

Material Safety Data Sheet

Deccox[®]

Issue date: September 22, 1998

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1. Identification of substance/ preparation and of the company/ undertaking

Trade name: DECCOX[®]

Chemical name: Decoquinat

Synonyms: ethyl 6-n-decyloxy-7-ethoxy-
4-hydroxyquinoline-3-carboxylate

CAS No.: Not applicable

Chemical Family: Not applicable

Product Use: Veterinary medicine

UN No.: Not applicable

Marketed by: AlphaPharma, Inc.
One Executive Drive
Fort Lee, NJ 07024
Telephone 201-947-7774

Emergency phone no. 24 hrs:
Chemtrec 1-800-424-9300

2. Composition/Information on ingredients

| Components | CAS No. | % | PEL * |
|-------------------|------------|------|--------------------------|
| Decoquinat** | 18507-89-6 | 6.0% | 10 mg/m ³ *** |
| Corn meal | 68525-86-0 | -- | |
| Soybean oil** | 8001-22-7 | -- | |
| Lecithin | 8002-43-5 | -- | |
| Silicon dioxide** | 7631-86-9 | | |

The following components, present at a concentration of $\geq 0.1\%$, are listed as carcinogens or potential carcinogens by either the National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC) or OSHA:

| Component | CASNo. | % | PEL * |
|-----------|--------|---|-------|
| None | | | |

* Permissible Exposure Limit

** OSHA regulated Components (present at $\geq 1\%$)

*** As a nuisance dust

3. Hazards identification

NFPA Hazard Rating (National Fire Protection Association)

Health 2 Fire 1 Reactivity 1 Special

4. First-aid measures

Breathing: Remove from source. Seek medical attention immediately if an adverse reaction develops.

Skin: Immediately rinse exposed areas with water, then wash with soap and water for at least 5 minutes. Remove and clean contaminated clothing and shoes before reuse. Seek medical attention if irritation develops or persists.

Eye: Immediately flush with lukewarm water for at least 15 minutes. Seek medical attention if irritation develops or persists.

Swallowing: If swallowed and victim is fully conscious, induce vomiting immediately by giving two glasses of water and sticking finger down throat. Seek medical assistance as needed.

Note to Physician: Treat symptomatically, based upon the judgement of the physician.

5. Fire-fighting measures

Flammable Properties:

Flash point and method: N/A

Flammable Limits STP: N/A

Extinguishing Media: Water fog, dry chemical, foam or carbon dioxide as appropriate for surrounding fire.

Fire-fighting Procedures: Wear full protective clothing and a self-contained breathing apparatus. Water spray can be effective in cooling fire exposed containers.

Special Fire-fighting Procedures: Not applicable

Sensitivity to Explosion:

Explosion by static discharge: Dry powders can build static electricity charges when subjected to the friction of conveying, mixing or sliding. To prevent ignition, provide adequate precautions, such as electrical grounding, or inert atmospheres when material is used in the presence of flammable materials.

Conditions of Flammability: N/A

Unusual Fire and Explosion Hazards: There exists a potential dust explosion hazard for this mixture.

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6. Accidental release measures

General: Sweep up into a steel drum. Avoid creating dusting conditions. Ventilate area. Wash spill area with water after material pickup is complete.

Exposure Controls/Personal Protection:

Utilize the appropriate personal protective equipment listed in Section 8.

7. Handling and storage

Handling: Avoid breathing dusts or mists. Avoid direct or prolonged contact with skin and eyes. Wash hands thoroughly after handling. Do not rub eyes with soiled hands. Do not eat, drink or smoke in the work area. Keep away from foodstuffs, feeds, seeds, etc. and strong oxidizing agents.

Storage: Store in cool, dry place in tightly closed containers. Keep away from foodstuffs, feeds, seeds, etc. and strong oxidizing agents.

8. Exposure controls/personal protection

Engineering Controls: Provide adequate ventilation. Use local exhaust as needed. Prevent dust accumulation in the air.

