



# MATERIAL SAFETY DATA SHEET

Revised edition no: 3

Date: 10/05/2013

Supersedes: 8/6/2009

## PARSEC 200 EC

### 1. IDENTIFICATION OF THE SUBSTANCE/ PREPARATION AND THE COMPANY/ UNDERTAKING

**Product name** : Parsec 200 EC

**Use** : Acaricide, Insecticide (amidine)

**Company identification** : ADAMA South Africa (Pty) Ltd  
21 Viben Street  
Brackenfell  
7560

**Emergency telephone Number** : + 27 82 807 7102  
: + 27 21 982 1460

### 2. COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical nature: This product is formulated.

Components	Case Number	Concentration%	Molecular Formula
n-methylbis (2,4-xylyliminomethyl) amine	33089-61-1	500 g/l	C19H23N3
Dimethylbenzene	1330-20-7	Approx.. 34% m/v	C6H14(CH3)2

- Synonyms: Amitraz, amitraze, Xylene, Xyrol
- Ingredients or impurities contributing to hazard: the product has aromatic solvent as solvent in the formulation. The other compounds of the formulation are not classified as hazardous.

### 3. HAZARDS IDENTIFICATION

**Main hazards:** The product may be toxic to men and to the environment if not used as recommended. Products Effects: adverse health effects to human: Amitraz is a central nervous system depressor and when there is systemic absorption, it causes capillary vasodilation.

Environmental Effects: The product is toxic to aquatic organisms, earthworms and may cause their death.

Physicochemical hazards: flammable product 1B

Specific hazards: there are no other hazards related to the product.

Main Symptoms: The product may cause hypotension, brachycardia, hypothermia, ataxia depression and in more serious case, coma. Due to the presence of aromatic solvent, it may occur nausea, vomiting, diarrhea, chronic headache, dizziness, sedation and incoordination.

### 4. FIRST – AID MEASURES

- First Aid Measures: remove to fresh air. Remove all contaminated clothing and wash the affected parts of the body thoroughly with plenty of water for 30 minutes. If the victim is unconscious and not breathing, apply artificial respiration or oxygenation. Take victim to the nearest medical care center, with this sheet.

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- Inhalation: remove to fresh air. If stops breathing, apply artificial respiration. If breathing is difficult, immediately call a physician.
- Skin contact: immediately wash with water for 30 minutes after removing contaminated clothing. In case of effects/symptoms, call a physician. Wash the contaminated clothing prior to reuse them and dispose contaminated shoes.
- Eye contact: immediately rinse with plenty of running water for at least 30 minutes. Call a physician.
- Ingestion: do not induce vomiting, but do not stop if it happens spontaneously. Call a physician immediately. WARNING: Never give anything by mouth respiration if the patient has swollen the product. Give artificial respiration.
- Action to be avoided: do not mouth to mouth respiration if the patient has swollen the product. Give artificial respiration.
- Protection for the first aid givers: avoid skin or inhalation contact with the product during the process.
- Notes for the physician: no specific antidote is available. If large amounts was swallowed, gastric emptying procedures as gastric lavage may be performed, taking great care to avoid pulmonary aspiration due to the risk of chemical pneumonitis. Activated charcoal and saline laxatives may be administered due to probable active ingredients adsorption to activated charcoal. Symptomatic treatment must include, specially, support measures as the correction of hydroelectrolytic and metabolic disorders, as well as respiratory aid. The management of hepatic and renal functions must be kept. If in eye, rinse them with physiological saline followed by occlusion and lead to ophthalmic evaluation. There is a paper reporting the results of yohimbine in the reversion of Amitraz effects within cardiac, gastrointestinal and CNS ambit.

