ducks >5000 mg/kg.  LC <sub>20</sub> (6 d) for forwhite quail and mailard ducks >5000 mg/kg.  LC <sub>20</sub> (6 d) for forwhite quail and mailard ducks >5000 mg/kg.  LC <sub>20</sub> (6 d) for forwhite quail and mailard ducks >5000 mg/kg.  LC <sub>20</sub> (6 d) for forwhite quail and mailard ducks >5000 mg/kg.  LC <sub>20</sub> (1 d) for Eisenia foetida > 100 mg/kg dry soil.  (oral) *198 ug/ber. (contact) *200 ug/bee.  Persistence and Degradability:  Iprovalicarb was thoroughly degraded in soil under aerobic conditions, unimately forming CO <sub>2</sub> ; DT <sub>20</sub> (lab.) 2-30 d; DT <sub>20</sub> (la		
Germ Cell Mutagericity:  Reproductive Toxicity:  No data available.  Reproductive Toxicity:  May cause damage fertility or the unborn child.  STOT-RE:  May cause damage to organs through prolonged or repeated exposure.  Aspiration Hazard:  No data available.  12) ECOLOGICAL INFORMATION:  Ecotoxicity:  Birds:  Acute oral LDag for bobwhite quail >2 000 mg/kg. LCag (6 d) for bobwhite quail and mallard ducks >5000 mg/kg diet.  LCag (8 d) for bobwhite quail and mallard ducks >5000 mg/kg diet.  LCag (8 d) for bobwhite quail and mallard ducks >5000 mg/kg diet.  LCag (8 d) for bobwhite quail and mallard ducks >5000 mg/kg diet.  LCag (8 d) for bobwhite quail and mallard ducks >5000 mg/kg diet.  LCag (8 d) for stown with a continuous properties of the continuous propert		· ·
Carcinogenicity:  No data available.  May cause drowsiness and dizziness.  STOT-RE:  May cause drowsiness and dizziness.  STOT-RE:  No data available.  12) ECOLOGICAL INFORMATION:  Ecotoxicity:  Birds:  Acute oral LD∞ for botwhite quail >2 000 mg/kg.  LC∞ (6 d) for botwhite quail and mallard ducks >5000 mg/kg diet.  LC∞ (6 d) for botwhite quail and mallard ducks >5000 mg/kg diet.  LC∞ (6 d) for rainbow trout >22.7, bluegill sunfish >20.7 mg/l.  Ecotoxicity:  Brain (72 h) for Selenastrum capricomutum >10.0 mg/l.  Worms:  LC∞ (6 h) for rainbow trout >22.7, bluegill sunfish >20.7 mg/l.  Ecotoxic (72 h) for Selenastrum capricomutum >10.0 mg/l.  Worms:  LC∞ (14 d) for Eisenia foetida >1000 mg/kg dry soil.  (varia) >199 μg/bee; (contact) >2000 ug/kg.  Iprovalicant was thoroughly degraded in soil under aerobic conditions, ultimately forming CO₂; DT∞ (8b.) 2-30 d; DT∞ (fled) 1-17 d.  None known.  Mobility in Soil:  None known.  Maan K∞, (5 soils) 106 ml/g; iprovalicarb can be classified as being a substance of intermediate to low mobility.  In accordance with local and national regulations.  Waste Disposal:  In accordance with local and national regulations.  Waste Disposal:  In accordance with local and national regulations.  Waste Disposal:  In accordance with local and national regulations.  Waste Disposal:  In accordance with local and national regulations.  For this product in the waste chainer and proved chemicals waste disposal facility, notifing a permit delivered by the competent authorities. Do not contaminate water, food on site or at an approved chemicals waste disposal facility.  Container Disposal:  UN NUMBER: 3082  UN Proper Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIOUID, N.O.S. ((provalicarb) Transport ADR / IRD:  UN NUMBER: 3082  UN Proper Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIOUID, N.O.S. ((provalicarb) Transport Hazard Class: 9 Miscellaneous Dangerous Goods Packaging group: III  Labelling no: 9  Environmental Hazard Class: 9 Miscellaneous Dangerous Goods Packaging group:		
STOT-SE:  May cause drowsiness and dizziness.  No data available.  Acute oral LD₂₂ for bobwhite quail >2 000 mg/kg.  LC₂₂ (6 d) for bobwhite quail and mallard ducks >5000 mg/kg det.  LC₂₂ (6 d) for bobwhite quail and mallard ducks >5000 mg/kg det.  LC₂₂ (6 h) or rainbow trout >22.7, bluegill sunfish >20.7 mg/l.  Exc₂₂ (72 h) for Solenastrum capricomutum >10.0 mg/l.  Worms:  LC₂₂ (4 d) for Eisenia foetida >1000 mg/kg dry soil.  LC₂₂ (14 d) for Eisenia foetida >1000 mg/kg dry soil.  Lc₂₂ (14 d) for Eisenia foetida >1000 mg/kg dry soil.  Lc₂₂ (14 d) for Eisenia foetida >1000 mg/kg dry soil.  Lc₂₂ (14 d) for Eisenia foetida >1000 mg/kg dry soil.  Lc₂₂ (14 d) for Eisenia foetida >1000 mg/kg dry soil.  Lc₂₂ (14 d) for Eisenia foetida >1000 mg/kg dry soil.	Carcinogenicity:	
