GHS Classification

ID1188 **pyraclofos**

CAS 89784-60-1 Date Classified: Oct. 23, 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	Classification not possible	–	–	–	Classification not possible due to lack of data, though the substance contains nitrogen atoms adjacent to each other as chemical groups with explosive properties present and has the oxygen balance calculated at −168.5, higher than −200 of the criteria.
2	Flammable gases	Not applicable	–	–	–	Liquid (GHS definition)
3	Flammable aerosols	Not applicable	–	–	–	Not aerosol products
4	Oxidizing gases	Not applicable	–	–	–	Liquid (GHS definition)
5	Gases under pressure	Not applicable	–	–	–	Liquid (GHS definition)
6	Flammable liquids	Classification not possible	–	–	–	No data available
7	Flammable solids	Not applicable	–	–	–	Liquid (GHS definition)
8	Self-reactive substances and mixtures	Classification not possible	–	–	–	Classification not possible due to lack of data, though the substance contains nitrogen atoms adjacent to each other and P−O bonds as chemical groups with explosive or self−reactive properties present
9	Pyrophoric liquids	Classification not possible	–	–	–	No data available
10	Pyrophoric solids	Not applicable	–	–	–	Liquid (GHS definition)
11	Self-heating substances and mixtures	Classification not possible	–	–	–	Test methods applicable to liquid substances are not available
12	Substances and mixtures, which in contact with water, emit flammable gases	Classification not possible	–	–	–	No data available
13	Oxidizing liquids	Classification not possible	–	–	–	No data available
14	Oxidizing solids	Not applicable	–	–	–	Liquid (GHS definition)
15	Organic peroxides	Not applicable	–	–	–	Organic compounds containing no −0−0− structure
16	Corrosive to metals	Classification not possible	–	–	–	No data available

Health Hazards

Hazard class		Classification	symbol	signal word	hazard statement	Rational for the classification
1	Acute toxicity (oral)	Category 3	Skull and crossbones	Danger	Toxic if swallowed	SPECIES: Rat ENDPOINT: LD50 VALUE: 237 mg/kg REFERENCE SOURCE: Agricultural Chemical Registration Data
1	Acute toxicity (dermal)	Not classified	–	–	–	It was set as the outside of Category based on rat LD50 >2000mg/kg and that (Agricultural Chemical Registration Data) death is not observed at less than 2000mg/kg.
1	Acute toxicity (inhalation: gas)	Not applicable	–	–	–	Liquid (GHS definition)
1	Acute toxicity (inhalation: vapour)	Classification not possible	–	–	–	No data available
1	Acute toxicity (inhalation: dust, mist)	Category 4	Exclamation mark	Warning	Harmful if inhaled	It was set as category 4 based on rat LC50 = 1.46mg/L (Agricultural Chemical Registration Data) of 4−hour exposure.
2	Skin corrosion / irritation	Not classified	–	–	–	It carried out the outside of Category based on the statement that an irritant effect was not admitted in the skin irritation test using rabbits (Agricultural Chemical Registration Data).
3	Serious eye damage / eye irritation	Not classified	–	–	–	Based on the description that irritative changes were not observed in the eye irritation tests using rabbit (Agricultural Chemical Registration Data), it was set as the out of the Category.
4	Respiratory/skin sensitization	Respiratory sensitization: Classification not possible; Skin sensitization: Not classified	(Respiratory sensitization)−; (Skin sensitization)−	(Respiratory sensitization)−; (Skin sensitization)−	(Respiratory sensitization)−; (Skin sensitization)−	Respiratory sensitization: no data available. Skin sensitization: by the skin sensitivity test using a guinea pig, it carried out the outside of Category based on the statement (Agricultural Chemical Registration Data) that sensitizing was not acknowledged.
5	Germ cell mutagenicity	Not classified	–	–	–	There are no result of human multi generation epidemiology, multi generation mutagenicity test, and germ cell in vivo mutagenicity test, and there is the description that it is negative in the somatic cell in vivo mutagenicity test (mouse small core test) (Agricultural Chemical Registration Data (un−submitting)). So it is classified as the out of the Category.

6	Carcinogenicity	Not classified	–	–	–	In the examination of rat and mouse, based on the description that generating of treatment-related increased tumor was not observed in each examination (Agricultural Chemical Registration Data), it was out of the Category.
7	Toxic to reproduction	Not classified	–	–	–	Based on the statement that the reproductive function, reproductive potential, and the mischief on a child's generating were not acknowledged in the two-generation reproductive examination using rats and the medication examination during the pregnancy using rats and rabbits (Agricultural Chemical Registration Data). So it was set as the outside of Category.
8	Specific target organs/systemic toxicity following single exposure	Category 1 (nervous system)	Health hazard	Danger	Cause damage to organs (nervous system)	It was considered as Category 1 (nerve systems) based on the descrption (Agricultural Chemical Registration Data) that diminished spontaneous activity, gait abnormality, diarrhea, salivation, tremor, lacrimation, ocular proptosis, and breathing abnormality were observed in the oral administration examination using rats and mice and the inhalation examination using rats at the dose within the range of guidance value in Category 1 (oral: 137-231mg/kg, Inhalation: 0.51-0.66 mg/L).
9	Specific target organs/systemic toxicity following repeated exposure	Classification not possible	–	–	–	In the feeding oral administration tests for three months using rats, mice and dogs, inhibition of plasma, hemocyte, and brain cholinesterase activity, and the decrease of erythrocyte numbers, hemoglobin concentration, and a hematocrit value was observed in exposure of the guidance value range (more than 0.55 mg/kg) of Category 1, although there is a statement that there was no associated symptom (Agricultural Chemical Registration Data), but since there is no data in other given doses, it cannot classify.
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 48-hour EC50=0.0032mg/L of Crustacea (Daphnia magna) (Agricultural Chemical Registration Data, 1992).
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 less bioaccumulative (log Kow=3.79 (Agricultural Chemical Registration Data)), though rapid degradability is unknown.