GHS Classification

ID836 **fthalide**

CAS 27355-22-2 Date Classified: Jul. 24, 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	–	–	–	There are no chemical groups associated with explosive properties present in the molecules.
2	Flammable gases	Not applicable	–	–	–	Solid (GHS definition)
3	Flammable aerosols	Not applicable	–	–	–	Not aerosol products
4	Oxidizing gases	Not applicable	–	–	–	Solid (GHS definition)
5	Gases under pressure	Not applicable	–	–	–	Solid (GHS definition)
6	Flammable liquids	Not applicable	–	–	–	Solid (GHS definition)
7	Flammable solids	Classification not possible	–	–	–	No data available
8	Self-reactive substances and mixtures	Not applicable	–	–	–	There are no chemical groups associated with explosive or self-reactive properties present in the molecule.
9	Pyrophoric liquids	Not applicable	–	–	–	Solid (GHS definition)
10	Pyrophoric solids	Classification not possible	–	–	–	No data available
11	Self-heating substances and mixtures	Classification not possible	–	–	–	No data available
12	Substances and mixtures, which in contact with water, emit flammable gases	Not applicable	–	–	–	The chemical structure of the substance does not contain metals or metaloids(B, Si, P, Ge, As, Se, Sn, Sb, Te, Bi, Po, At).
13	Oxidizing liquids	Not applicable	–	–	–	Solid (GHS definition)
14	Oxidizing solids	Not applicable	–	–	–	Organic compounds containing oxygen and chlorine (but not fluorine) and these elements are chemically bonded only to carbon and hydrogen (but not to other elements).
15	Organic peroxides	Not applicable	–	–	–	Containing no -0-0- structure
16	Corrosive to metals	Classification not possible	–	–	–	Liquid at a test temperature, 55degC. 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	–	–	–	SPECIES: Rat ENDPOINT: LD50 VALUE: > 10000 mg/kg REFERENCE SOURCE: Agricultural Chemicals abstracts
1	Acute toxicity (dermal)	Not classified	–	–	–	Based on rat LD50 value: >10000mg/kg (Agricultural-Chemicals abstracts), it was set as the outside of Category.
1	Acute toxicity (inhalation: gas)	Not applicable	–	–	–	Solid (GHS definition)
1	Acute toxicity (inhalation: vapour)	Classification not possible	–	–	–	No data available
1	Acute toxicity (inhalation: dust, mist)	Classification not possible	–	–	–	Rat LC50 (4 hours) value is >4.1mg/L (Agricultural-Chemicals abstracts). But the category could not be specified only by this data, it cannot be classified since data is insufficient.
2	Skin corrosion / irritation	Not classified	–	–	–	Since a skin reaction was not admitted in the skin irritation test using a rabbit (Agricultural-Chemicals abstracts), it was carried out the outside of Category.
3	Serious eye damage / eye irritation	Not classified	–	–	–	In the eye irritation tests using a rabbit, the change in the eyes that is applicable to the acceptance criteria of irritation was not acknowledged (Agricultural-Chemicals abstracts). So it was set as the outside of Category.
4	Respiratory/skin sensitization	Respiratory sensitization: Classification not possible; Skin sensitization: Not	–	–	–	Respiratory organ: No data. Skin: We classified it as Out Of Category since positive rates was 0% also in both of Maximization test and Buehler test (Source: Agrichemical Abstracts) with the guinea pigs.
5	Germ cell mutagenicity	Not classified	–	–	–	There was a negative result in the micronucleus test which used the mouse marrow, an in vivo mutagenicity test using somatic cells (Agricultural-Chemicals abstracts). So it was classified as out of Category.
6	Carcinogenicity	Not classified	–	–	–	It was considered as the out of Category. Since although either institutions did not classified about carcinogenicity, the carcinogenicity was not observed in mixed feed medication test in long term using rat (Agricultural-Chemicals abstracts).
7	Toxic to reproduction	Not classified	–	–	–	It was considered as outside of Category since in the fecundity and the teratogenicity study (maximum dose of 10000 ppm) of the rat feeding administration test, and in the rabbit teratogenicity study (maximum dose of 1000mg/kg), reproductive toxicity was not observed (all are agricultural-chemicals abstracts).

8	Specific target organs/systemic toxicity following single exposure	Not classified	–	–	–	In oral administration tests using rats, mice and dogs, and inhalation exposure and dermal administration tests using rats, since the toxic effect with serious dose exceeding the guidance value range of Category 2 did not have private seals (Agricultural-Chemical abstracts), it was set as the outside of Category.
9	Specific target organs/systemic toxicity following repeated exposure	Not classified	–	–	–	Since major toxicity was not observed with the dose which exceeds the guidance value range of Category 2 in the oral study using rats, mice and dogs, either (Agricultural Chemicals abstracts), it was set to out of Category.
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-hour EC50<=0.5mg/L of algae (Green algae) (Agricultural Chemical Registration Data, 2001).
11	Hazardous to the aquatic environment (chronic)	Category 1	Environment	Warning	Very toxic to aquatic life with long lasting effects	Classified into Category 1, since acute toxicity was Category 1, supposed not rapidly degrading (BIOWIN), though supposed less bioaccumulative (log Kow=3.2(PHYSPROP Database, 2005)).