

GHS Classification

ID1289

levamisole hydrochloride

CAS 16595-80-5

Date Classified: Jan. 23, 2007 (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	Not classified	-	-	-	The all substance data for Poisonous and Violent Substances Control Law MSDS (Chemical Daily, 2001) states about the disposal of free body of this product (Levamisole, CAS No.6649-23-6) as "incinerate with inflammable solvent in an incinerator with afterburner and scrubber". It was considered to be flame retardant and was classified as out of Category.
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	-	-	-	The uses are for anthelmintic agents for animals and agricultural chemicals (pine tree-drying inhibitors), and even if it contacts the normal temperature air, it does not ignite spontaneously.
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 oral LD50 = 180mg/kg in rats (RTECS(1997)), the substance was classified as Category 3. [Note] This substance is the chloride salt of (S)-2,3,5,6-Tetrahydro-6-phenylimidazo [2,1-b] thiazole (ID1288, CAS: 6649-23-6). Also refer to ID 1288 for the health hazards.
1 Acute toxicity (dermal)	Classification not possible	-	-	-	No data available
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	-	-	-	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	Classification not possible	-	-	-	No data. In addition, (S)-2,3,5,6-tetra hydro- 6-phenylimidazo [2,1-b] thiazole (ID 1288, CAS: 6649-23-6) is considered as the out of the Category because of the result of the negativity of mouse dominant fatality test and mouse test (JECFA697 (1990)).

6	Carcinogenicity	Classification not possible	-	-	-	No data available
7	Toxic to reproduction	Classification not possible	-	-	-	In studies using rats or rabbits, although lowered rates of implantation and survival rate have been observed (Catalog of teratogenic agents (2004), RTECS (1997)), it cannot be classified due to insufficient data. In addition, (S)-2,3,5,6-tetrahydro-6-phenylimidazo[2,1-b]thiazole (ID 1288, CAS: 6649-23-6) is comprehensively set as "out of category" although there are some effect on generation in several studies.
8	Specific target organs/systemic toxicity following single exposure	Classification not possible	-	-	-	Insufficient data available.
9	Specific target organs/systemic toxicity following repeated exposure	Category 1 (blood)	Health hazard	Danger	causes damage to organs (blood) through prolonged or repeated	Since the effect on blood is observed in the rat or the dog in repeated administration of this product (RTECS (1997)), and that is observed on the human of (S)-2,3,5,6-tetrahydro-6-phenylimidazo[2,1-b]thiazole(ID1288, CAS: 6649-23-6) among the document of Priority 2, it was classified into Category 1 (blood).
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