GHS Classification

ID389 2-chloro-N-(3-methoxy-2-thienyl)-2',6'-dimethylacetanilide

CAS 96491-05-3 Date Classified: Dec. 18, 2006 (Environmental Hazards: Mar. 31, 2006)

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

Physical Hazards

	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	–	–	–	Classification not possible due to lack of data
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	Classification not possible	–	–	–	Classification not possible due to lack of data
11	Self-heating substances and mixtures	Classification not possible	–	–	–	Test method applicable to liquid substances are not available (melting point: 74-77degC (Agricultural Chemical Registration Data (2001)), test temperature: 140degC).
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	Not applicable	–	–	–	Organic compounds containing chlorine and oxygen (but not fluorine), with the chlorine and oxygen bound to carbon and hydrogen (but not to other elements)
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 with melting point of >55degC are not available (melting point: 74-77degC (Agricultural Chemical Registration Data (2001))).

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 (1992)).
1	Acute toxicity (dermal)	Not classified	–	–	–	Based on the rat LD50 (dermal route) value of >2,000mg/kg, together with the absence of mortality (Agricultural Chemical Registration Data (1992)).
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:	Classification not possible	–	–	–	No data available
1	Acute toxicity (inhalation: dust, mist)	Not classified	–	–	–	Based on the rat LC50 (inhalation route) value of >5.7mg/L, together with the absence of mortality (Agricultural Chemical Registration Data (1922)).
2	Skin corrosion / irritation	Classification not possible	–	–	–	No data available
3	Serious eye damage / eye irritation	Classification not possible	–	–	–	No data available
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 using the Buehler method (Agricultural Chemical Registration Data (1995)).
5	Germ cell mutagenicity	Not classified	–	–	–	Based on negative data in in vitro reverse mutation tests, in vitro chromosome aberration tests and in vivo micronucleus tests on mouse bone marrow cells (Agricultural Chemical Registration Data (1992)).
6	Carcinogenicity	Not classified	–	–	–	There was no evidence of treatment-related incidence of tumor formation observed in 2-year (rats) and 18-month (mice) carcinogenicity studies (Agricultural Chemical Registration Data (1992)).
7	Toxic to reproduction	Not classified	–	–	–	In rat teratogenicity studies, a mild increase in embryonic/fetal mortality and a reduction in fetal body weights/placental weights occurred at parentally toxic doses. However, the substance is "Not classified" since it is unclear whether significant differences were present among the treated groups, together with no evidence of reproduction effects found in fertility studies (Agricultural Chemical Registration Data (1992)).
8	Specific target organs/systemic toxicity following single exposure	Classification not possible	–	–	–	Classification not possible due to the insufficiency of data.

9	Specific target organs/systemic toxicity following repeated exposure	Classification not possible	–	–	–	In the available animal studies, an increase in liver weights was observed at dose levels within the guidance value ranges for Category 2. However, there were no other toxic symptoms reported to provide additional evidence (Agricultural Chemical Registration Data (1992)).
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 1	Environment	Warning	Very toxic to aquatic life	It was classified into Category 1 from 72 hours ErC50=0.03mg/L of the algae (Green Algae) (Agricultural Chemical Registration Data, 2004).
11	Hazardous to the aquatic environment (chronic)	Category 1	Environment	Warning	Very toxic to aquatic life with long lasting effects	Although acute toxicity is Category 1 and bio-accumulation is low (log Kow=3.53(PHYSPROP Database, 2005)), since there was no rapidly degrading (BIOWIN), it was classified into Category 1.