



MATERIAL SAFETY DATA SHEET

FOLIOROIL[®] 930EC

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

1. PRODUCT IDENTIFICATION

Product Name : **FOLIOR-OIL[®] 930EC**
Chemical Class :

Use: **FoliarOil 930 EC** is used as an insecticide and acaricide with ovicidal activity, for the control of red spider mite, scales insect, mealy bugs, aphids, white flies as well as the eggs of many species. It is used in a wide range of crops including, in protected tomatoes, cucumbers, grapevines, protected pot plants, stone fruits and ornamentals.

FoliarOil 930 EC also used as an adjuvant to enhance the effectiveness of pesticides

Producer: **Astra Industrial Complex Co., Ltd.**
P.O. Box 30447, Al-Khobar 31952
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2. CHEMICAL IDENTIFICATION

Substance	Proportions (% w/w)
Highly Refined Paraffin Oil CAS No. 64742-55-8	93.10
Isobutylalcohol	1.10
Blend of anionic and nonionic Emulsifiers	5.80



3. HAZARD IDENTIFICATION

Health Hazards:

None under normal conditions of use the white mineral oil may be considered as non-toxic.

Environmental Hazards:

Do not dispose off by means of sinks, drains or into the immediate environment.

4. FIRST AID MEASURES

Inhalation:

Inhalation of aerosols may cause irritation of the throat remove the affected person to fresh air.

Skin contact:

No adverse effect is expected. Wash skin with soap and water.

Eye contact:

No adverse effects are expected. Flush immediately with plenty of water, holding the eyelids open, for at least 15 minutes.

Ingestion:

Possible risk of vomiting and diarrhea, give nothing to drink and do not induce vomiting (risk of pulmonary irritation). Foliar – oil 930 EC may be considered as non-toxic.

5. FIRE FIGHTING MEASURES

Extinguishing media:

Carbon dioxide, dry chemicals foam.

Do not use water jets (stick jets) in the early stages of extinguishing fire since they could help to spread the flames.

Combustion products:

Combustion forms gas: carbon mono- and dioxide and cracking products. Their inhalation is likely to be harmful.

Protective equipment for firefighters:

Wear suitable breathing equipment.



6. ACCIDENTAL RELEASE MEASURES

Environmental precautions:

Stop the spill at source if possible, without endangering the operator. Avoid discharge of the material in a stream or a sewer or cause ground contamination. Take up small spills with dry chemical absorbent.

After spillage/leakage:

Remove sources of ignition.

On soil:

Containment recovery by physical means. Dispose safely in accordance with local or national regulations.

On water:

Use floating absorbent material to remove mechanically. If the material has been discharged into a stream or a sewer, inform the authorities of the possible presence of floating materials.

7. HANDLING AND STORAGE

Not classified as a dangerous good for transport and storage. Store in the closed, original labeled container in a cool, dry well ventilated area out of direct sunlight. Keep in a safe place away from foodstuffs, seeds or fertilizers. Keep out of the reach of children.

Wash thoroughly after handling the material and before eating or drinking.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure controls:

Occupational exposure limit:

For oil mist, mineral a level of 5 mg/m³ in atmosphere is recommended.

Personnel protection:

Where exposure is likely, protective clothing must be worn including gloves.

Hands protection:

None

Skin protection:

Coverall (with legs worn over shoes: boots)



Eye protection:

Goggles/spectacles

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Light yellow, oily liquid free of visible impurities.
Odour:	Almost odourless.
Density:	0.8651 Kg/L
Viscosity:	63 Cp at 22.5 C (Brookfield, spindle 2 @ 100 r.p.m)
Miscibility:	Forms emulsion when mixed with water
Corrosiveness:	Non-corrosive
Water contents:	0.05% w/w

10. STABILITY AND REACTIVITY

Reactivity:

Avoid contact of the concentrate with strong alkalis and strong oxidizing agents.

11. TOXICOLOGICAL INFORMATION

Symptoms related to use:

Inhalation:

Vapour or aerosols may cause irritation of the upper respiratory tract.

Rat inhalation LC₅₀ > 4,000 ml/m³

Skin contact:

No adverse effect is expected.

Rabbit dermal LD₅₀ > 5,000 mg/Kg

Eye contact:

No corneal, iridial, conjunctival effects.

Ingestion:

In case of ingestion of small quantities, no important effect observed, in case of ingestion of larger amounts: abdominal pain, diarrhea.

Sensitization:

No adverse effect is expected.

Sub-acute & chronic toxicity:

None to 5,000 mg/Kg

Carcinogenicity:



IARC (International Agency on Research on Cancer): category 3 the agent is not classifiable as to its carcinogenicity to humans. This product is made of highly refined mineral oils and other additives not regarded as carcinogenic.

Reproductive toxicity:

None to 2,000 mg/Kg

12. ECOLOGICAL INFORMATION

Information on ecological effects:

Avoid losses to the environment whenever possible.

Mobility:

Air:

There is a slow loss by evaporation. Hydrocarbons with a carbon number > 20 are essentially non-volatile.

Soil:

Because of its physico-chemical properties, the product generally has low soil mobility.

Water:

The product spreads out on the surface of the water, a small fraction of the constituents may be dissolved, discharge of large amounts in water may be dangerous for aquatic life.

Persistence and degradability:

Not readily biodegradable.

Bio-accumulative potential:

No information available

Ecotoxicity:

Toxic to fish.

13. DISPOSAL CONSIDERATION

Wastes resulting from the use of this product that cannot be used or chemically reprocessed should be disposed of in a landfill approved for industrial disposal or in accordance with applicable local procedures.



Emptied container retains vapour and product residue. Observe all labeled safeguards until container is cleaned, reconditioned or destroyed. Do not reuse container. Triple rinse container, then puncture and dispose of in a sanitary landfill or by incineration, or if allowed by local authorities, by burning. If burned, stay out of smoke.

14. TRANSPORT INFORMATION

Product not classified as a dangerous good for transport by road, rail, sea or air. It is a good practice to separate this product from food and animal feedstuffs, seeds or fertilizers during transport.

15. REGULATORY INFORMATION

Toxicity class: Non toxic: WHO (a.i.) III

16. OTHER INFORMATION

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