

MATERIAL SAFETY DATA SHEET

OSCAR (Bupirimate)

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

Product name : OSCAR (Bupirimate)
Chemical formula : Bupirimate: $C_{13}H_{24}N_4O_3S$
Hexaconazole: $C_{14}H_{17}Cl_2N_3O$
Code no. : R-10827.G (730207)
Manufacturer : Makhteshim Chemical Works, Ltd.
P.O.B. 60, Beer Sheva 84100, Israel.
Fax no.: 972-8-6296848-(364)
Emergency telephone number : 972-3-6106666
Subscription no.: 36789 (MAKHTESHIM)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation : Preparation.

Information on hazardous ingredients *

Common name	CAS No.	%	EC Number	Symbol	R-Phrases
Bupirimate	41483-43-6	250 g/l	255-391-2	Xi, N	R43-51/53
Hexaconazole	79983-71-4	30 g/l	-	Xi, N	R43-51/53
Kerosene	64742-47-8	100 g/l	265-149-8	Xn	R65
n-Butanol	71-36-3	300 g/l	200-751-6	Xn	R10-22-37/38-41-67
Solvesso 150	64742-94-5	150 g/l	265-198-5	Xn	R65
Alkylphenol ethoxylates	68412--54-4	30 g/l	-	Xi	R36-53

* *Occupational Exposure Limit(s), if available, are listed in section 8*

3. HAZARDS IDENTIFICATION

Physical/chemical hazards : Flammable.
Human health hazards : Irritating to eyes and skin.
May cause sensitization by skin contact.
May cause damage if aspirated into the lungs.
Environmental hazards : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST-AID MEASURES

Effects and symptoms

First-aid measures

Inhalation : Remove victim to fresh air. Keep victim warm and at rest.
Immediately consult a doctor.
Ingestion : Wash out mouth with water. Do not induce vomiting. Immediately consult a doctor.
Skin contact : Remove contaminated clothing. Wash off with plenty of water and soap.
Consult a doctor in the event of any complaints.
Eye contact : Immediately wash out with plenty of water with the eyelid held wide open, for at least 15 minutes. Immediately consult an eye specialist.

MATERIAL SAFETY DATA SHEET

OSCAR (Bupirimate)

Notes to a physician : Treat symptomatically and give supportive therapy.
 If gastric lavage is performed: endotracheal control and/or esophagoscopy is recommended; administration of activated charcoal is recommended.

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable : Flammable.
 In case of a small fire: foam, dry chemical, carbon dioxide.
 In case of a large fire: Water spray, fog or regular foam.

Special fire-fighting procedures : Fight fires from a protected location. Dike fire control water for later disposal. Avoid use of water jets.

Hazardous thermal (de)composition products : Emits toxic and irritating fumes.

Protection of fire-fighters : Wear suitable protective clothing. Self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Wear suitable protective clothing, gloves and eye/face protection.
 During cleaning activity, shut off ignition sources.

Environmental precautions : Dispose of this material and its container at hazardous or special waste collection point, If the product has contaminated surface water, inform the appropriate authorities.

Methods for cleaning up : Absorb in sand or other inert material. Use appropriate containment to avoid environmental contamination.
 In the event of major spillage: Collect and contain as much free liquid as possible. Dike spills using absorbent or impervious materials such as sand or clay for later disposal.

7. HANDLING AND STORAGE

Handling : Do not breathe fumes/spray mist. Avoid contact with skin and eyes.
Storage : Keep locked up. Keep container tightly closed. Keep away from sources of ignition - No smoking.
 Keep away from food, drink and animal feedingstuffs. Protect from frost.

Packaging materials

Suitable : Metal drums or Coextruded polyethylene bottles.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures : Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.

Hygiene measures : Wash hands thoroughly after handling. Wash clothing separately before re-use.

Occupational Exposure Limits

Common name : Bupirimate
 : 8 hour TWA 10 mg/m³.

