

## MATERIAL SAFETY DATA SHEET

#### **SECTION 1 - IDENTIFICATION OF PRODUCT AND COMPANY**

Pfizer IncEmergency telephone1-866-531-8896Pfizer Animal HealthHours of operation24 Hours

**235 East 42nd Street** Telephone 1-800-366-5288

New York, NY 10017

Trade names VALBAZEN® SUSPENSION

Product Name Albendazole suspension

Therapeutic use Anthelmintic

**Description** Odorless, white, smooth, uniform liquid suspension

## **SECTION 2 - COMPOSITION**

Ingredient	CAS Number	<u>Amount</u>
Albendazole*	54965-21-8	<12.0%
Benzoic Acid*	65-85-0	Proprietary
Glycerin*	56-81-5	Proprietary
Magnesium aluminum silicate*	1327-43-1	Proprietary
Polysorbate 80 - NF	9005-65-6	Proprietary
Potassium sorbate*	590-00-1	Proprietary
Simethicone	8050-81-5	Proprietary
Sodium carboxymethyl cellulose USP	9004-32-4	Proprietary
Sorbitan monolaurate	1338-39-2	Proprietary

\*Hazardous

Note: Ingredient(s) indicated as hazardous have been assessed under US OSHA

Hazard Communication Standard for workplace safety (29 CFR

1910.1200).

## **SECTION 3 - HAZARDS IDENTIFICATION**

Signal word WARNING!

Statements of hazard REPRODUCTIVE HAZARD

MAY CAUSE BLOOD, LIVER, OR TESTICULAR EFFECTS

Eye effects Active ingredient is not an irritant (based on animal data). May cause

irritation based on components.

**Skin effects** Active ingredient is not a skin irritant(based on animal data). May cause

irritation based on components. May cause allergic skin reaction based on

components.

Pfizer Inc.

Revision date: 09/20/01, Version: 1.1.0

#### SECTION 3 - HAZARDS IDENTIFICATION ... continued

**Inhalation effects** An Occupational Exposure Limit has been established for one or more of

the ingredients (see Section 8).

**Ingestion effects** See 'Statements of hazard', 'Known clinical effects', and/or 'Other potential

health effects' in this section.

**Known clinical effects** Adverse effects seen in clinical use include gastrointestinal discomfort,

dizziness, and headache.

Other potential health

effects

While incidental administration to mothers during the first trimester of pregnancy was without adverse effects on offspring, albendazole has caused teratogenic effects in animals and is considered to be a

reproductive hazard.

**NOTE:** This document has been prepared in accordance with the US OSHA

Hazard Communication Standard, which requires the inclusion of all known hazards of the product or its ingredients regardless of the potential risk. The precautionary statements and warnings included may not apply in all cases. Your needs may vary depending upon the potential for exposure

in your workplace. If your workplace is regulated by OSHA, this

document must be used as a part of a complete hazard-training program.

#### **SECTION 4 - FIRST AID MEASURES**

**Skin** Remove clothing and wash affected skin with soap and water. If irritation

occurs or persists, get medical attention.

**Eyes** Immediately flush eyes with water for at least 15 minutes. If irritation

occurs or persists, get medical attention.

**Inhalation** Remove to fresh air. If not breathing, give artificial respiration. Get

medical attention.

**Ingestion** Get medical attention. Do not induce vomiting unless directed by medical

personnel. Never give anything by mouth to an unconscious person.

#### **SECTION 5 - FIRE FIGHTING MEASURES**

**General hazard** Toxic or corrosive emissions may be given off in a fire.

**Fire fighting instructions** Wear approved positive pressure, self-contained breathing apparatus and

full protective turn out gear.

**Extinguishing media** Use water, carbon dioxide, foam or dry chemical extinguishers.

Flash point Not applicable

**Hazardous combustion** 

products

Not known

#### SECTION 6 - ACCIDENTAL RELEASE MEASURES

**General** Review Sections 3, 8 and 12 before proceeding with clean up.

Small spill Use non-combustible absorbent material to wipe up spill and place in a

sealed container for disposal. Clean spill area thoroughly. Prevent

discharge to drains.

