



MATERIAL SAFETY DATA SHEET

HUNTER[®] 200EC

ASTRA INDUSTRIAL COMPLEX CO., LTD. (ASTRACHEM)
P.O. Box 30447, AL-KHOBAR 31952
KINGDOM OF SAUDI ARABIA

1. PRODUCT IDENTIFICATION

Product Name: Hunter[®] 200EC
Active Ingredient: Amitraz (20% w/v)
Chemical Class: Amidine

Producer: Astra Industrial Complex Co., Ltd. (ASTRACHEM)
P.O. Box 30447, Al-Khobar 31952
Saudi Arabia
Emergency Tel.# (+966) 3 8121 406

USE: HUNTER[®] 200EC is an emulsifiable concentrate formulation containing 200 g / Liter of the active ingredient Amitraz. It used as an acaricide / insecticide with contact activity for control of all stages of *Tetranychid* and *Eriophyid* mites, pear suckers, scale insects, Mealybugs, whitefly, aphids and eggs and first instar larvae of *Lepidoptera* on pome fruits, stone fruits, citrus, cotton, strawberries, hops, cucurbits, capsicums, tomatoes, ornamentals and some other crops. Also used as an animal ectoparasiticide to control ticks, mites and lice on cattle, dogs, goats, pigs and sheep.

The EPA classifies **Amitraz** as Class III - **slightly toxic**. However, **Hunter[®] 200EC** bears the SIGNAL WORD: **CAUTION**.

2. COMPOSITION / INFORMATION ON INGREDIENTS

Substance	Proportions (% w/w)	Structural Formula
Amitraz 99% Tech. CAS No. 33089-61-1 Chemical Name: <i>N</i> -methylbis (2,4-xylyliminomethyl) amine (IUPAC)	22.10 (200 ± 20 g/L)	 <chem>Cc1ccc(cc1C)N=CN(C)C=Nc2cc(C)cc(C)c2</chem>
Blend of anionic and nonionic emulsifiers	12.10	
Organic solvents	65.80	



3. HAZARD IDENTIFICATION

Acute Effects

Ingestion:

The concentrate is harmful or fatal if swallowed.

Eye:

Corrosive. Causes irreversible eye damage.

Skin:

Causes moderate skin irritation. Harmful if absorbed through the skin

Inhalation:

Inhalation of excessive amount of spray may cause nausea, vomiting, and dizziness.

Chronic effects:

No evidence of carcinogenic, mutagenic, teratogenic or reproductive effects. Gross skin absorption and ingestion may cause central nervous system depression.

Other Health Hazard Information

May aggravate pre-existing medical conditions of the skin, eyes, and upper respiratory system.

4. FIRST AID MEASURES

First Aid:

Ingestion:

If poisoning occurs, contact a doctor. Do not give fluids or induce vomiting if person is unconscious or having convulsions. Get affected person to a doctor or hospital promptly.

Eye:

Irrigate for 15 minutes with copious quantities of water with eyelids held open. Seek medical advice.

Skin:

Remove contaminated clothing at once, wash skin thoroughly with soap and water. Obtain medical attention immediately.

Inhalation:

Remove to fresh air. Get to a doctor or hospital promptly.

Advice to doctor:

If swallowed, use gastric lavage. Avoid aspiration.



5. FIRE FIGHTING MEASURES

Flash point: 33° C

In case of fire the concentrate will burn producing toxic oxides of nitrogen. Thermal decomposition may also generate carbon dioxide, carbon monoxide, aldehydes and oxides of sulphur.

Extinguishing Media:

Water fog, dry chemicals, foam or Carbon dioxides. Alcohol resistant foams are preferred if available.

Special fire fighting procedures:

Fire fighters should use self contained breathing apparatus. Prevent runoff of fire water. Avoid exposure to smoke. If closed drums are exposed to fire, cool with water spray to avoid pressure build up.

