

Precautionary Statements

Hazards to Humans & Domestic Animals

KEEP OUT OF THE REACH OF CHILDREN

CAUTION

Harmful if swallowed. Do not pour or spill near open flame. Remove pets, birds and cover fish aquaria before spraying. Do not breathe spray mist. Wear mask or respirator of a type recommended by the U.S. Bureau of Mines to give adequate protection against this material. Wear protective clothing. Wash exposed skin surfaces with soap and water after handling and before eating or smoking. Wash all contaminated clothing with soap and hot water before reuse.

Do not apply directly to food. Do not apply space spray while food processing is underway. Foods should be removed or covered before treatment. Thoroughly wash all food processing surfaces before reuse. After spraying in bakeries and food processing plants, wash with potable water all equipment, benches, shelving, etc. where exposed food will be handled. Food processing operations should not have to be stopped when applying a wet spray with care and in accordance with the directions and cautions given above.

When using in a confined space, provide adequate ventilation and water to cool the space.

ENVIRONMENTAL HAZARDS: This product is toxic to fish. Keep out of lakes, streams, ponds, tidal marshes and estuaries. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning, rinsing, or disposal of a container. Do not apply where these are important to agriculture.

STORAGE AND DISPOSAL: Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.

Pesticide spray mixture or residue that cannot be used or chemically processed should be disposed in a landfill approved for pest control or buried in a safe place away from water supplies.

Metal Drum: Reseal container and offer for reconditioning or recycling, or equivalent, and offer for recycling, reconditioning or disposal in a safe place, or offer for recycling, reconditioning or disposal in a safe place. Consult Federal, state or local disposal authorities for approved alternate procedures.

Plastic Pail: Triple rinse, or equivalent, and dispose in an approved landfill approved for pesticide containers, or bury in a safe place. Consult Federal, state or local disposal authorities for approved alternate procedures such as incineration or deep burial.

DuTOXIDE ULD

CONCENTRATED SPACE SPRAY

ACTIVE INGREDIENTS:

Pyrethrins	1.0%
*Piperonyl Butoxide	5.0%
Petroleum Distillate	94.0%
	100.0%

*Equivalent to 4.0 (butylcarbityl) (6-propylpiperonyl) ether and 1.0% related compounds.

CAUTION: KEEP OUT OF REACH OF CHILDREN

Statement of Practical Treatment

In case of contact, immediately flush eyes or skin with plenty of water. For eyes, call a physician. Remove and wash contaminated clothing before reuse.

If swallowed, drink promptly a large quantity of milk, egg whites, gelatin solution or if these are not available, drink large quantities of water and alcohol. Call a physician immediately.

DO NOT INDUCE VOMITING. Ingestion treatment must be directed by a physician. Aspiration is a hazard to patient after ingestion.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression, and convulsions may be needed.

See Left Panel for Additional Precautionary Statements.

DuTOXIDE ULD effectively controls the following insects when the applicator follows the directions for use as given below:

Angoumois Grain Moth, Ants, Boulder Bugs, Caddis, Cheese Mites, Cheese Skippers, Cigarette Beetles, Clover Mites, Cockroaches, German, Confused Flour Beetles, Crickets, Dark Mealworms, Deer Flies, Dried Fruit Beetles, Drugstore Beetle, Earwigs, Fruit Flies, Fungus Gnats, Gnats, Grain Mites, Granary Weevils, Horn Flies, Humets, Horse Flies, House Flies, Indian Meal Moths, Lice, Mosquitoes, Mediterranean Flour Moth, Mushroom Flies, Red Flour Beetles, Rice Weevils, Sawtoothed Grain Beetles, Silverfish, Small Flying Moths, Spiders, Spider Beetles, Stink Flies, Tobacco Moths, Wasps and Yellow Mealworms.

