

GHS Classification

ID556

CAS 136191-64-5

Methyl 2-(4,6-dimethoxy-2-pyrimidinylloxy)-6-[1-(methoxyimino)ethyl]benzoate

Date Classified: Nov. 20, 2006 (Environmental Hazards: Mar. 31, 2006)

Physical Hazards

Reference Manual: GHS Classification Manual (Feb. 10, 2006)

Hazard class	Classification	symbol	signal word	hazard statement	Rational for the classification
1 Explosives	Not applicable	—	—	—	Containing no chemical groups with explosive properties
2 Flammable gases	Not applicable	—	—	—	Classified as "solid" according to GHS definition
3 Flammable aerosols	Not applicable	—	—	—	Not aerosol products
4 Oxidizing gases	Not applicable	—	—	—	Classified as "solid" according to GHS definition
5 Gases under pressure	Not applicable	—	—	—	Classified as "solid" according to GHS definition
6 Flammable liquids	Not applicable	—	—	—	Classified as "solid" according to GHS definition
7 Flammable solids	Classification not possible	—	—	—	No data available
8 Self-reactive substances and mixtures	Not applicable	—	—	—	Containing no chemical groups with explosive or self-reactive properties
9 Pyrophoric liquids	Not applicable	—	—	—	Classified as "solid" according to GHS definition
10 Pyrophoric solids	Not classified	—	—	—	Considered non-pyrophoric when in contact with air at ordinary temperatures; both trans- and cis- isomers are stable to heat (up to 150degC) (Agricultural Chemical Registration Data).
11 Self-heating substances and mixtures	Not classified	—	—	—	Not classified; both trans- and cis- isomers are stable to heat (up to 150degC) (Agricultural Chemical Registration Data).
12 Substances and mixtures, which in contact with water, emit flammable gases	Not applicable	—	—	—	Containing no metals or metalloids (B, Si, P, Ge, As, Se, Sn, Sb, Te, Bi, Po, At)
13 Oxidizing liquids	Not applicable	—	—	—	Classified as "solid" according to GHS definition
14 Oxidizing solids	Classification not possible	—	—	—	Cannot be classified, though being organic compounds containing oxygen bound to elements other than carbon and hydrogen
15 Organic peroxides	Not applicable	—	—	—	Organic compounds containing no "-O-O-" structure
16 Corrosive to metals	Classification not possible	—	—	—	Test methods applicable to solid substances are not available

Health Hazards

Hazard class	Classification	symbol	signal word	hazard statement	Rational for the classification
1 Acute toxicity (oral)	Not classified	—	—	—	Based on the rat LD50 (oral route) value of >5,000mg/kg (Agricultural Chemical Registration Data (1995)).
1 Acute toxicity (dermal)	Not classified	—	—	—	Based on the rat LD50 (dermal route) value of >2,000mg/kg, together with the absence of mortality at this level (Agricultural Chemical Registration Data (1995)).
1 Acute toxicity (inhalation: gas)	Not applicable	—	—	—	Due to the fact that the substance is a solid according to the GHS criteria and inhalation of its gas is not expected.
1 Acute toxicity (inhalation: dust, mist)	Not classified	—	—	—	Based on the rat LC50 (inhalation route) value of >5.5mg/L, together with the absence of mortality at this level (Agricultural Chemical Registration Data (1995)).
2 Skin corrosion / irritation	Category 3	—	Warning	Causes mild skin irritation	Based on test data from rabbit skin irritation studies (Agricultural Chemical Registration Data (1995)): "Caused mild irritation which persisted for up to 72 hours."
3 Serious eye damage / eye irritation	Category 2B	—	Warning	Causes eye irritation	Based on test data from rabbit eye irritation studies (Agricultural Chemical Registration Data (1995)): "Caused only mild irritation to the eye, which cleared up within 7 days."
4 Respiratory/skin sensitization	Respiratory sensitization: Classification not possible Skin sensitization: Category 1	(Respiratory sensitization) — (Skin sensitization) Exclamation mark	(Respiratory sensitization) — (Skin sensitization) Warning	(Respiratory sensitization) — (Skin sensitization) May cause an allergic skin reaction	Respiratory sensitization: No data available Skin sensitization: Based on positive results in guinea pig skin sensitization tests employing the Maximization method (Agricultural Chemical Registration Data (1997)).
5 Germ cell mutagenicity	Not classified	—	—	—	Based on negative data in in vitro reverse mutation tests, in vitro DNA repair tests and micronucleus tests in mice and rats (Agricultural Chemical Registration Data (1995)), though in vitro chromosome aberration tests showed positive.
6 Carcinogenicity	Not classified	—	—	—	The available carcinogenicity studies in rats and mice provide no evidence of treatment-related incidence of tumor formation, reported in Agricultural Chemical Registration Data (1995).
7 Toxic to reproduction	Not classified	—	—	—	Based on no evidence of adverse effects on reproduction or offspring development observed in rat reproduction studies and rat/rabbit teratogenicity studies (Agricultural Chemical Registration Data (1995)).

8	Specific target organs/systemic toxicity following single exposure	Category 3 (narcotic effects)	Exclamation mark	Warning	(Narcotic effects) May cause drowsiness or dizziness	Based on the evidence from animal studies including reduced locomotor activity, prone position, lacrimation, and blepharoptosis (Agricultural Chemical Registration Data (1991)).
9	Specific target organs/systemic toxicity following repeated exposure	Classification not possible	—	—	—	No symptoms or signs referable to specific target organs were observed at dose levels within the guidance value ranges for Category 2 in the available subacute toxicity studies in rats and dogs (Agricultural Chemical Registration Data (1992, 1994)).
10	Aspiration hazard	Classification not possible	—	—	—	No data available

Environmental Hazards

Hazard class	Classification	symbol	signal word	hazard statement	Rational for the classification
11 Hazardous to the aquatic environment (acute)	Category 3	-	-	Harmful to aquatic life	It was classified into Category 3 from ErC50=73.9mg/L of the algae (Green Algae) (Agricultural Chemical Registration Data, 2003).
11 Hazardous to the aquatic environment (chronic)	Category 3	-	-	Harmful to aquatic life with long lasting effects	Although acute toxicity was Category 3 and the bio-accumulation potential was low (log Kow=2.84(PHYSROP Database, 2005)), since there was no rapidly degrading (BIOWIN), it was classified into Category 3.