Ethanimidothioic acid, 2-(dimethylamino)-N-[(methylamino)carbonyl]oxy]-2-oxo-, methyl ester (cas 23135-22-0) MSDS

MSDS: Oxamimidic acid, N’,N’-dimethyl-N-{(methylcarbamoyl)oxy}-1-methylthio-

CAS: 23135-22-0

SYNONYMS:
* D-1410
* 2-(Dimethylamino)-N-((methylcarbamoyl)oxy)-2-oxoethanimidothioic acid methyl ester
* 2-Dimethylamino-1-(methylthio)glyoxal O-methylcarbamoylmonoxime
* N,N-Dimethyl-alpha-methylcarbamoyloxyimino-alpha-(methylthio)acetamide
* N’,N’-Dimethyl-N-{(methylcarbamoyl)oxy}-1-thiooxamimidic acid methyl ester
* DPX 1410
* DPX 1410L
* Du Pont 1410
* Ethanimidithioic acid, 2-(dimethylamino)-N-((methylcarbamoyl)oxy)-2-oxo-, methyl ester
* Formidic acid, 1-(dimethylcarbamoyl)-N-((methylcarbamoyl)oxy)thio-, methyl ester
* Insecticide-nematicide 1410
* Methyl 2-(dimethylamino)-N-((methylcarbamoyl)oxy)-2-oxoethanimidothioate
* Methyl 1-(dimethylcarbamoyl)-N-((methylcarbamoyl)oxy)thioformimidate
* S-Methyl 1-(dimethylcarbamoyl)-N-((methylcarbamoyl)oxy)thioformimidate
* Methyl N’,N’-dimethyl-N-((methylcarbamoyl)oxy)-1-thiooxamidate
* Oxamyl
* Thioxamyl
* Vydate
* Vydate-G
* Vydate L insecticide/nematicide
* Vydate L oxamyl insecticide/nematocide

Catalog of Chemical Suppliers, Buyers, Custom Synthesis Companies And Equipment Manufacturers
[ Oxamimidic acid,N’,N’-dimethyl-N-((methylcarbamoyl)oxy)-1-methylthio- 23135-22-0 ]
RTECS NUMBER : RP2300000
CHEMICAL NAME : Oxamimidic acid, N',N'-dimethyl-N-((methylcarbamoyl)oxy)-1-methylthio-
CAS REGISTRY NUMBER : 23135-22-0
BEILSTEIN REFERENCE NO. : 2050910
LAST UPDATED : 199807
DATA ITEMS CITED : 18
MOLECULAR FORMULA : C7-H13-N3-O3-S
MOLECULAR WEIGHT : 219.29
WISWESSER LINE NOTATION : 1N1&VYS1&UNOVM1
COMPOUND DESCRIPTOR : Agricultural Chemical
Reproductive Effector
SYNONYMS/TRADE NAMES :
* D-1410
* 2-(Dimethylamino)-N-((methylamino)carbonyl)oxy)-2-oxoethanimidothioic acid methyl ester
* 2-Dimethylamino-1-(methylthio)glyoxal O-methylcarbamoylmonoxime
* N,N-Dimethyl-alpha-methylcarbamoyloxyimino-alpha-(methylthio)acetamide
* N',N'-Dimethyl-N-((methylcarbamoyl)oxy)-1-thiooxamimidic acid methyl ester
* DPX 1410
* DPX 1410L
* Du Pont 1410
* Ethanimidothioic acid, 2-(dimethylamino)-N-((methylamino)carbonyl)oxy)-2-oxo-, methyl ester
* Formic acid, 1-(dimethylcarbamoyl)-N-((methylcarbamoyl)oxy)thio-, methyl ester
* Insecticide-nematicide 1410
* Methyl 2-(dimethylamino)-N-((methylamino)carbonyl)oxy)-2-oxoethanimidothioate
* Methyl 1-(dimethylcarbamoyl)-N-((methylcarbamoyl)oxy)thioformimidate
* S-Methyl 1-(dimethylcarbamoyl)-N-((methylcarbamoyl)oxy)thioformimidate
* Methyl N',N'-dimethyl-N-((methylcarbamoyl)oxy)-1-thiooxamimidate
* Oxamyl
* Thioxamyl
* Vydate
* Vydate-G
* Vydate L insecticide/nematicide
* Vydate L oxamyl insecticide/nematocide

*** HEALTH HAZARD DATA ***

** ACUTE TOXICITY DATA **
TYPE OF TEST            : LD50 - Lethal dose, 50 percent kill
ROUTE OF EXPOSURE       : Oral
SPECIES OBSERVED        : Rodent - rat
DOSE/DURATION           : 2500 ug/kg

TOXIC EFFECTS :
    Peripheral Nerve and Sensation - fasciculations
    Behavioral - tremor
    Biochemical - Enzyme inhibition, induction, or change in blood or tissue levels - true cholinesterase

REFERENCE :

TYPE OF TEST            : LC50 - Lethal concentration, 50 percent kill
ROUTE OF EXPOSURE       : Inhalation
SPECIES OBSERVED        : Rodent - rat
DOSE/DURATION           : 170 mg/m3/1H

TOXIC EFFECTS :
    Details of toxic effects not reported other than lethal dose value

REFERENCE :
85DPAN "Wirksubstanzen der Pflanzenschutz und Schadlingsbekämpfungsmittel,"

TYPE OF TEST            : LD50 - Lethal dose, 50 percent kill
ROUTE OF EXPOSURE       : Administration onto the skin
SPECIES OBSERVED        : Rodent - rat
DOSE/DURATION           : >2250 mg/kg

TOXIC EFFECTS :
    Sense Organs and Special Senses (Eye) - chromodacryorrhea
    Behavioral - somnolence (general depressed activity)
    Behavioral - tremor