#### 5. FIRE – FIGHTING MEASURES

Extinguishing media: foam, CO<sub>2</sub>, dry chemical and in last case, water

Special procedures: wear appropriate PPE to avoid direct contact with the product. PVC overall, rubber gloves and rubber boots are recommended. Wear self-contained breathing apparatus.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions: wear waterproof overalls, safety goggles, rubber boots and nitril rubber latex or PVC gloves. Respiratory protection must be used depending on the concentrations in the environment or on the extension of the spill/release. In this case, choose self-contained breathing apparatus.

Removal of ignition sources: stop electric energy and turn off the sources that may produce sparks. Remove all the material that may start a fire (for example; spilled diesel oil).

Dust control: not applicable as it is a liquid.

Inhalation, skin, mucous membrane and eyes contact prevention: wear the garments and accessories described above.

Environmental precautions: avoid contamination of surface waters sealing the entrance of the rain water galleries (culverts). Do not allow the residues of released product reach water collections, building dikes with earth, sand or any other absorbing material.

Cleaning methods: stop and collect the spill with non-combustible absorbing material (e.g. sand, earth, vermiculite, diatoms earth). Put the residues into a recipient for disposal according to the local regulations. Clean, preferably with a detergent, avoid using solvents.

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Secondary hazards prevention: do not allow the product to contaminate creeks, lakes, water fountains, wells, sewers, pluvial sewers and effluents.

## 7. HANDLING AND STORAGE

### Handling

**Technical measures:** Wear PPE as described on item 8. Keep people and specially children and domestic animals away from the place of work. Do not have direct contact with the product. Avoid leaks or contamination of the application equipment, during its supply.

Workers exposure prevention: wear PPE as described on item 8. Do not eat, drink or smoke during product handling. When opening a packaging, do it in a way to avoid leaks. Do not use damaged and/or defective personal protective and application equipment. Do not unstop nozzles, holes, tubulations or valves of application equipment with the mouth. Do not manipulate and/or carry damaged packaging.

Guidance to a safe handling: wear PPE as described on item 8. Handle the product with appropriate local exhaustion or in a well ventilated area. If handled in open environments, do it in the same direction as of wind. Apply only the manufacture's recommended dose. In case of intoxication symptoms, immediately stop the work and proceed as described on item 4 of this sheet.

### Storage

Appropriate technical measures: keep the product in its original recipient. Keep eventual residues of the product in its original packaging, appropriately closed.

Storage conditions: Keep the recipient appropriately closed, at room temperature and protected from light. Keep it in a duly identified, exclusive place for toxic products. Lock the place to avoid access of unauthorized persons and children. Avoid humid places and places with sources of heat. Do not store with food, beverages, including those intended for animal use.

## 8. EXPOSURE CONTROL/ PERSONAL PROTECTION

Engineering controls: whenever applicable use ventilators, air circulators, exhausters appropriate for flammable gases and vapors, provide the work area with appropriate ventilation. The operator must always use breathing protection equipment, even when there is a good and natural or mechanical ventilation.

Occupational exposure limits:

Common name	Exp. Limit	Type	Effect	References
Amitraz	None established	TLV/TWA	----	NR 15,1994 and ACGIH, 2002
Dimethylbenzene (Xylene)	78ppm(340mg/m <sup>2</sup> )	LT	----	NR15, 1994
	100ppm	TLV-TWA	Irritation	ACGIH 2002
	150ppm	TLV-STEL		

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Biological indicators:

Common name	Biological Limit	Type	Notes	References
Amitraz	None established	BEI	----	NR 7, 1994
Xylene methyl Hippuric Acid (Urine)	1.5 g/g creatinine	BEI	End of Job	And ACCIH 2002

Personal protective equipment:

Breathing protection: wear rubber or silicone masks with chemical filter for pesticides combined with mechanical filter for class P2 particles.

Hands protection: Wear nitril rubber PVC, latex or other waterproof and tear/ perforation resistant material gloves.

Eye protection: Wear safety goggles for chemical products.

Skin and body protection: wear long sleeve waterproof or hydro-repellent overall and PVC boots.