Indoor Use: Unadvised. The use of this product in food processing or food handling establishments (bakeries, beverage plants, canneries, food processing plants, hospitals, hotels, industrial installations, meat packing plants, restaurants, schools, supermarkets and warehouses) should be avoided. Use outdoors when the plants or facilities are not in operation. Foods should be removed or covered during treatment. All food processing surfaces should be covered during treatment or thoroughly cleaned before reusing.

ACCEPTED

MAY 27 1982

Insecticide,
Fungicide,
and Rodenticide Act
5736-74

Net contents shown elsewhere on container
EPA Reg. No 5736-74 • EPA No 5736-OH-1



DUBOIS CHEMICALS, A DIVISION OF CHI

CONTACT YOUR DUBOIS REPRESENTATIVE

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

DuTOXIDE UL-D is effective for control of pests on outdoor application as a space area or contact spray. To be controlled and the area to be treated may be treated by Aerosol Generators, UL-D, as well as conventional equipment.

Indoor Use Areas: Baiting, Beverage Plant, Dried Food Products in Storage, Flour Mills, Horse Barns, Hospitals, Hotels, Industrial Buildings, Railroad Cars, Homes, Schools, Paper or Cloth Mills, Supermarkets, Sausage Houses, Ships, Hotels, Zoos and Restaurants.

Outdoor Use Areas: Camps, Drive in Restaurants, Drive in Theaters, Food Lots, Golf Courses, Parks, Playgrounds, Recreational Areas, Sausage Plants, Urban Areas and Zoos.

Space and Contact Spray Application: To control accessible adult stages of Flies, Fruit Flies, Mosquitoes, Small Flying Moths, Wasps, Hornets, Crater Wasps, Cheese Mites, Cheese Sappers, Beetle Beetles, Earwigs, Ants, Cockroaches, German, Brown and Silverfish and the following common stored product pests: Granary Weevils, Rice Weevils, Confused Flour Beetles, Sawtoothed Grain Beetles, Spout Beetles, Cigarette Beetles, Grain Beetles, Angoumois Grain Moths, Mediterranean Flour Moth, Indian Meal Moths, Tobacco Moths, Yellow Mealworms, Dark Mealworms, Grain Weevils, Red Flour Beetles and Casidites.

Close doors and windows and shut off ventilating systems. Use a mechanical exhaust generator or a fogger adjusted to deliver an air stream of 100 microns or less. Direct the spray into all cracks and crevices behind all equipment, cupboards, obstructions or dark harborage areas to insure maximum penetration and impingement on the insects. Then treat as a contact spray, directing the spray towards the ceiling and upper corners of the area and behind any obstructions, apply at a rate of 1/2 ounce per 1000 cubic feet of space. Keep area closed for at least one hour. Vacuum treated area and ventilate before reoccupying. Repeat treatment as necessary.

Treatment of Stored Food Areas: Foods in multi-bale bags or other bags stored in warehouses, storage rooms, flour mills, grain elevators and granaries. To control accessible adult stages of Angoumois Grain Moth, Casidites, Confused Flour Beetles, Indian Meal Moths, Mediterranean Flour Moths, Rice Weevils, Sawtoothed Grain Beetles, Yellow Mealworms, Cheese Mites, Cheese Sappers, Cigarette Beetles, Grain Mites, Grain Weevils, Dark Mealworms, German Cockroaches and Red Flour Beetles.

Infested stored products should be destroyed, fumigated or treated by other effective methods using an approved product used for this purpose. As noted above disperse DuTOXIDE UL-D first by directing spray into cracks and crevices, corners, pallets and around stacks of packaged goods. Then apply as many insects as possible and then apply as a space spray at a rate of 1/2 ounce per 1000 cubic feet of room space. Repeat application as necessary for insect control. Leave the treated areas closed for one hour. Do not remain in the treated area and ventilate before reentry.

Indoor Use Directed SPACE SPRAY APPLICATION: For use in mechanical fogging or spraying equipment. To control accessible stages of Flies, Fruit Flies, Mosquitoes, Gnats and Small Flying Moths.

