

GHS Classification

ID1362

Methasulfocarb

CAS 66952-49-6

Date Classified: Nov. 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	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	Not classified	-	-	-	Non-pyrophoric when in contact with air at a room temperature and used as agricultural chemicals.
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 metalloids(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	-	-	-	No data available
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 are not 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	Based on the rat oral LD50 = 112mg/kg and 95mg/kg (Agricultural Chemical Registration Data), we selected the value indicating the higher toxicity (LD50 = 95mg/kg) to classify the substance as Category 3.
1 Acute toxicity (dermal)	Not classified	-	-	-	Considering rat dermal LD50 >5000mg/kg (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	-	-	-	LC50 showed 0.436mg/L or more in the test using a 10% dusting powders (Agricultural Chemical Registration Data). But the category cannot be specified. Therefore, it cannot be classified since the data is insufficient.
2 Skin corrosion / irritation	Not classified	-	-	-	Since irritation was not admitted in primary skin of rabbits irritation test (examination for agricultural-chemicals applications for registration), it carried out the outside of Category.
3 Serious eye damage / eye irritation	Category 2A	Exclamation mark	Warning	Causes serious eye irritation	In the eye primary irritation examination in a rabbit, blue haze, dacryorrhea and conjunctivitis, corrosive change of conjunctiva and nictitating membrane are seen (it recovered in long period of time for non-eye washing requirements, a degree was light and it recovered in ten days for eye washing requirements). And ocular mucosa irritations was positive (Agricultural Chemical Registration Data). So it was set as Category 2A.
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	Classification not possible	-	-	-	It was negative at the Ames test of in vitro mutagenicity test, and it was positive in chromosome aberration test (Agricultural Chemical Registration Data), but there is no result of in vivo test. So it cannot be classified according to technical guidelines.
6 Carcinogenicity	Classification not possible	-	-	-	Carcinogenic was not acknowledged in the carcinogenic test (small-scale 78-week preliminary exam) in rat (Agricultural Chemical Registration Data). So it was presupposed that data is insufficient and it cannot be classified.
7 Toxic to reproduction	Classification not possible	-	-	-	Although no effect was observed in the teratogenicity study using rats and rabbits (Agricultural Chemical Registration Data), assessment on the reproductive potential is unknown, so it cannot be classified due to insufficient data.

8	Specific target organs/systemic toxicity following single exposure	Category 1 (nervous system)	Health hazard	Danger	Cause damage to organs (nervous system)	In the oral administration test using a rat, the influence such as tremor, convulsion, and salivation on the nervous system were observed, and spasmodic gait was observed in the inhalation test using 10% of dust formulation (all are Agricultural Chemical Registration Data). Since each of these views was observed at the dose which is equivalent to Category 1 in a guidance value, they were considered as Category 1 (nerve systems).
9	Specific target organs/systemic toxicity following repeated exposure	Classification not possible	-	-	-	Slight influences in blood and urine were only observed at the highest dosage (10mg/kg/day) in a 13-week repeated oral administration test using a rat (Agricultural Chemical Registration Data), and it could not be classified due to insufficient 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)	Classification not possible	-	-	-	Insufficient data available.
11 Hazardous to the aquatic environment (chronic)	Classification not possible	-	-	-	Classification not possible due to lack of data