250391
RECORD NUMBER

PESTICIDE CHEMICAL CODE

REVIEW NUMBER

ECOLOGICAL EFFECTS BRANCH REVIEW

DATE: IN 8-31-89 OUT 9/18/89

FILE OR REG. NO. 352-514

PETITION OR EXP NO.

DATE OF SUBMISSION

DATE RECEIVED BY HED 10-24-89

RD REQUESTED COMPLETION DATE 10-24-89

EEB ESTIMATED COMPLETION DATE 10-24-89

RD ACTION CODE/TYPE OF REVIEW 360

TYPE PRODUCT(S): I, D, H, F, N, R, S Herbicide

DATA ACCESSION NO(S).

PRODUCT MANAGER NO. J.Miller (23)

PRODUCT NAME(S) DPX-L5300/Express

COMPANY NAME Dupont

SUBMISSION PURPOSE RD request for EEB review of "fact sheet"

PESTICIDE CHEMICAL CODE	CHEMICAL AND FORMULATION	% A.I.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

MEMORANDUM

SUBJECT: DPX-L5300 Express Herbicide "Fact Sheet"

TO: JoAnne Miller, PM 23
Fungicide-Herbicide Branch
Registration Division H7505C

FROM: Jim Akerman, Chief
Ecological Effects Branch
Environmental Fate and Effects Division H7507C

EEB has evaluated the above referenced pesticide fact sheet. EEB has found that the fact sheet's fish and wildlife toxicity summary is consistent with the information available in EEB's chemical files. Please forward EEB a copy of the fact sheet once it becomes finalized so that the chemical files will be current.

John Noles
John Noles, Biologist
Ecological Effects Branch
9/8/89

2

from less than 1 day at pH 5 to 3 to 6 days at pH 7 to more than 32 days at pH 9. Express is resistant to degradation in soil when exposed to natural sunlight.

Exposure of Humans to Pesticides and Reentry: Applicator exposure assessment or reentry exposure are not required because of the lack of significant chronic concerns and low acute toxicity (Category III and IV) result in low exposure to humans.

Based on available information, only the minimal reentry intervals required by law should be imposed at this time. Entry into treated fields shall not be permitted without protective clothing until sprays have dried and dusts have settled.

Ecological Characteristics:

Acceptable data are available to satisfy the requirements for an avian single dose acute oral toxicity study on one species; two subacute dietary toxicity studies on one species of waterfowl and one species of upland game bird; two 96-hour fish acute toxicity studies on two species of freshwater fish, preferably one coldwater species and one warmwater species; and a 8-hour acute toxicity study with freshwater invertebrates. Studies that satisfy these requirements are listed below.

o Avian Acute Oral Toxicity: Bobwhite Quail LD_{50} > 2250 mg/kg;

3

- Avian Acute Dietary Toxicity: Mallard Duck LD_{50} > 5620 ppm and Bobwhite Quail > 5620 ppm;

- Freshwater Fish Acute Toxicity: Bluegill Sunfish LC_{50} > 1000 ppm and Rainbow Trout LC_{50} > 1000 ppm; and

- Freshwater Invertebrate Toxicity: Daphnia magna LC_{50} 720 ppm.

Based on the above data, Express is practically nontoxic to birds on an acute and dietary basis, practically nontoxic to both warm-water and coldwater fish, and practically nontoxic to aquatic invertebrates.

The following studies are required because Express is to be applied by air for weed control in terrestrial food crops.

Plant Testing:

Tier II	Seed Germination/Emergence	123-1
	Vegeatative Vigor	123-1
	Aquatic Plant Growth	123-2

Fate Testing:

	Spray Drift - droplet size spectrum	201-1