...and must be used in accordance with the following directions. To control accessible adult stages of Flies, Fruit Flies, Mosquitoes, Small Flying Moths, Wasps, Hornets, Crater Wasps, Cheese Mites, Cheese Sappers, Beetle Beetles, Earwigs, Ants, Cockroaches, German, Brown and Silverfish and the following common stored product pests: Granary Weevils, Rice Weevils, Confused Flour Beetles, Sawtoothed Grain Beetles, Spout Beetles, Cigarette Beetles, Grain Beetles, Angoumois Grain Moths, Mediterranean Flour Moth, Indian Meal Moths, Tobacco Moths, Yellow Mealworms, Dark Mealworms, Grain Weevils, Red Flour Beetles and Casidites.

Indoor Use Directed SPACE SPRAY APPLICATION: For use in mechanical fogging or spraying equipment. To control accessible stages of Flies, Fruit Flies, Mosquitoes, Gnats and Small Flying Moths.

Outdoor Use Directed SPACE SPRAY APPLICATION: For use in mechanical fogging or spraying equipment. To control accessible stages of Flies, Fruit Flies, Mosquitoes, Gnats and Small Flying Moths.

In Mushroom Production and Processing: To control accessible stages of Flies and Fruit Flies.

Use 1/2 ounce of DuTOXIDE UL-D with sufficient water to equal one gallon of diluted spray. Apply at the rate of 1/2 ounce per 1000 cubic feet of space. Direct the spray into all cracks and crevices behind all equipment, cupboards, obstructions or dark harborage areas to insure maximum penetration and impingement on the insects. Then treat as a contact spray, directing the spray towards the ceiling and upper corners of the area and behind any obstructions, apply at a rate of 1/2 ounce per 1000 cubic feet of space. Keep area closed for at least one hour. Vacuum treated area and ventilate before reoccupying. Repeat treatment as necessary.

Surface Spray Application: To control accessible stages of Flies, Boulder Beetles, Fruit Flies, Mosquitoes, Beetles, Earwigs, Lice, Spider Beetles, German Cockroaches, Crickets and Silverfish.

Use 1/2 ounce of DuTOXIDE UL-D with sufficient water to equal one gallon of diluted spray. Apply as a contact spray using appropriate equipment. Direct the spray into all cracks and crevices behind all equipment, cupboards, obstructions or dark harborage areas to insure maximum penetration and impingement on the insects. Then treat as a contact spray, directing the spray towards the ceiling and upper corners of the area and behind any obstructions, apply at a rate of 1/2 ounce per 1000 cubic feet of space. Keep area closed for at least one hour. Vacuum treated area and ventilate before reoccupying. Repeat treatment as necessary.

For In Transit Protection: Clean and spray truck beds, barrels and ships. To control accessible stages of Flies, Mosquitoes, Beetles, Earwigs, Lice, Spider Beetles, German Cockroaches, Crickets and Silverfish.

Treatment of Stored Grain: To control accessible stages of Indian Meal Moth and Angoumois Grain Moth.

Apply to the surface of burlap grain at a rate of 1/2 ounce per 1000 sq. ft. Direct the spray into all cracks and crevices behind all equipment, cupboards, obstructions or dark harborage areas to insure maximum penetration and impingement on the insects. Then treat as a contact spray, directing the spray towards the ceiling and upper corners of the area and behind any obstructions, apply at a rate of 1/2 ounce per 1000 cubic feet of room space. Repeat application as necessary for insect control. Leave the treated areas closed for one hour. Do not remain in the treated area and ventilate before reentry.

Treatment of Flying Insects' Resting Places: To control accessible stages of Mosquitoes, Gnats and Spiders.

Use 1/2 ounce of DuTOXIDE UL-D with sufficient water to equal one gallon of diluted spray. Apply to the surface of burlap grain at a rate of 1/2 ounce per 1000 sq. ft. Direct the spray into all cracks and crevices behind all equipment, cupboards, obstructions or dark harborage areas to insure maximum penetration and impingement on the insects. Then treat as a contact spray, directing the spray towards the ceiling and upper corners of the area and behind any obstructions, apply at a rate of 1/2 ounce per 1000 cubic feet of room space. Repeat application as necessary for insect control. Leave the treated areas closed for one hour. Do not remain in the treated area and ventilate before reentry.

