








Insecticide Resistance (IRAC) Classification	Not applicable
Fungicide Resistance (FRAC) Classification	4
Physical State	Colourless crystals

Formulations:

Property 	Value
Example manufacturers of products using this active	<ul style="list-style-type: none"> • FCC Ltd • Syngenta • TrustChem
Example products using this active	<ul style="list-style-type: none"> • Recoil • Ripost • Sandofan • Wakil
Associated substances	<ul style="list-style-type: none"> • carbendazim • cymoxanil • folpet • mancozeb
UK LERAP status	No UK approval for use
Formulation and application details	-

ENVIRONMENTAL FATE




Property 	Value	Source/Quality Score/Other Information 	Interpretation 
Solubility - In water at 20°C (mg l ⁻¹)	3400	L3	High
Solubility - In organic solvents at 20°C (mg l ⁻¹)	344000	L3 - Acetone	-
	112000	L3 - Methanol	-
	50000	L3 - Ethanol	-
	17000	L3 - Xylene	-
Melting Point (°C)	104	L3	-
Boiling Point (°C)	-	-	-
Degradation point (°C)	-	-	-
Flashpoint (°C)	-	-	-
Octanol-water partition coefficient at pH 7, 20°C	P: 4.47 X 10 ⁰⁰	Calculated	-
	Log P: 0.65	L3	Low
Bulk density (g ml ⁻¹)/Specific gravity	0.5	L3	-
Dissociation constant (pKa) at	-	-	-

25°C		Note:		
Vapour pressure at 25°C (mPa)		0.0033	L3	Volatile
Henry's law constant at 25°C (Pa m ³ mol ⁻¹)		2.70 X 10 ⁻⁰⁷	L3	Non-volatile
Henry's law constant at 20°C (dimensionless)		1.11 X 10 ⁻¹⁰	Calculated	Non-volatile
Soil degradation (days) (aerobic)	DT50 (typical):	75	L3	Moderately persistent
	DT50 (lab at 20°C):	225	L3	Persistent
	DT50 (field):	75	L3	Moderately persistent
	DT90 (lab at 20°C):	-	-	-
	DT90 (field):	-	-	-
	Note:	Lab studies DT50 range 6-9 months, field studies 2-3 months		
Aqueous photolysis DT50 (days) at pH 7	Value:	Stable	Q2	Stable
	Note:	-		
Aqueous hydrolysis DT50 (days) at 20°C and pH 7	Value:	Stable	Q2	Very persistent
	Note:	-		
Water-Sediment DT50 (days)		21	Q2	Fast
Water phase only DT50 (days)		25	Q2	Slow
GUS leaching potential index 		4.58	Calculated	High leachability
SCI-GROW groundwater index (µg l ⁻¹) for a 1 kg ha ⁻¹ or 1 l ha ⁻¹ application rate 	Value:	2.49 X 10 ⁺⁰⁰	Calculated	-
	Note:	-		
Potential for particle bound transport index 		-	Calculated	Medium
Koc - Organic-carbon sorption constant (ml g ⁻¹)		36	Q4	Mobile
		pH sensitivity: Note: Literature values range 24-50 mL/g		
Freundlich isotherm	Kf:	-	-	-
	1/n:	-	-	-
	Note:	-		
Maximum UV-vis absorption L mol ⁻¹ cm ⁻¹		-	-	-

Key metabolites:

Metabolite	Formation Medium	Estimated Maximum Occurrence Fraction	91/414 Relevancy
oxadixyl acid 	Soil		