Aspiration Hazard: Aspiration Hazard: No data available. 12) ECOLOGICAL INFORMATION: Ecotoxicity: Birds: Acute oral LD∞ for bobwhite quail >2 000 mg/kg. LC∞ (6 d) for bobwhite quail and mallard ducks >5000 mg/kg diet. LC∞ (6 d) for bobwhite quail and mallard ducks >5000 mg/kg diet. LC∞ (6 d) for bobwhite quail and mallard ducks >5000 mg/kg diet. LC∞ (6 d) for bobwhite quail and mallard ducks >5000 mg/kg diet. LC∞ (6 d) for bobwhite quail and mallard ducks >5000 mg/kg diet. LC∞ (6 d) for bobwhite quail and mallard ducks >5000 mg/kg diet. LC∞ (6 d) h) > 19.8 mg/l. LC∞ (14 d) for Eisenia foetida > 1000 mg/kg dry soil. Ecoto (2 f) h) for Selenastrum capricomutum > 10.0 mg/l. Worms: LC∞ (14 d) for Eisenia foetida > 1000 mg/kg dry soil. (oral) >199 µg/bee; (contact) >200 µg/bee. Persistence and Degradability: lprovalicarb was thoroughly degraded in soil under aerobic conditions, utilimately forming CO₂; DT₂ (fab.) 2-30 d; DT₂ (field) 1-17 d. None known. Mobility in Soil: Mean K₀ (5 soils) 106 ml/g; provalicarb can be classified as being a substance of intermediate to low mobility.  13) DISPOSAL CONSIDERATIONS: Waste Disposal: Maste Disposal: Maste Disposal:  Maste Disposal:  Maste Disposal: Refer to the product label for instructions. If the containinate water (foot of feed by disposal ducke insuling from the use of this product may be disposal facility hoding a permit delive del by the competent authorities. Do not transport if this product may be disposal do not site or at an approved chemicals waste disposal facility hoding a permit delive do to refer the product may be disposal do not site or at an approved chemicals waste cannot by recycled, they should be disposed of logic permit delive do not fine with any material or introduce any pesticide other than this product. If containers cannot by recycled, they should be disposed of logic permit delive do not fine with any material or introduce any pesticide other than this product. If containers cannot by recycled, they should be disposed of logic permit delive del		
Aspiration Hazard:    No data available.   No data available.		
Aspiration Hazard:   No data available.	SIOI-RE:	
Acute oral LDs for bobwhite quail >2 000 mg/kg. LCm (6 d) for bobwhite quail >2 000 mg/kg. LCm (6 d) for bobwhite quail and mallard ducks >5000 mg/kg diet.   Acute oral LDs for bobwhite quail and mallard ducks >5000 mg/kg diet.   LCm (6 d) for bobwhite quail and mallard ducks >5000 mg/kg diet.   LCm (6 d) for bobwhite quail and mallard ducks >5000 mg/kg diet.   LCm (6 d) for bobwhite quail and mallard ducks >5000 mg/kg diet.   LCm (7 th) for selenastrum capricomutum > 10.0 mg/k dry soil.   Em (7 th) for selenastrum capricomutum > 10.0 mg/k dry soil.   LCm (14 d) for Eisenia foetida > 1000 mg/kg dry soil.   LCm (14 d) for Eisenia foetida	Aspiration Hazard:	
Birds:   Acute oral LDag for botwhite quali >2 000 mg/kg.   LCag (5 d) for botwhite quali and mallard d ducks >5000 mg/kg diet.   LCag (9 h) for rainbow trout >22.7, bluegill sunfish >20.7 mg/l.   Exc (48 h) > 19.8 mg/l.   E	12) ECOLOGICAL INFORMATION:	
Company   Comp		
diet.   LCm (96 h) for rainbow trout >22.7, bluegill sunfish >20.7 mg/l.	Birds:	
Fish: Daphnia: Algae:    Commonstructure   Commo		
Daphnia:   ECo. (48 h) > 19.8 mg/l.		
Worms: LCss (14 d) for Eisenia foetida > 1 000 mg/kg dry soil.  LCss (14 d) for Eisenia foetida > 1 000 mg/kg dry soil.  LCss (14 d) for Eisenia foetida > 1 000 mg/kg dry soil.  (oral) > 199 µg/bee; (contact) > 200 µg/bee.  Persistence and Degradability:  Iprovalicarb was thoroughly degraded in soil under aerobic conditions, ultimately forming CO <sub>2</sub> ; DT <sub>50</sub> (lab.) 2–30 d; DT <sub>50</sub> (field) 1–17 d.  None known.  Mobility in Soil:  Bio-accumulative Potential:  None known.  Mobility in Soil:  Bio-accumulative Potential:  None known.  Mean Ko <sub>6</sub> (5 soils) 106 ml/g; iprovalicarb can be classified as being a substance of intermediate to low mobility.  13) DISPOSAL CONSIDERATIONS:  Waste Disposal:  In accordance with local and national regulations.  Must be incinerated or disposed of by a chemical waste disposal facility holding a permit delivered by the competent authorities. Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved chemicals waste disposal facility.  Container Disposal:  Container Disposal:  Refer to the product label for instructions.  If the container is to be refilled, do not rinse with any material or introduce any pesticide other than this product. If containers cannot by recycled, they should be disposed of together with the waste chemical. Do No REUSE THE CONTAINER FOR ANY OTHER PURPOSE.  Do not transport if this container is damaged or leaking.  14) TRANSPORTATION INFORMATION:  Road Transport ADR / IRD:  UN NUMBER: 3082  UN Proper Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ((provalicatb) Transport Hazard Class: 9 Miscellaneous Dangerous Goods Packaging group: III  Labelling no: 9  Environmental Hazards: Not applicable Special Precautions for User: Read safety instructions, SDS and emergency procedures before handling.  UN Proper Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ((provalicarb) Transport Hazard Class: 9 Miscellaneous Dangerous Goods Packaging group: III		$EC_{50}$ (48 h) > 19.8 mg/l.