Outdoor Application - Unadvised

For use in mechanical fogging or spraying equipment. To control accessible stages of Flies, Fruit Flies, Mosquitoes, Gnats and Small Flying Moths.

Use 1/2 ounce of DuTOXIDE UL-D with sufficient water to equal one gallon of diluted spray. Apply to the surface of burlap grain at a rate of 1/2 ounce per 1000 sq. ft. Direct the spray into all cracks and crevices behind all equipment, cupboards, obstructions or dark harborage areas to insure maximum penetration and impingement on the insects. Then treat as a contact spray, directing the spray towards the ceiling and upper corners of the area and behind any obstructions, apply at a rate of 1/2 ounce per 1000 cubic feet of room space. Repeat application as necessary for insect control. Leave the treated areas closed for one hour. Do not remain in the treated area and ventilate before reentry.

Use 1/2 ounce of DuTOXIDE UL-D at the following rate:

Truck Speed Miles Per Hour	Flow Rate Gals. 1000 Sq. Ft. Min.
5	17.15
10	24.30

Delivery rates and traveling speeds can be varied slightly so long as the basic objective of 0.002 to 0.003 pounds actual DuTOXIDE UL-D per acre is maintained. Use a swath width of 300 feet for average calculations.

For Temporary Reduction of Annoyance From Flies, Gnats and Mosquitoes

In drive in restaurants, drive in theaters, golf courses, urban areas, parks, playgrounds and other recreational areas. Direct the spray into tall grass, shrubbery and around lawns where these pests may hover or rest. Apply while the air is still and avoid wetting foliage. Application should be made prior to use. Repeat as necessary.

In the treatment of corals, feeders, saweats and zoos, cover any exposed water, drinking fountains and animal feed before application. Fill the area with mist and direct the spray into tall grass, shrubbery and around lawns where the above pests may hover or rest. Apply while the air is still and avoid wetting foliage. In zoos, avoid exposure of reptiles to the product. Repeat as necessary.

Outdoor Application - Directed To Control Mosquito Larvae

Use 48 ounces of DuTOXIDE UL-D with sufficient water to equal 50 gallons of diluted spray. Apply to the surface of burlap grain at a rate of 1/2 ounce per 1000 sq. ft. Direct the spray into all cracks and crevices behind all equipment, cupboards, obstructions or dark harborage areas to insure maximum penetration and impingement on the insects. Then treat as a contact spray, directing the spray towards the ceiling and upper corners of the area and behind any obstructions, apply at a rate of 1/2 ounce per 1000 cubic feet of room space. Repeat application as necessary for insect control. Leave the treated areas closed for one hour. Do not remain in the treated area and ventilate before reentry.

Use On Lawns: To protect against Fleas, Mosquitoes, House Flies and Gnats.

Use 1/2 ounce of DuTOXIDE UL-D with sufficient water to equal one gallon of diluted spray. Apply a light mist sufficient to wet the tips of the grass on lawn and dog yard.

To protect against Stable Flies, Deer Flies and Horse Flies:

Apply the above dilution at 1/2 ounce per acre. For cattle, dairy cattle and horses to sufficient wet the hair, but not to soak, to feed. Repeat this application once or twice a day or as needed to give continued protection.

To control the immature stages of these flies on beef and dairy cattle, apply the dilute spray to the body and the hair. Use 2 ounces or less per acre and repeat every 2 to 3 weeks as required.

Repeat as necessary and use of this product in the field is not recommended without the supervision of a qualified professional.

SOLELY FOR INDUSTRIAL USE —
EMED CORPORATION • CINCINNATI, OHIO 45202 • U.S.A.
 FOR ADDITIONAL USE DIRECTIONS AND MATERIAL SAFETY DATA SHEET

DL-727-400