Large spill Use appropriate containment to avoid environmental contamination.

Collect spill with a non-combustible absorbent material and transfer to labeled container for disposal. Close container and move it to a secure

holding area.

#### **SECTION 7 - HANDLING AND STORAGE**

General handling Eliminate possible ignition sources (e.g., heat, sparks, flame, impact,

friction, electricity), and follow appropriate grounding and bonding procedures. Use only in a well-ventilated area. Avoid breathing dust,

vapor or mist.

**Storage conditions** Avoid prolonged storage at elevated temperatures (greater than room

temperature, approximately 20 degrees C). Keep in tightly closed containers or packages away from moisture. Protect from freezing.

Temperature range for storage

Store at room temperature 15-30°C (59-86°F)

## **SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Exposure limits** 

 $\begin{array}{ccc} \underline{\text{Compound}} & \underline{\text{Issuer}} & \underline{\text{Type}} & \underline{\text{OEL}} \\ \text{Albendazole} & \text{Pfizer} & \text{TWA-8 HR} & 0.8 \text{ mg/m}^3 \end{array}$ 

Glycerin OSHA TWA-8 Hr 5 mg/m³ (respirable fraction)

OSHA TWA-8 Hr 15 mg/m³ (total dust) ACGIH TWA-8 Hr 10 mg/m³ (mist)

**Exposure information** The exposure limit(s) listed for solid components are only relevant if dust

may be generated.

**Measurement method** Albendazole: CAM-KAS-97-08 (contact Pfizer for additional details).

**Ventilation** Engineering controls should be used as the primary means to control

exposures.

**Respiratory protection** If the applicable Occupational Exposure Limit (OEL) is exceeded, wear an

appropriate respirator with a protection factor sufficient to control

exposures to below the OEL.

**Eye protection** Wear safety glasses with sideshields if eye contact is possible.

## SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION ... continued

**Skin protection** Use protective clothing (uniforms, lab coats, disposable coveralls, etc.) in

both production and laboratory areas. Wash hands and arms thoroughly

after handling this material.

**Hand protection** Wear protective gloves to avoid routine skin contact.

### **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Physical form Suspension

**Color** White

**Odor** Odorless

Molecular weight Mixture

Molecular formula Mixture

**pH** No data available

**Boiling point** Not applicable

Melting point No data available

**Density** No data available

Vapor pressure Not applicable

Water solubility Soluble

**Solvent solubility** No data available

#### **SECTION 10 - STABILITY AND REACTIVITY**

**Reactivity** Stable

Conditions to avoid Avoid extreme temperatures

**Incompatibilities** None known

Hazardous decomposition

products

No data available

Hazardous Will not occur

polymerization

## **SECTION 11 - TOXICOLOGY INFORMATION**

**Toxicology summary** The information included in this section describes the potential hazards of

the active ingredient, except where noted.

Pfizer Inc.