Soil. LCs <sub>0</sub> (14 d) for Eisenia foetida >1000 mg/kg dry soil. (oral) >199 µg/bee; (contact) >200 µg/bee.  Persistence and Degradability:  Iprovalicarb was thoroughly degraded in soil under aerobic conditions, utilimately forming CO₂; DT₅₀ (lab.) 2–30 d; DT₅₀ (field) 1–17 d.  Bio-accumulative Potential:  None known.  Mobility in Soil:  Mean K₀₀ (5 soils) 106 ml/g; iprovalicarb can be classified as being a substance of intermediate to low mobility.  13) DISPOSAL CONSIDERATIONS:  Waste Disposal:  In accordance with local and national regulations.  Must be incinerated or disposed of by a chemical waste disposal facility holding a permit delivered by the competent authorities. Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved chemicals waste disposal facility.  Container Disposal:  Refer to the product label for instructions.  If the container is to be refilled, do not rinse with any material or introduce any pesticide other than this product. If containers cannot by recycled, they should be disposed of together with the waste chemical. DO NO REUSE THE CONTAINER FOR ANY OTHER PURPOSE.  Do not transport if this container is damaged or leaking.  14) TRANSPORTATION INFORMATION:  Road Transport ADR / IRD:  UN NUMBER: 3082  UN Proper Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ((provalicarb) Transport Hazard Class: 9 Miscellaneous Dangerous Goods Packaging group: III Labelling no: 9  Environmental Hazards: Not applicable Special Precautions for User: Read safety instructions, SDS and emergency procedures before handling.  Waritime Transport Hazard Class: 9 Miscellaneous Dangerous Goods Packaging group: III Labelling no: 9	Algae:	
Morms: Bees:		
Persistence and Degradability:    Iprovalicarb was thoroughly degraded in soil under aerobic conditions, ultimately forming CO₂; DT₅₀ (lab.) 2–30 d; DT₅₀ (lield) 1–17 d.    Bio-accumulative Potential:   None known.     Mean K₀₀ (5 soils) 106 ml/g; iprovalicarb can be classified as being a substance of intermediate to low mobility.     13) DISPOSAL CONSIDERATIONS:   In accordance with local and national regulations.     Must be incinerated or disposed of by a chemical waste disposal facility holding a permit delivered by the competent authorities. Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved chemicals waste disposal facility.     Container Disposal:   Refer to the product label for instructions.   If the container is to be refilled, do not rinse with any material or introduce any pesticide other than this product. If containers cannot by recycled, they should be disposed of together with the waste chemical. Do No ReUSE THE CONTAINER FOR ANY OTHER PURPOSE.   Do not transport if this container is damaged or leaking.		
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Packaging group: III Labelling no: 9		
Labelling no: 9		
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	Special Precautions for User: Read safety instructions, SDS and emergency procedures before handling.
Air Transport ICAO / IATA:	UN NUMBER: 3082 UN Proper Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Iprovalicarb) Transport Hazard Class: 9 Miscellaneous Dangerous Goods Packaging group: III Labelling no: 9 Environmental Hazards: Not applicable Special Precautions for User: Read safety instructions, SDS and emergency procedures before handling.
Transport in Bulk (according to Annex II of MARPOL 73/78 and the IBC Code):	
15) REGULATORY INFORMATION:	
Safety, health and environmental regulations/legislation	For the user of this plant-protective product applies: 'To avoid
specific for the substance/mixture:	risks to man and the environment, comply with the instructions for use.' (Directive 1999/45/EC, Article 10, No. 1.2)
Chemical Safety Assessment:	Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

