

Revised edition no: 3

Date: 10/05/2013

Supersedes: 8/6/2009

WARLOCK 19.2 EC

IDENTIFICATION OF THE SUBSTANCE/ PREPARATION AND THE COMPANY/ UNDERTAKING

Product name : Warlock 19.2 EC

Chemical name of Active ingredient : Emamectin:

: Insecticide Use

Company identification : ADAMA South Africa (Pty) Ltd

> 21 Viben Street Brankenfell 7560

Emergency telephone

Number : + 27 82 807 7102

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components : This product is considered to be hazardous and contains hazardous components

| Substance name concentration%w/w | case no | EC No | Index No | Classification |
|---------------------------------------|-------------|-----------|--------------|-----------------------|
| solvesso 150 <80 w/v | 64742-94-5 | 265-198-5 | 649-424-00-3 | xn, R65 |
| | | | | asp. Tox 1-H304 |
| Emamectin Benzoate 1.92 w/v | 155569-91-8 | | | not classified |
| | | | | Not classified |
| N-methyl-2-pyrolidone 8-15 w/v | 872-50-4 | 212-828-1 | 606-021-00-7 | Repr. Cat; R61 |
| | | | | Xi; R36/37/38 |
| | | | | Repr. 1B –H360U |
| | | | | Eye irrit 2-H319 |
| | | | | Skin irrit. 2- H315 |
| | | | | STOT SE 3-H335 |
| Calcium 5-10 w/v | 26264-06-2 | 247-557-8 | | Xi, R38-41 |
| Dodecylbenzenel- | | | | eye Dam 1-H318 |
| Phonate | | | | skin irrit. 2-H315 |
| 2,6-Ditert-butyl-methylphenol ca 1w/v | 128-37-0 | | | Xn; R22 |
| | | | | Xi, R36/38 |
| | | | | N, R51-53 |
| | | | | Acute Tox. 4-R302 |
| | | | Aqua | atic Chronic 2 – H411 |

3. HAZARDS IDENTIFICATION

: Harmful if swallowed Most important hazards

Environmental hazard : Very toxic to aquatic organisms

4. FIRST - AID MEASURES

First aid measures

Inhalation : Remove victim to fresh air. Keep victim warm and

Rest. If breathing is difficult, give oxygen. Obtain

medical attention

Skin contact : Remove affected clothing and wash all exposed

skin area with soap and water, followed by warm

ADAMA South Africa (PTY) LTD 21 Viben Street Brackenfell 7561 **Cape Town** Tel. No: 021 982 1460



Revised edition no: 3

Date: 10/05/2013

Supersedes: 8/6/2009

WARLOCK 19.2 EC

water rinse. Consult a doctor in the event of any complaints

Eye contact : Wash off with plenty of water. If pain persists,

consult an eye specialist.

Ingestion : Do not induce vomiting. Wash mouth with plenty of

water. Never give anything by mouth to an unconscious person. If breathing is difficult, give

oxygen. Get medical attention

Most important symptoms and effects, both acute and delayed. Indication of any immediate medical attention and special treatment needed.

Note to physician : No specific antidote known. Treat symptomatically

and give supportive therapy

5. FIRE – FIGHTING MEASURES

Extinguishing media : Dry chemical, water spray, foam, carbon dioxide

Hazardous thermal decomposition : Hydrogen Cyanide, nitrogen oxides (NO, NO2),

carbon oxides (CO, CO2).

Protection against fire : Wear proper protective equipment. Self-contained

breathing apparatus

Special procedures : Fight fires from a protected location. Dike fire

control water for later disposal. Use water spray cautiously to keep fire-exposed containers cool.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Wear suitable protective clothing.

Environmental precautions : Dispose of this material and its container at

hazardous or special waste collection point in accordance with national and regional regulations. If the product has contaminated surface water, inform the appropriate authorities. Contaminated soil layers

have to be dug out.

Methods for cleaning up : In the event of minor spillage. Absorb in sand or

other inert material. Use appropriate container to avoid environmental contamination. Ventilate area. Remove all sources of ignition. Collect and contain as much free liquid as possible. Dike spills using absorbent or impervious materials such as sand or

clay for later disposal.



Revised edition no: 3

Date: 10/05/2013

Supersedes: 8/6/2009

WARLOCK 19.2 EC

7. HANDLING AND STORAGE

Precautions for safe handling : Do not breathe fumes. Avoid contact with skin and

eyes

Storage : Keep locked up and keep container tightly closed.

