

GHS Classification

ID1134

mecarbam

CAS 2595-54-2

Date Classified: Aug. 22, 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	-	-	-	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	Not applicable	-	-	-	There are no chemical groups associated with explosive or self-reactive properties present in the molecule.
9 Pyrophoric liquids	Not classified	-	-	-	Uses are agricultural chemicals, and even if it contacts the normal temperature air, it does not ignite spontaneously.
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	Not classified	-	-	-	Stable to water (the water solubility is obtained)
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 -O-O- 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 2	Skull and crossbones	Danger	Fatal if swallowed	Of the LD50 values 31-33mg/kg in male rats and 23-53mg/kg in female rats in Priority 1 (JMPR524(1980)), we adopted the higher toxicity value (LD50 = 23mg/kg) and classified the substance as Category 2.
1 Acute toxicity (dermal)	Category 3	Skull and crossbones	Danger	Toxic in contact with skin	It was set as Category 3 based on rabbit LD50 = 229mg/kg (JMPR524 (1980)).
1 Acute toxicity (inhalation: gas)	Not applicable	-	-	-	Liquid (GHS definition)
1 Acute toxicity (inhalation: vapour)	Category 2	Skull and crossbones	Danger	Fatal if inhaled	It was classified as Category 2 based on LC50 = 0.9mg/L. This value obtained by converting LC50 value (0.7mg/L) (indicated in JMPR524 (1980)) for 4 hours. In addition, since the saturated concentration of this product by calculation is 1713ppm (equivalent: 2.31* 10 ⁻⁷ mg/L), it was presumed that the inhalation experiment was conducted in the state of steam.
1 Acute toxicity (inhalation: dust, mist)	Classification not possible	-	-	-	No data available
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: Classification not possible	(Respiratory sensitization)-; (Skin sensitization)-	(Respiratory sensitization)-; (Skin sensitization)-	(Respiratory sensitization)-; (Skin sensitization)-	No data available
5 Germ cell mutagenicity	Not classified	-	-	-	Since it was negative in the mouse bone marrow micronucleus tests (JMPR634 (1983)), it carried out the outside of Category according to the guideline.
6 Carcinogenicity	Not classified	-	-	-	In Priority 1, since there is a report that the this product does not show carcinogenic to rat (JMPR524 (1980)), it was out of the Category. In addition, there is no carcinogenicity tests data in mouse.

7	Toxic to reproduction	Classification not possible	-	-	-	In the information on Priority 1, using rat, although reproductive and developmental toxicity are not acknowledged in the dose (2mg/kg) in which the general toxicity in parental animals do not appear (affected to reproductive potential in 50mg/kg (near LD50 value)), performing not a suitable dose setup. So it is thought that data is insufficient for a classification and it cannot classify .
8	Specific target organs/systemic toxicity following single exposure	Category 2 (nervous system)	Health hazard	Warning	May cause damage to organs (nervous system)	Since there was description which affects the human nervous systems (late neurotoxicity, polyneuropathy) (HSDB (2003)) in Priority 2, it was considered as Category 2 (nervous systems).
9	Specific target organs/systemic toxicity following repeated exposure	Not classified	-	-	-	Since in the animal experiments (a maximum of two years), the tremor (feeding administration) or irritation of the respiratory tracts (inhalation administration) was observed only with high doses, and effect was not observed within the range of guidance value, it was considered as the outside 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)	Classification not possible	-	-	-	Insufficient data available.
11 Hazardous to the aquatic environment (chronic)	Classification not possible	-	-	-	Classification not possible due to lack of data