REFERENCE :
NTIS** National Technical Information Service. (Springfield, VA 22161)
Formerly U.S. Clearinghouse for Scientific & Technical Information.
Volume(issue)/page/year: OTS0555085

TYPE OF TEST            : LD50 - Lethal dose, 50 percent kill
ROUTE OF EXPOSURE       : Intraperitoneal
SPECIES OBSERVED        : Rodent - rat
DOSE/DURATION           : 4 mg/kg

TOXIC EFFECTS :
Biochemical - Enzyme inhibition, induction, or change in blood or tissue levels - true cholinesterase

REFERENCE:

TYPE OF TEST: LD50 - Lethal dose, 50 percent kill
ROUTE OF EXPOSURE: Oral
SPECIES OBSERVED: Rodent - mouse
DOSE/DURATION: 2300 ug/kg

TOXIC EFFECTS:
Biochemical - Enzyme inhibition, induction, or change in blood or tissue levels - true cholinesterase

REFERENCE:

TYPE OF TEST: LDLo - Lowest published lethal dose
ROUTE OF EXPOSURE: Intraperitoneal
SPECIES OBSERVED: Rodent - mouse
DOSE/DURATION: 2300 ug/kg

TOXIC EFFECTS:
Biochemical - Enzyme inhibition, induction, or change in blood or tissue levels - true cholinesterase

REFERENCE:

TYPE OF TEST: LDLo - Lowest published lethal dose
ROUTE OF EXPOSURE: Oral
SPECIES OBSERVED: Mammal - dog
DOSE/DURATION: 30 mg/kg

TOXIC EFFECTS:
Biochemical - Enzyme inhibition, induction, or change in blood or tissue levels - true cholinesterase

REFERENCE:

TYPE OF TEST: LD50 - Lethal dose, 50 percent kill
ROUTE OF EXPOSURE : Administration onto the skin
SPECIES OBSERVED : Rodent - rabbit
DOSE/DURATION : 740 mg/kg
TOXIC EFFECTS :
Details of toxic effects not reported other than lethal dose value
REFERENCE :
SPEADM Special Publication of the Entomological Society of America. (4603 Calvert Rd., College Park, MD 20740) Volume(issue)/page/year: 78-1,61,1978

TYPE OF TEST : LD50 - Lethal dose, 50 percent kill
ROUTE OF EXPOSURE : Oral
SPECIES OBSERVED : Rodent - guinea pig
DOSE/DURATION : 7 mg/kg
TOXIC EFFECTS :
Biochemical - Enzyme inhibition, induction, or change in blood or tissue levels - true cholinesterase
REFERENCE :

TYPE OF TEST : LDLo - Lowest published lethal dose
ROUTE OF EXPOSURE : Intraperitoneal
SPECIES OBSERVED : Rodent - guinea pig
DOSE/DURATION : 5100 ug/kg
TOXIC EFFECTS :
Biochemical - Enzyme inhibition, induction, or change in blood or tissue levels - true cholinesterase
REFERENCE :

TYPE OF TEST : LD50 - Lethal dose, 50 percent kill
ROUTE OF EXPOSURE : Oral
SPECIES OBSERVED : Bird - quail
DOSE/DURATION : 4180 ug/kg
TOXIC EFFECTS :
Details of toxic effects not reported other than lethal dose value
REFERENCE :
TYPE OF TEST: LD50 - Lethal dose, 50 percent kill
ROUTE OF EXPOSURE: Oral
SPECIES OBSERVED: Bird - duck
DOSE/DURATION: 2600 ug/kg

TOXIC EFFECTS:
- Behavioral - altered sleep time (including change in righting reflex)
- Behavioral - somnolence (general depressed activity)
- Behavioral - irritability

REFERENCE:
ETOCDK Environmental Toxicology and Chemistry. (Pergamon Press Inc., Maxwell House, Fairview Park, Elmsford, NY 10523) V.1- 1982-
Volume(issue)/page/year: 1,157,1982

** OTHER MULTIPLE DOSE TOXICITY DATA **

TYPE OF TEST: TDLo - Lowest published toxic dose
ROUTE OF EXPOSURE: Oral
SPECIES OBSERVED: Rodent - rat
DOSE/DURATION: 540 mg/kg/90D-I

TOXIC EFFECTS:
- Nutritional and Gross Metabolic - weight loss or decreased weight gain
- Related to Chronic Data - death

REFERENCE:

** REPRODUCTIVE DATA **

TYPE OF TEST: TDLo - Lowest published toxic dose
ROUTE OF EXPOSURE: Oral
SPECIES OBSERVED: Rodent - rat
DOSE: 945 mg/kg
SEX/DURATION:
- male 12 week(s) pre-mating
- female 12 week(s) pre-mating - 3 week(s) after conception

TOXIC EFFECTS:
- Reproductive - Effects on Newborn - growth statistics (e.g.% reduced weight gain)

REFERENCE:
TYPE OF TEST : TDLo - Lowest published toxic dose
ROUTE OF EXPOSURE : Oral
SPECIES OBSERVED : Rodent - rat
DOSE : 1890 mg/kg
SEX/DURATION : multigenerations

TOXIC EFFECTS :
Reproductive - Effects on Newborn - live birth index (measured after birth)
Reproductive - Effects on Newborn - growth statistics (e.g.%, reduced weight gain)

REFERENCE :

*** U.S. STANDARDS AND REGULATIONS ***

EPA FIFRA 1988 PESTICIDE SUBJECT TO REGISTRATION OR RE-REGISTRATION

*** STATUS IN U.S. ***

On EPA IRIS database

EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, JUNE 1998

*** END OF RECORD ***