

# Product Information

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## ToxiBan™

### Three treatments for animal poisoning with our family of ToxiBan products

**ToxiBan Granules** contains 47.5% MedChar™ (activated charcoal) 10% Kaolin and 42.5% wetting and dispersing agents, including sorbitol, and is free-flowing and wettable for rapid constitution in water.

Activated charcoal adsorbs toxins in the gastrointestinal tract

- Kaolin acts both as an adsorbent and as an intestinal protectant
- Sorbitol acts as a mild osmotic cathartic
- May use as a powder in food or in a suspension
- Economical for herd use

**ToxiBan Suspension** contains 10% MedChar™ (activated charcoal) and 6.25% Kaolin in an aqueous base. It is a stable suspension which is intended for use as a convenient emergency treatment of small animals or small numbers of large animals.

Activated charcoal is the single most valuable antidote

- Kaolin protects inflamed GI mucosa and removes bacteria and endotoxins
- Convenient for small animal and single large animal use
- Allows multiple dose use without catharsis

**ToxiBan Suspension with Sorbitol** is a convenient ready-to-use activated charcoal suspension containing 10% MedChar™ (activated charcoal) 10% Sorbitol and 6.25% Kaolin in an aqueous base with special suspending agents and preservatives intended for use as an emergency treatment of small animals.

Activated charcoal has been called the universal antidote

- Kaolin is powdered and refined for pharmaceutical use
- Sorbitol is a hyperosmotic cathartic which promotes passage of activated charcoal and its adsorbed toxin
- For use when adsorption and catharsis are desired

#### Indications and Usage:

ToxiBan Granules, ToxiBan Suspension and ToxiBan Suspension with Sorbitol are most effective when administered as soon as ingestion of a toxicant is suspected. They can also be used in some toxic emergencies when absorption of the toxicant is nearly complete or the exposure was via a parenteral route. This application usually involves repetitive or multiple dose activated charcoal use. Multiple doses of charcoal may be used in adsorbing toxins which undergo enterohepatic circulation. Frequent doses of activated charcoal can adsorb those toxins, interrupt the enterohepatic circulation, thereby preventing their reabsorption, and enhance toxicant elimination from the body into the gastrointestinal tract. (See package insert for more detailed information.)

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***Kaeco Group, Inc.***

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## ToxiBan™

### Toxicants That Bind to Activated Charcoal

Acetaminophen	Fungicides	Organophosphorus insecticides
Amphetamines	Hexachlorophene	Parathion
Anthelmintics	Ipecac	Phenobarbitol
Antibiotics	Isoniazid	Phenothiazine
Aspirin	Malathion	Phenylbutazone
Atropine	Mefenamic acid	Phenylpropanolamine hydrochloride
Barbiturates	Meprobamate	Phenytoin
Camphor		Quinacrine hydrochloride
Cantharides	Methylene blue	Quinidine
Carbamazepine	Methyl salicylate	Quinine
Carbamates	Morphine	Rodenticides
Chlordane	Muscarine	Salicylamide
Chloroquine	Narcotics	Salicylates
Chlorpheniramine	Nicotine	Strychnine
Cocaine	Nortriptyline	Sulfonamides
Diazepam	Organic iodine	Theophylline
2,4-D (dichlorophenoxy acetic acid)	Organic metal compounds	Tricyclic antidepressants
Digitalis	Organochlorine insecticides	
Digitoxin		
Ethylene glycol*		

\*TESTS FOR ETHYLENE GLYCOL MUST BE CONDUCTED BEFORE TOXIBAN IS ADMINISTERED TO PREVENT FALSE POSITIVE REACTIONS.

#### Contraindications:

There are no known absolute contraindications to the use of activated charcoal (see package insert). It should not be given simultaneously or shortly before the oral administration of other therapeutic agents such as antibiotics, vitamins, or amino acids. Antibiotic therapy should be administered parenterally when ToxiBan is used.

#### Precautions:

All three ToxiBan products are adjuncts in the management of poisoning emergencies. Prior to their use proper basic life support measures must be implemented as well as the appropriate gastric emptying technique if indicated. Since more than an hour may pass before activated charcoal can be administered without regurgitation after an emetic has been given, it may be more effective to give ToxiBan immediately because adsorption of a toxicant may be a more effective removal than vomiting.

When ToxiBan therapy is used, it should be noted the products will produce black stools. These stools may have a diarrhea consistency and may persist for several hours. Since a profound cathartic effect may occur following the use of ToxiBan Suspension with Sorbitol, proper attention should be provided to the animal's fluid and electrolyte needs.

ToxiBan Suspension with Sorbitol should be used cautiously in animals receiving multiple dose activated charcoal therapy. If ToxiBan Suspension with Sorbitol is used at each dosage interval, profound catharsis may develop resulting in dehydration and even hypotension. ToxiBan Suspension should be used for multiple use, and cathartics should only be used intermittently during multiple dose activated charcoal use.

#### Administration:

Administration: ToxiBan Suspension or ToxiBan Suspension with Sorbitol may be given as is or mixed with a small amount of cold water to reduce viscosity and improve flow. Dilute suspensions of ToxiBan Granules should be stirred or agitated frequently during administration to keep the liquid uniform and prevent equipment clogging. A stomach tube is preferred for administration in all animals, but an oral drench may be used in emergency. Rinse the liquid receptacle with cold water and administer the rinsing.

#### Dosage:

**ToxiBan Granules** - To make a thin suspension mix one volume measure with 5 to 7 parts of cold water (Ex: one level cup ToxiBan Granules to 6 cupfuls water) and shake or stir vigorously for 10 to 30 seconds until good suspension is obtained.

#### Large Animals

The recommended dosage is 0.75 to 2.0 grams per kilogram (0.35 to 0.9 grams per pound) body weight. One pound (453.6 grams) will normally treat an animal weighing 225 to 600 kilograms (500 to 1300 pounds).

#### Small Animals

2 to 4 grams per kg (1 to 2 grams per pound) body weight.

#### ToxiBan Suspension or ToxiBan Suspension with Sorbitol -

**Small Animals** - 10 to 20 mL per kg (5 to 10 mL per pound) body weight.

**Large Animals** - 4 to 12 mL per kg (2 to 6 mL per pound) body weight.

#### How Supplied:

ToxiBan Suspension, 240 milliliters 12 per carton

ToxiBan Suspension with Sorbitol, 240 milliliters 12 per carton

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