Keep only in the original container in a cool well ventilated place. Keep away from strong oxidizing agents, strong bases. Keep away from sources of

ignition-No smoking. Avoid excessive heat.

8. EXPOSURE CONTROL/ PERSONAL PROTECTION

Engineering measures : Ventilation required. Facilities storing or utilizing this

material should be equipped with an eyewash facility and safety shower. Wash clothing before re-using.

Wash hands thoroughly after handling.

Personal protective equipment

Respiratory system : During spraying, wear suitable respiratory

equipment.

Skin and body : Wear suitable protective clothing. Chemical

resistant boots

Hands : Chemical resistant gloves **Eyes** : Safety goggles or face shield.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State at 20 °C : Liquid

Colour: Slightly yellowOdour: Sweet, faint odourOdour threshold: Not available

oH : 5-8

Melting point/freezing point : Not available Initial boiling point-boiling range : Not available

Flash point : >61

Evaporation : Not available
Flammability : Not flammable
Explosion limits (lower-upper) : Not available
Vapour pressure : Not available
Vapour density : Not available
Relative density : 0.92-0.96 g/cc
Solubility : Not available

Auto-ignition temperature : 290

Decomposition temperature : Not available Viscosity : Not available Explosive properties : Not available Oxidising properties : Not available : Not available

ADAMA South Africa (PTY) LTD 21 Viben Street Brackenfell 7561 Cape Town Tel. No: 021 982 1460



Revised edition no: 3

Date: 10/05/2013

Supersedes: 8/6/2009

WARLOCK 19.2 EC

10. STABILITY AND REACTIVITY

Stability : Stable under normal conditions **Co**nditions to avoid : protect from sunlight and heat.

Hazardous decomposition: Thermal decomposition generates: carbon monoxide, carbon dioxide, NOx SOx

11. TOXICOLOGICAL INFORMATION

Toxicity information

 Rat oral LD50 [mg/kg]
 : >2000

 Rat dermal LD50 [mg/kg]
 : > 2000

 Rat inhalation LC50 [mg/kg]
 : > 5.50

Dermal irritation (rabbit): moderately irritatingEyes Irritation (rabbits): moderately irritatingSensitization: Non sensitizer.Germ cell mutagenicity: Not mutagenicCarcinogenicity: Not carcinogenic

Reproductive toxicity : May cause harm to the unborn child

12. ECOLOGICAL INFORMATION

96 H-LC50 – Rainbow trout [mg/l] : 0.174 **48 H-NOEC- Daphnia magna [mg]** : 0.0099

Bees LD50 [ug] : 0.0036 – very toxic to bees

Birds LC50 [mg/kg] : 570(mallard duck)
Long-term exposure : Not available

Persistence – degradability : Rapidly degradable: soil, sunlight.

Bioaccumulative : Moderately

13. DISPOSAL CONSIDERATIONS

Disposal : Avoid release to the environment. Dispose in a

safe in accordance with local/national regulations.

14. TRANSPORT INFORMATION

UN No. : 3082

- **Proper shipping name** : Environmentally Hazardous substance, Liquid.

- Packing group : III
- Class : 9
- H.I. nr: : 90
- IMDG-Marine pollution : YES

15. REGULATORY INFORMATION

EU Classification : This product is provisionally labelled by the supplier in accordance with the

supplier understanding of the EU

regulations

ADAMA South Africa (PTY) LTD 21 Viben Street Brackenfell 7561 Cape Town Tel. No: 021 982 1460



Revised edition no: 3

Date: 10/05/2013

Supersedes: 8/6/2009

WARLOCK 19.2 EC

Risk phrases : R22 Harmful if swallowed

: *R36/37/38* – irritating to eyes, respiratory system

and skin.

: R41- Risk of serious damage to eyes

: R51/53 – Toxic to aquatic organisms, may cause

long-term adverse effects in the aquatic

environment.

: R61 – May cause harm to the unborn child.

: R65 - Harmful: may cause lung damage if

swallowed.

Safety Phrases : H302: Harmful if swallowed

: H304-May be fatal if swallowed and enters airways

: H315 - causes skin irritation

: H318 – Causes serious eye damage : H319 – causes serious eye irritation : H335 – May cause respiratory irritation : H360 – May damage the unborn child

: H411 - Toxic to aquatic life with long lasting effects

Print date : 11 July 2015

16. OTHER INFORMATION

DISCLAIMER OF LIABILITY: The information in this MSDS was obtained from sources which are believed to be reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and maybe beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.