Revision date: 09/20/01, Version: 1.1.0

# SECTION 11 - TOXICOLOGY INFORMATION ... continued

Acute toxicity						
Compound Albendazole	Type LD <sub>50</sub> LD <sub>50</sub> Irritation Irritation	Route Oral Oral Dermal Ocular	Species Rat Mouse Rabbit Rabbit	<u>Dosage</u> >1320 mg/kg >3000 mg/kg 500mg:NEG 100mg:NEG		
Glycerin	Irritation Irritation	Dermal Ocular	Rabbit Rabbit	500mg:MLD 500mg:MLD		
Eye	Some irritation may be expected based on components. See Acute toxicity table.					
Skin	Some irritation may be expected based on components. See Acute toxicity table.					
Inhalation	No data available					
Ingestion	See table above					
Mutagenicity	This material was not mutagenic in bacteria (Ames test) or animal cells (cell-mediated Chinese hamster ovary test).					
Sensitization	Albendazole is not a sensitizer. Sensitization (allergic skin reaction) may occur, based on effects of individual components.					
Subchronic effects	Oral administration of up to 1600 mg/kg/day to rats, mice, or dogs in studies of 4-weeks to six months in duration resulted in reduced hematological counts; liver, testes, adrenal and spleen effects; and significant mortality in rats and mice at 168 and 1600 mg/kg/day, respectively.					
Chronic effects/ carcinogenicity	In a two-year oral administration study in mice with doses up to 400 mg/kg/day, histopathologic changes in the testes of males and in the liver of males and females were noted at 400 and at both the 100 and 400 mg/kg/day dose levels, respectively. A two-generation feeding study was conducted in rats, with the second (F <sub>1</sub> ) generation receiving up to 20 mg/kg/day for 28 months. There were no effects noted in the first generation (F <sub>0</sub> ), however, reduced hematologic counts and effects on testes and liver were observed in the high-dose F <sub>1</sub> animals.					
Carcinogen status	None of the components of this formulation is listed as a carcinogen by IARC, NTP or OSHA.					
Reproductive effects	Rat reproductive toxicity studies showed only minimal effects on male and female reproduction.					
Teratogenicity	Teratogenic effects (birth defects) and/or toxicity to developing offspring occurred in studies with rats, rabbits, sheep and swine at doses as low as 5 to 10 mg/kg.					

110048 - VALBAZEN® (Albendazole) suspension

**Target organs** 

Pfizer Inc. Page 5 of 7 Revision date: 09/20/01, Version: 1.1.0

Hematological system, testes, liver

## SECTION 11 - TOXICOLOGY INFORMATION ... continued

At increased risk from

exposure

This material produced developmental toxicity in studies with animals. Over exposure during pregnancy might have an adverse effect on

developing offspring.

**Additional information** 

FDA PREGNANCY CATEGORY C. Animal studies have shown adverse effects on the fetus. There are no adequate and well-controlled

studies in pregnant women.

#### **SECTION 12 - ECOLOGICAL INFORMATION**

**Environmental overview** In the environment, the active ingredient in this formulation is expected to

bind to soil or sediment and not persist. Harmful effects to aquatic

organisms could occur.

Mobility, persistence, and degradability:

The active ingredient in this formulation is expected to bind to soil, sediment, or with solids in a wastewater treatment facility and degrade rapidly when exposed to sunlight. [Half-life<1/2 day in sunlight.]

Bioaccumulation and

toxicity:

Acute toxicity to aquatic organisms may occur. The active ingredient in this formulation has low potential to bioaccumulate and long-term adverse

effects to aquatic organisms are not expected. See aquatic toxicity data,

below.

**Aquatic toxicity** 

CompoundTypeSpeciesGlycerinLC50/96hRainbow Trout

Dosage 50-67 mg/L

Log P (octanol/water partition coefficient)

2.7 (albendazole)

**Adsorption Coefficient** 

(Koc)

7800 - 27500 (albendazole)

## **SECTION 13 - DISPOSAL INFORMATION**

**Disposal procedure** Incineration is the recommended method of disposal for this material.

Observe all local and national regulations when disposing of this material.

#### **SECTION 14 - TRANSPORTATION INFORMATION**

General shipping instructions

Not regulated for transport under USDOT, EUADR, IATA, or IMDG

regulations.

#### **SECTION 15 - REGULATORY INFORMATION**

**EU Classification** Substance toxic to reproduction, Category 2

# SECTION 15 - REGULATORY INFORMATION ... continued

T

**EU Labelling** 

**EU Label Pictogram(s)** 



**Risk phrases** R48/22 - Harmful: danger of serious damage to health by prolonged

exposure if swallowed.

R61 - May cause harm to the unborn child.

**Safety phrases** S53 - Avoid exposure - obtain special instructions before use.

Canadian WHMIS Class D, Division 2, Subdivision A

## **SECTION 16 - OTHER**

Disclaimer Pfizer Inc believes that the information contained in this Material

Safety Data Sheet is accurate, and while it is provided in good faith, it

is without a warranty of any kind, expressed or implied.

110048 - VALBAZEN® (Albendazole) suspension Revision date: 09/20/01, Version: 1.1.0