#### **16) OTHER INFORMATION:**

All information and instructions provided in this Safety Data Sheet (SDS) are based on the current state of scientific and technical knowledge at the date indicated on the present SDS and are presented in good faith and believed to be correct. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear.

It is the responsibility of persons in receipt of this SDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with this product. If the recipient subsequently produces formulation(s) containing this product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from this SDS to their own SDS. The information contained herein is provided in good faith but makes no representation as to its comprehensiveness or accuracy. A properly trained person using this product intends this document only as a guide to the appropriate handling of the material. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

MERIDIAN AGRITECH MAKES NO REPRESENTATION OR WARRANTIES, EITHER EXPRESSES OR IMPLIED, INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OF MERCHANT ABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, MERIDIAN AGRITECH (PTY) LTD WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS INFORMATION.

Date of issue: 08/07/2014 Date of revision: 27/05/2019 **Abbreviations and acronyms:** 

- 1. CAS number: Chemical Abstracts Service number.
- 2. CLP: Classification, Labelling, Packaging.
- 3. LD<sub>50</sub>: Lethal Dose for 50% of the test population.
- 4. LC<sub>50</sub>: Lethal Concentration for 50% of the test population.
- 5. DT<sub>50</sub>: Half-life.
- 6. GHS: Globally Harmonised System (of Classification and Labelling of Chemicals).

#### Literature References:

- GHS: www.ccohs.ca/oshanswers/chemicals/ghs.html
- ECHA: https://echa.europa.eu/search-chemicals