6. ACCIDENTAL RELEASE MEASURES

Contain spill and absorb with sand, soda ash, lime, clay, saw dust or proprietary absorbent (vermiculite). Prevent from entering drains, waterway or sewers. Collect in sealed open top containers for disposal.

Disposal:

Triple rinse containers, add rinsate to the spray tank, then offer container for recycling/reconditioning, or puncture top, sides and bottom and dispose of in landfill in accordance with local regulations. On-site disposal of concentrate is not acceptable.

7. HANDLING AND STORAGE

Store in original container. Avoid breathing vapour or spray mist. Keep out of reach of children, do not store with food, feed or other material to be used or consumed by humans or animals. Do not contaminate water supplies, lakes, streams, or ponds. Store in a secure, dry, well-ventilated area, segregated from oxidizers and incompatible materials.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls:

Natural ventilation only required when handling the concentrate. A local exhaust should be used in confined areas to keep the level of solvent within acceptable limits.



Personnel Protection:

The concentrate is harmful; skin absorption is the most common route of exposure. May be irritated the eyes and skin. Repeated minor exposure may have cumulative effects. Avoid contact with the skin and eyes and avoid breathing the vapor. Do not inhale the spray mist. When opening the container of concentrate and preparing the spray, wear cotton overalls

Buttoned to the neck and wrist, washable hat and elbow-length PVC gloves. When using in an enclosed area wear face shield. If product spilled on skin wash effected area thoroughly with soap and water. After use and before eating drinking or smoking, wash hands, arms, face thoroughly with soap and water. After each day's use, wash gloves, face shield and contaminated clothing. Do not eat or smoke while spraying.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, Yellow liquid free of visible impurities.
Odour	Aromatic
Assay	200 ± 20 (g/L) "Amitraz"
Density	0.931 ± 0.006 Kg/L
Acidity (g/Kg) as H ₂ SO ₄	<1.0
Water Contents (g/Kg)	<2.0
Flammability	Flammable
Flash point	33° C
Explosivity	Not Explosive
Corrosivity	Corrosive to Iron

Other Properties:

Concentrate forms an emulsion with water.

10. STABILITY AND REACTIVITY

Stability:	Stable under room temperature.
Polymerization	Will not occur
Condition to avoid	none currently known
Incompatibility	Avoid contact with strong oxidizing and reducing agents.

Emulsion Stability:

Initial Emulsification:	Complete
Emulsion Stability (2h):	Stable
Re-emulsification (24h):	Complete
Emulsion Stability (24.5):	0.5 ml oil
Heat Stability (2 weeks at 54°C):	Passed
Cold Stability	Passed



11. TOXICOLOGICAL INFORMATION

Acute oral LD₅₀ for rat: > 3,000

Technical (Amitraz):

Acute oral LD₅₀ for rat (male): 650 mg/Kg
Acute dermal LD₅₀ for rat: > 1,600 mg/Kg

12. ECOLOGICAL INFORMATION

- **Toxic to fish.**
- Do not contaminate dams, rivers or streams with pesticide or used container.
- Do not use container for any other purpose.
- Triple rinse containers with water and add rinsate to the spray solution.
- Puncture top, bottom and sides of empty container, then crush and bury in an approved landfill, or bury under at least 500 mm of soil in a non-crop, non-pasture area away from water sources or homes.

13. DISPOSAL CONSIDERATION

Pesticide wastes are toxic. Do not reuse product containers. Dispose of product containers, waste containers and residues according to local health and environmental regulations.

14. TRANSPORT INFORMATION

Proper Shipping Name: PESTICIDE, LIQUID, TOXIC, FLAMMABLE (Amitraz)
UN number: 2903
Class: 6.1
Packing Group: III
Marine Pollutant: Yes

15. REGULATORY INFORMATION.

SARA, Title III
Acute Health Hazard: Yes
Constant Health Hazard: No
Fire Hazard: Yes

16. OTHER INFORMATION

Buyer assumes all responsibility for safety and use not in accordance with the product label instructions.