GHS Classification

ID1138 **alanycarb**

CAS 83130-01-2 Date Classified: Sep. 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	Classification not possible	–	–	–	Classification not possible due to lack of data, though the substance contains N–O bonds as chemical groups with explosive properties present and has the oxygen balance calculated at –186.2, higher than –200 of the criteria.
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	Classification not possible	–	–	–	Classification not possible due to lack of data, though the substance contains N–O bonds as chemical groups with explosive or self–reactive properties present
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	–	–	–	The test suitable for the solid with a melting point of 140 degC or less has not been established. (melting points: 46.6 – 47 degC)
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	Classification not possible	–	–	–	Classification not possible due to lack of data, though containing oxygen bonded to nitrogen.
15	Organic peroxides	Not applicable	–	–	–	Organic compounds containing no –O–O– structure
16	Corrosive to metals	Classification not possible	–	–	–	No data available (Melting point: 46.6–47degC)

Health Hazards

	Hazard class	Classification	symbol	signal word	hazard statement	Rational for the classification
1	Acute toxicity (oral)	Category 4	Exclamation mark	Warning	Harmful if swallowed	We compared the LD50 values for male and female rats in Oral Toxicity tests, and based on the lower value of these groups, LD50=397mg/kg (Agricultural Chemical Registration Data), we classified the substance as Category 4.
1	Acute toxicity (dermal)	Not classified	–	–	–	Based on rat LD50 >2000mg/kg of the dermal toxicity tests (no death case) (Agricultural Chemical Registration Data), 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	–	–	–	Death was not seen in 0.205mg/L by the inhalation toxicity studies using rats. But LC50 value was not acquired (Agricultural Chemical Registration Data). Therefore, it cannot be classified.
2	Skin corrosion / irritation	Not classified	–	–	–	It was carried out the outside of category based on the primary skin irritation test using a rabbit, in which the irritation was admitted in neither of the animals, and the primary irritation index (P. I.I.) has also been 0 (Agricultural Chemical Registration Data) .
3	Serious eye damage / eye irritation	Not classified	–	–	–	In the eye primary irritation study using the rabbit, it made out of Category based on the result that severe damage/ eye irritation are not acquired during observation time (Agricultural Chemical Registration Data).
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: based on the statement (Agricultural Chemical Registration Data) with negativity by the skin sensitization study using a guinea pig, it carried out the outside of Category.
5	Germ cell mutagenicity	Not classified	–	–	–	There is no data of human administration cost epidemiology, an administration cost mutagenicity test, and productive cell in vivo mutagenicity test. And the statement (Agricultural Chemical Registration Data) with negativity by two somatic cell in vivo mutagenicity tests (the in vivo chromosomal aberration test using rat myeloid cells, and the micronucleus test which uses mouse red corpuscles). So it carried out the outside of Category.
6	Carcinogenicity	Not classified	–	–	–	Since in carcinogenicity test using mouse treatment–related increased tumor was not observed (Agricultural Chemical Registration Data), it was out of Category.

7	Toxic to reproduction	Not classified	–	–	–	In oral administration study using rats and rabbits, mischief of reproductive performance and freproductive potential against parental animals were not seen, and that fetustoxic and the teratogenicity to child animals are not acknowledged (Agricultural-chemicals applications for registration). So it carried out the outside of Category.
8	Specific target organs/systemic toxicity following single exposure	Category 1 (systemic toxicity, nervous system)	Health hazard	Danger	Cause damage to organs (systemic toxicity, nervous system)	It was considered as Category 1 (systemicity, nervous system) based on the description (Agricultural Chemical Registration Data) that in oral administration and inhalation (dust) administration of a rat, at the dosage (200mg/kg, 0.2mg/L) within the range of guidance value in Category 1, diminished spontaneous activity, red effluents from eyes and nasal, ataxie, behavior inhibiting, weakness, salivation, tremor, the round back, and eyeballs protrusion etc., were observed.
9	Specific target organs/systemic toxicity following repeated exposure	Category 2 (systemic toxicity, nervous system)	Health hazard	Warning	May cause damage to organs (systemic toxicity, nervous system) through prolonged or repeated exposure	It was classified into Category 2 (systemic, nervous system) based on the description that in the examination of a rat, by the dosage (11.4 mg/kg and 38.9 mg/kg) within the range of guidance value of Category 2 , the influence on decreased weight gain, and hematologic values, and decrease of erythrocyte cholinesterase activity were observed (Agricultural Chemical Registration Data).
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=0.05mg/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 not rapidly degrading (BIOWIN), though supposed less bioaccumulative (log Kow=3.43(PHYSPROP Database, 2005)).