ECOTOXICOLOGY

Property 	Value	Source/Quality Score/Other Information 	Interpretation 
Bio-concentration factor	BCF: 0.8 CT50 (days): Not available	Q3 Low risk	Low potential -
Bioaccumulation potential	-	Calculated	Low
Mammals - Acute oral LD50 (mg kg ⁻¹)	1860	L3 Rat	Moderate
Mammals - Short term dietary NOEL (mg kg ⁻¹):	19.7	L3 Rat	High
(ppm diet):	250		-
Birds - Acute LD50 (mg kg ⁻¹)	2510	L3 <i>Anas platyrhynchos</i>	Low
Birds - Short term dietary (LC50/LD50)	-	-	-
Fish - Acute 96 hour LC50 (mg l ⁻¹)	300	L3 Cyprinidae	Low
Fish - Chronic 21 day NOEC (mg l ⁻¹)	-	-	-
Aquatic invertebrates - Acute 48 hour EC50 (mg l ⁻¹)	530	L3 <i>Daphnia magna</i>	Low
Aquatic invertebrates - Chronic 21 day NOEC (mg l ⁻¹)	-	-	-
Aquatic crustaceans - Acute 96 hour LC50 (mg l ⁻¹)	-	-	-
Sediment dwelling organisms - Acute 96 hour LC50 (mg l ⁻¹)	-	-	-
Sediment dwelling organisms - Chronic 28 day NOEC, static, water (mg l ⁻¹)	-	-	-
Sediment dwelling organisms - Chronic 28 day NOEC, sediment (mg kg ⁻¹)	-	-	-
Aquatic plants - Acute 7 day EC50, biomass (mg l ⁻¹)	-	-	-
Algae - Acute 72 hour EC50, growth (mg l ⁻¹)	46	L3 <i>Scenedesmus subspicatus</i>	Low

Algae - Chronic 96 hour NOEC, - growth (mg l ⁻¹)	-	-	-	-
Honeybees - Acute 48 hour LD50 (µg bee ⁻¹)	200		L3 Oral	Low
Earthworms - Acute 14 day LC50 (mg kg ⁻¹)	1000		L3	Moderate
Earthworms - Chronic 14 day NOEC, reproduction (mg kg ⁻¹)	-		-	-
Other soil macro-organisms - e.g. Collembola	LR50 / EC50 / NOEC / % Effect	-	-	-
Other arthropod (1)	LR50 g ha ⁻¹ : % Effect:	-	-	-
Other arthropod (2)	LR50 g ha ⁻¹ : % Effect:	-	-	-
Soil micro-organisms	-	-	-	-
Mesocosm study data	NOEAEC mg l ⁻¹ : NOEAEC mg l ⁻¹ :	-	-	-

HUMAN HEALTH AND PROTECTION

General:

Property 	Value	Source/Quality Score/Other Information 	Interpretation 
Mammals - Acute oral LD50 (mg kg ⁻¹)	1860	L3 Rat	Moderate
Mammals - Dermal LD50 (mg kg ⁻¹ body weight)	> 2000	L3 Rat	-
Mammals - Inhalation LC50 (mg l ⁻¹)	5.6	L3 Rat	-
ADI - Acceptable Daily Intake (mg kg ⁻¹ bw day ⁻¹)	-	-	-
ARfD - Acute Reference Dose (mg kg ⁻¹ bw day ⁻¹)	-	-	-
AOEL - Acceptable Operator Exposure Level - Systemic (mg kg ⁻¹ bw day ⁻¹)	-	-	-
Dermal penetration studies (%)	-	-	-
Dangerous Substances Directive 76/464	-	-	-

Exposure Limits	-	-	-
Exposure Routes	Public: -		
	Occupational: -		
Examples of European MRLs (mg kg ⁻¹)	Value: -		
	Note: For the EU pesticides database click here		
Drinking Water MAC (µg l ⁻¹)	-	-	-

Health issues:

	Endocrine disrupter	Reproduction / development effects	Acetyl cholinesterase inhibitor	Neurotoxicant	Respiratory tract irritant	Skin irritant	Eye irritant
	-	-	X	-	X	X	✓
General human health issues		[Possible liver toxicant]					

- ✓ : Yes, known to cause a problem
- X : No, known not to cause a problem
- ? : Possibly, status not identified
- : No data

Handling issues:

Property	Value	Source/Quality Score/Other Information	Interpretation
General	[No information available]		
EC Risk Classification	[Xn - Harmful: R22]		
EC Safety Classification	-		
WHO Classification	III	-	Slightly hazardous
US EPA Classification (formulation)	III	-	Caution - Slightly toxic
UN Number	-		
Waste disposal & packaging	-		

TRANSLATIONS

Language	Name
English	oxadixyl
French	oxadixyl
German	Oxadixyl
Danish	oxadixyl
Italian	oxadixil
Spanish	oxadixil

Greek	-
Slovenian	oksadiksil
Polish	oksadiksyl
Swedish	-
Hungarian	-
Dutch	-

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