Respiratory Protection: Use a NIOSH/MSHA approved air purifying respirator with appropriate cartridge over long periods of exposure (during manufacture). For short-term exposures a NIOSH/MSHA approved dust mask will suffice.

Eye/Face Protection: Wear eye covering with side shields. Maintain a sink and eyewash fountain in the work area.

Skin Protection: Work uniform, gloves. Maintain a sink and eyewash fountain in the work area.

Other Precautions: READ LABEL CAREFULLY BEFORE USE. Do not feed to animals producing milk for food. Do not feed to laying chickens. THIS IS A RESTRICTED DRUG USE ONLY AS DIRECTED. KEEP OUT OF REACH OF CHILDREN AND ANIMALS.

9. Physical and chemical properties

Appearance: Cream-buff solid (fine amorphous powder)

Odor: Slight odor.

Taste: N/A

Solubility in Water: Insoluble.

Explosive Properties: There exists a potential dust explosion hazard for this mixture

Oxidizing Properties: N/A

10. Stability and reactivity

Stable: Yes

Strong Oxidizer: Not applicable

Hazardous Polymerization: Does not polymerize.

Incompatibility: Avoid strong oxidizing materials and strong bases.

Conditions to avoid: Avoid open flames or other high temperature sources. Avoid dusting conditions.

Hazardous Decomposition Products: On combustion, oxides of silicon, carbon and nitrogen are emitted.

11. Toxicological information

This mixture has not been tested as a whole. The information presented below is for the active ingredient, decoquinatate (D), and soybean oil (SO):

Acute Animal Toxicity

Oral rat LD₅₀: > 5000 mg/kg (D).

Inhalation rat: 4 g/m³ for 6 hrs- no toxic signs (D).

IV, rat LD₅₀: 16,500 mg/kg (SO).

IV, mouse LD₅₀: 22,100 mg/kg (SO).

Acute Human Experience

Breathing: For silicon dioxide, inhalation of dusts may have a dehydrating effect on the mucous membranes. Studies have shown no adverse effects to serial pulmonary function values and chest radiographs in workers exposed to amorphous silica. (ACGIH Documentation 1986)

Skin contact: No data found. Silicon dioxide can have a dehydrating effect. Regarding skin absorption, no data found.

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Eye contact: No data found. Silicon dioxide can have a dehydrating effect.

Swallowing: Low acute oral toxicity.

Chronic Animal Toxicity

No information available.

Chronic Human Experience

This product is not a known carcinogen. As with any dust, in high concentrations, may cause injury to skin, eyes, or respiratory tract.

12. Ecological information

There are no known benefits or harmful effects of this product on the environment.

13. Disposal considerations

Product: Dispose of in accordance with local, state, and federal regulations.

Packaging: Dispose of in accordance with local, state, and federal regulations.

14. Department of Transportation (D.O.T.) information

Proper Shipping Name: Deccox

Hazard Class: Non-hazardous

Type of Packaging: Multi-layered paper bags with Valeron liner.

Transport Label: No special label required.

Placard: Not applicable

Marking: Not applicable

Exempt: Not governed by D.O.T. regulation

15. Regulatory Information

This product is approved and regulated by the US FDA.

Other Environmental Information:

OSHA:

This product is considered hazardous under the OSHA Hazard Communication Standard (29CFR 1910.1200).

RCRA (40 CFR 261, Subpart D):

None of the OSHA regulated components are listed as hazardous wastes under 40 CFR 261 (Subpart D).

SARA:

Sections 301-304 (Threshold Planning quantity- TPO) 40 CFR 355:

No TPQ for any OSHA regulated component.

Sections 311-312 (Community Right to Know)

40 CFR 370:

Not applicable to any of the OSHA regulated components.

Section 313 (Toxic Chemical Release reporting)

40 CFR 372:

Not applicable to any OSHA regulated component.

CERCLA:

Section 102 (Reportable Quantity RO) 40 CFR 302:

Not applicable to any OSHA regulated component.

16. Other information

Note: The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.