Special Precautions: Keep PPE duly clean and in adequate use conditions, performing inspections and possible maintenance and/or substitution of damage/defective equipment and parts from time to time.

Hygiene Measures: take shower and change the clothing after the product. Wash contaminated clothing separately, avoiding its contact with another personal use tools.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State at 20 °C</b>	: Liquid
<b>Colour</b>	: Yellowish to amber
<b>Odour</b>	: Characteristics
<b>pH</b>	: 6.5 – 7.5 at 20°C
Boiling point	: Not applicable
Melting point	: Not applicable as it is liquid
Flash point	: 23 at 27°C
Upper/Lower explosion Limits	: Not Explosive
Density	: 0.940 to 0.950 g/ml at 20°C
Solubility	: Emulsifiable in water
Viscosity	: 10 cps at 25°C

## 10. STABILITY AND REACTIVITY

**Chemical stability:** the product is stable under normal temperature and storage conditions

Hazardous reactions: There is no hazardous reaction known

Hazardous decomposition products: Fire produces carbon monoxide, carbon dioxide, nitrous oxide and other non-identifiable organic substances.

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#### 11. TOXICOLOGICAL INFORMATION

##### Toxicity information

Rat oral LD50 [mg/kg] : 1.900 mg/kg  
Rat dermal LD50 [mg/kg] : > 12000 mg/kg  
Rat inhalation LC50 [mg/kg] : > 5.59 mg/  
Dermal irritation (rabbit) : Mild irritating  
Eyes Irritation (rabbits) : Not irritating  
Sensitization : Non sensitizer.

Germ cell mutagenicity : Not mutagenic  
Carcinogenicity : Not carcinogenic  
Reproductive toxicity : not considered to be toxic

#### 12. ECOLOGICAL INFORMATION

Environmental, behavioural effects and impact of the product:

Mobility: Amitraz is moderately movable in sandy-clay, medium texture and in clay and it is very movable in sandy soil.

Persistence/Degradability: Amitraz is rapidly degraded (half-life in soil: 20 minutes to 1 day. Degradation occurs through hydrolysis, photo degradation and microbial degradation)

Bioaccumulation: there is no indication that Amitraz accumulates in mammals.

Ecotoxicological information:

Toxicity to fishes: ((*brachydanio rerio*) Lc50 (96hs) = 0.014 mg/L

Toxicity to birds: Mallard ducks: LC50 (8 days) : 7,000 mg/kg

Toxicity to earthworms: (*Eisenia foetida*) LC50 (14 days) = 7.46 mg/kg

Toxicity to algae: (*chlorella vulgaris*) EC50 (96hs) = 62.16 mg/l

Toxicity to microcrustaceous: (*daphnia similis*) EC50 (48hs) = 0.32ppm

#### 13. DISPOSAL CONSIDERATIONS

##### Treatment and disposal methods:

Product: inactive the product through incineration in ovens designed to this kind of operation, equipped with chambers to wash gases that are according to the competent authority regulations.

Product residues: keep eventual residues of the products and/or products with expiration date expired in their original packaging, duly closed.

Used packaging: empty packaging must be submitted to triple washing and then stored in the safe place to be returned to the shop where they were acquired within one year. Do not burn, nor bury the

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packaging. The specific State and Municipal legislation must be obeyed. The State or Municipal environmental agency must be consulted.

#### 14. TRANSPORT INFORMATION

- **UN No.** : 1993
- **Proper shipping name** : Flammable liquid
- **Packing group** : III
- **Class** : 3
- **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
- Risk phrases** : R50/53 – Very toxic to aquatic organisms, may cause adverse effects in the aquatic environment
- Safety Phrases** : S02 – Keep out of reach of children  
S13 – Keep away from food, drink and animal Feeding stuffs  
: S29/35 – Do not apply into drains, dispose of this material and its container in a safe way.  
: S57 – Use appropriate container to avoid environment contamination.

**Print date** : 11 July 2013

#### 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.

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