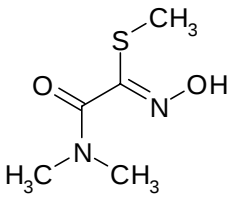
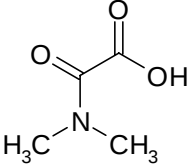
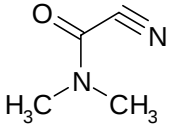
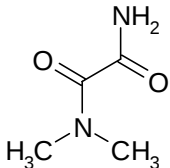


Appendix L. Degradate Summary

Table L.1. Chemical Names , Structures, and Maximum Reported Amounts of the Degradates of Oxamyl.					
Name and Structure	Maximum Percent of Applied Dose (interval)	% of applied dose at final sampling interval (study duration in days)	Reference	Study Type (OPPTS guideline)	Comments
Oxime IUPAC Name: 2-Hydroxyamino-N,N-dimethyl-2-(methylthio)acetamide. 2-Hydroxyimino-N,N-dimethyl-2-(methylthio)acetamide Methyl N',N'-dimethyl-N-hydroxy-1-thiooxamidate CAS Name: Methyl 2-(dimethylamino)-N-hydroxy-2-oxoethanimidothioate 2-(Dimethylamino)-N-hydroxy-2-oxoethanimidothioic acid, methyl ester CAS. No.: 66344-33-0 Synonyms: Oxamyl oxime, Oximino dimethyl, IN-A2213, A2213 	93% (increasing at end of study)	93% (30 d)	MRID 40606516	Hydrolysis (835.2120)	Study at pH 7
	83% (increasing at end of study)	83% (7 hr)	MRID 40606516		Study at pH 9
	75% (increasing at end of study)	75% (16 d)	MRID 40606515	Aqueous Photolysis (835.2240)	Study at pH 5
	13% (12 d)	2% (20 d)	ACC. # 147704	Soil Photolysis (835.2410)	Study at pH 6.5
	3% (7-14 d)	1% (51 d)	ACC. # 63012		Study at pH 6.4
	24% (10 d)	9% (51 d)	MRID 42820001		Study at pH 7.7
	51% (7 d)	Not detected (60 d)	MRID 45176602	Aerobic Soil Metabolism (835.4100)	Study at pH 7
	61% (28 d)	41% (42 d)	ACC. # 113366		Study pH not reported
	2% (30 d)	<1% (60 d)	MRID 41346201		Study at pH 4.6
	70% (20 d)	22% (60 d)	MRID 42820001	Anaerobic Soil Metabolism (835.4200)	Study at pH 7.7
	59% (1 d; system 1) 29% (2 d; system 2)	<1% (100 d; system 1) <1% (100 d; system 2)	MRID 45045305		System 1 at pH 6.9-8.3 System 2 at pH 6.6-7.8
	0.11 ppm (0 d; FL) 0.29 ppm (13 d; WA) 2.7 ppm (59 d; CA)	<0.02 ppm (382 d; FL) <0.02 ppm (365 d; WA) 0.43 ppm (180 d; CA)	MRID 41573201 /41963901	Terrestrial Field Dissipation (835.6100)	Maximum oxamyl concentrations were 12 ppm (0 d; FL), 5.9 ppm (7 d; WA), and 9.2 ppm (0 d; CA). Concentrations are from upper 15 cm of soil.
	0.11 ppm (30 d)	<0.01 ppm (359 d)	MRID 54045304		Maximum oxamyl concentration was 7.1 ppm (0 d). Concentrations are from upper 15 cm of soil in Mississippi.

Name and Structure	Maximum Percent of Applied Dose (interval)	% of applied dose at final sampling interval (study duration in days)	Reference	Study Type (OPPTS guideline)	Comments
DMOA IUPAC Name: N,N-Dimethyl-oxalamic acid N,N-Dimethyl-oxamic acid CAS Name: (Dimethylamino)oxoacetic acid CAS. No.: 32833-96-8 Synonyms: Dimethyloxamic acid, IN-D2708, D2708 	4% (35 d)	1% (51 d)	ACC. # 63012	Aerobic Soil Metabolism (835.4100)	Study at pH 6.4
	20% (21 d)	5% (51 d)	MRID 42820001		Study at pH 7.7
	35% (10 d)	<1% (31 d)	MRID 45176602		Study at pH 7.8
	86% (30 d)	74% (60 d)	MRID 41346201	Anaerobic Soil Metabolism (835.4200)	Study at pH 4.6
	23% (32 d)	9% (60 d)	MRID 42820001		Study at pH 7.7
	79% (30 d; system 1) 76% (30 d; system 2)	1.9% (100 d; system 1) 58% (100 d; system 2)	MRID 45045305	Aerobic Aquatic Metabolism (835.4300)	System 1 at pH 6.9-8.3 System 2 at pH 6.6-7.8
DMCF IUPAC Name: Cyano-methanoic acid dimethylamide CAS Name: Dimethylcarbonocyanidic amide 1-Cyano-N,N-dimethylformamide CAS. No.: 16703-51-8 Synonyms: Dimethylcyanoformamide, IN-N0079 	25% (7 d)	9% (20 d)	ACC. # 147704	Soil Photolysis (835.2410)	Study at pH 6.5
	17% (30 d; system 1) 55% (2 d; system 2)	<1% (100 d; system 1) <1% (100 d; system 2)	MRID 45045305	Aerobic Aquatic Metabolism (835.4300)	System 1 at pH 6.9-8.3 System 2 at pH 6.6-7.8

Name and Structure	Maximum Percent of Applied Dose (interval)	% of applied dose at final sampling interval (study duration in days)	Reference	Study Type (OPPTS guideline)	Comments
DMEA IUPAC Name: N,N-Dimethyl-oxalamide CAS Name: N,N-Dimethylethanediamide CAS. No.: 600-39-5 Synonyms: Dimethylethanediamide, IN-T2921 	10% (14 d; system 1) 14% (2 d; system 2)	<1% (100 d; system 1) <1% (100 d; system 2)	MRID 45045305	Aerobic Aquatic Metabolism (835.4300)	System 1 at pH 6.9-8.3 System 2 at pH 6.6-7.8
Carbon dioxide IUPAC Name: Carbon dioxide CAS Name: Carbon dioxide CAS. No.: 124-38-9 $O=C=O$	43% (increasing at end of study)	43% (20 d)	ACC. # 147704	Soil Photolysis (835.2410)	Study at pH 6.5
	63% (increasing at end of study)	63% (51 d)	ACC. # 63012	Aerobic Soil Metabolism (835.4100)	Study at pH 6.4
	45% (increasing at end of study)	45% (51 d)	MRID 42820001		Study at pH 7.7
	76% (increasing at end of study)	76% (31 d)	MRID 45176602		Study at pH 7.8
	3% (increasing at end of study)	3% (42 d)	ACC. # 113366	Anaerobic Soil Metabolism (835.4200)	Study pH not reported
	14% (increasing at end of study)	14% (60 d)	MRID 41346201		Study at pH 4.6
	76% (increasing at end of study)	76% (31 d)	MRID 42820001		Study at pH 7.7
	63% (increasing at end of study; system 1) 30% (increasing at end of study; system 2)	75% (100 d; system 1) 31% (100 d; system 2)	MRID 45045305	Aerobic Aquatic Metabolism (835.4300)	System 1 at pH 6.9-8.3 System 2 at pH 6.6-7.8