



MATERIAL SAFETY DATA SHEET

BON OIL[®] 965EC

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

1. CHEMICAL IDENTIFICATION

Product Name: **BON OIL**[®] 965EC

Chemical Class: Mineral Oil

Uses: **Bon Oil**[®] 965EC *Acaricide, insecticide, herbicide, adjuvant* Controls overwintering forms (particularly winter eggs) and summer eggs of spider mites, aphids, and scale insects and other insects on fruit trees (pome fruit, stone fruit, citrus fruit), vines, olives, bananas and some ornamentals and glasshouse crops; Control of grass and broad-leaved weeds in umbelliferous crops (including carrots, celery, caraway, chervil, coriander and parsley), and in tree nurseries. Also used as a surfactant and as an adjuvant to enhance the activity of other pesticides.

Producer: **Astra Industrial Complex Co., Ltd.**
P.O. Box 30447, Al-Khobar 31952
Kingdom of Saudi Arabia
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2. COMPOSITION / INFORMATION ON INGREDIENTS

Substance	Quantity	
	g/L	% w/w
Mineral Oil Technical CAS No. 64742-55-8	830.00	96.46
Blend of anionic and nonionic emulsifiers	21.50	2.50
Aromatic Solvent	9.00	1.04



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 effect is 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).

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 safety 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	Clear Yellow liquid free of visible impurities
Density	0.862 – 0.874 Kg/L
Flash Point	> 40°C
Water contents	<2.0 g/Kg
Acidity as H ₂ SO ₄	<5.0 g/Kg
Solubility in Water:	Forms emulsion



10. STABILITY AND REACTIVITY

Reactivity:

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

11. TOXICOLOGICAL INFORMATION

Oral LD₅₀ (Rat): >10,000 mg/kg. (Rabbit) Dermal >5000 mg/kg.

Active substance:

Dermal LD₅₀ for rabbits >5000 mg/kg .

Not a skin sensitiser (Buehler guinea pig test).

Other No toxicological problem due to petroleum oils has been reported in practice.

EC hazard Petroleum extracts are classified as R45

Symptoms related to use:

Inhalation:

Vapor 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, diarrhoea,...

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 physiochemical 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, and discharge of large amounts in water may be dangerous for aquatic life.

Persistence and degradability: Not readily biodegradable.

Bio accumulative potential: No information available

Eco toxicity: 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 vapor 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

SIGNAL WORD: CAUTION

TOXICITY CLASS: III; IV

PROTECTIVE CLOTHING: Long-sleeved shirt and long pants, shoes plus socks; chemical-resistant gloves.

HANDLING AND STORAGE CAUTIONS: Store in cool, dry, secure area out of reach of children and animals. Keep container tightly closed to prevent entry of water



or other contaminants. Avoid prolonged or repeated contact with skin since this can remove the natural oils and fats, causing irritation. Wash thoroughly after handling. Excessive inhalation exposure may cause irritation of the nose, throat, or eyes. Contact with eyes may cause irritation.

SPILL CONTROL/CLEANUP: Absorb on inert material. Shovel, sweep, or vacuum spill.

PRODUCT/WASTE DISPOSAL: Follow Federal, State and Local regulations. Not a RCRA hazardous waste if uncontaminated. Do not flush to drain/storm sewer. Contract to authorized disposal service. Product forms emulsion in water.

16. OTHER INFORMATION

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