Common name : n-Butanol

MATERIAL SAFETY DATA SHEET
OSCAR (Bupirimate)

: 15 minute STEL 50 ppm
 154 mg/m³
Common name : **Hexaconazole**
 : 8 hour TWA 10 mg/m³.
Common name : **Solvesso 150**
TLV (USA) : Not available.
 OEL = 50 ppm.

Personal protective equipment

Respiratory system : During spraying wear suitable respiratory equipment.
Skin and body : Wear suitable protective clothing and chemical resistant boots.
Hands : Wear suitable gloves.
Eyes : Safety goggles or face shield.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : Liquid.
Colour : Amber.
Odour : Aromatic.
Density : 0.93 g/cm³.
Flash point : 36°C.
Explosion properties : Not applicable.

10. STABILITY AND REACTIVITY

Stability : Stable under normal conditions.
Hazardous reactions : None known under normal conditions of handling and use.
Hazardous decomposition products : Emits toxic and irritating fumes (on decomposition or combustion)

11. TOXICOLOGICAL INFORMATION

Acute toxicity - Oral : LD₅₀ > 2000 mg/kg (rat).
Acute toxicity - Dermal : LD₅₀ > 4000 mg/kg (rat).
Acute toxicity - Inhalation : Unlikely to cause harmful effects when handled and used as directed on the label.
Skin irritation : Moderate to severe irritant (rabbit).
Eye irritation : The concentrated mixture is severely irritating to eyes (rabbit).
Sensitization : Mild sensitizer (Buehler method).

12. ECOLOGICAL INFORMATION

Ecotoxicity : Toxic to fish:
 LD₅₀ Approx. 4 mg/l, 96 hours (rainbow trout).

MATERIAL SAFETY DATA SHEET

OSCAR (Bupirimate)

13. DISPOSAL CONSIDERATIONS

Methods of disposal : Disposal according to the local legislation.

14. TRANSPORT INFORMATION

International transport regulations

UN number : 1993

Land - Road/Railway

Proper shipping name : Flammable liquid, N.O.S. (Solvents, Bupirimate, Hexaconazole).

ADR/RID Class : 3

ADR/RID Item number : 31°(c)

Packing group : III

Hazard Identification : 30

Number

Inland waterways

Sea

Proper shipping name : Flammable liquid, N.O.S. (Solvents, Bupirimate, Hexaconazole).
Marine pollutant.

IMDG Class : 3.3

Packing group : III

Air

Proper shipping name : Flammable liquid, N.O.S. (Solvents, Bupirimate, Hexaconazole).

UN/ID Number : 1993

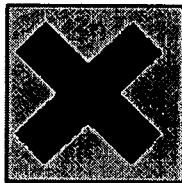
National transport regulations

No additional national transport regulations are known to the supplier

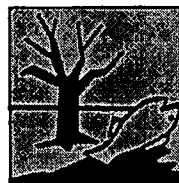
15. REGULATORY INFORMATION

Classification : This product is provisionally labelled by the supplier in accordance with the suppliers understanding of the EU regulations:

Hazard symbol(s) : F, Xi, N



IRRITANT



DANGEROUS FOR THE ENVIRONMENT

Risk phrases : R10: Flammable.
R36/38: Irritating to eyes and skin.
R43: May cause sensitization by skin contact.
R51/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

MATERIAL SAFETY DATA SHEET

OSCAR (Bupirimate)

Safety phrases

:
S24: Avoid contact with skin.
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

Contains

: 250 g/l Bupirimate,
30 g/l Hexaconazole,
100 g/l Kerosene,
300 g/l n-Butanol,
150 g/l Solvesso 150
30 g/l Alkylphenol ethoxylates.

16. OTHER INFORMATION

Recommended use : Fungicide.

The information contained in the Safety Data sheet is correct to the best of our knowledge at the date of issue. It is intended as a guide for the safe use, handling, disposal, storage and transportation and is not intended as a warranty or as a specification. The information relates only to the product specified and may not be suitable for combinations with other materials or in processes other than those specifically described herein.

HISTORY

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