# GHS Classification

## ID933 Methane, bromochloro-

**CAS 74-97-5** Date Classified: May 24, 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 | Not classified | - | - | - | Non-combustible (ICSC(J), 2003; etc.). |
| 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 | - | - | - | Non-combustible (ICSC (J), 2003; etc.) |
| 10 | Pyrophoric solids | Not applicable | - | - | - | Liquid (GHS definition) |
| 11 | Self-heating substances and mixtures | Not classified | - | - | - | Non-combustible (ICSC(J) (2003); etc) |
| 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 | - | - | - | Organic compounds containing chlorine (but not oxygen and fluorine) chemically bonded only to carbon and hydrogen (but not to other elements). |
| 14 | Oxidizing solids | Not applicable | - | - | - | Liquid (GHS definition) |
| 15 | Organic peroxides | Not applicable | - | - | - | Containing no -0-0- structure |
| 16 | Corrosive to metals | Classification not possible | - | - | - | Although there is information that it corrodes many metals (ICSC(J) (2003), other), there is no data based on set test methods. |

**Health Hazards**

| Hazard class | | Classification | symbol | signal word | hazard statement | Rational for the classification |
|---|---|---|---|---|---|---|
| 1 | Acute toxicity (oral) | Category 5 | - | Warning | May be harmful if swallowed | It was classified as category 5, since both data of Priority 1 and data of Rat are category 5. This is based on the following values: Mouse LD50 value = 4300mg/kg (ACGIH ,7th (2001)), Rat LD50 value = 5000mg/kg (RTECS (2005) and HSDB (2005)). |
| 1 | Acute toxicity (dermal) | Not classified | - | - | - | Based on rat LD50 value: >20000mg/kg (RTECS, 2005), it was set as the outside of Category. |
| 1 | Acute toxicity (inhalation: gas) | Not applicable | - | - | - | Liquid (GHS definition) |
| 1 | Acute toxicity (inhalation: vapour) | Not classified | - | - | - | Based on description that death was not observed in rat 7-hour exposure (4-hour equivalent 34.93mg/L) to 5000ppm (ACGIH (7th, 2001)), assuming 34.93mg/L (converted with the conversion factor to about 6600ppm) as the steam with almost no mist from vapor pressure. It was classified as out of Category by the ppm concentration standard. |
| 1 | Acute toxicity (inhalation: dust, mist) | Classification not possible | - | - | - | No data available |
| 2 | Skin corrosion / irritation | Category 2 | Exclamation mark | Warning | Causes skin irritation | It was set as Category 2 from description that burned and degeneration were admitted in the skin irritation test using the rabbit (HSDB (2005)). |
| 3 | Serious eye damage / eye irritation | Classification not possible | - | - | - | Insufficient data available. |
| 4 | Respiratory/skin sensitization | Respiratory sensitization: Classification not possible; Skin sensitization: Classification not possible | - | - | - | No data available |
| 5 | Germ cell mutagenicity | Classification not possible | - | - | - | Classification not possible due to lack of data |
| 6 | Carcinogenicity | Not classified | - | - | - | Since it was classified into D in EPA (IRIS, 2005), it was considered as the outside of Category. |
| 7 | Toxic to reproduction | Classification not possible | - | - | - | No data available |

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|---|---|---|---|---|---|---|
| 8 | Specific target organs/systemic toxicity following single exposure | Category 3 (narcotic effects) | Exclamation mark | Warning | May cause respiratory irritation or may cause drowsiness and dizziness (narcotic effects) | Because of descriptions in PATTY (4th, 1994) and ACGIH (7th, 2001) referring to confirmation of anesthetic actions in accidental exposure to human and inhalation exposure tests using rats, it was judged as Category 3 (anesthetic actions). |
| 9 | Specific target organs/systemic toxicity following repeated exposure | Classification not possible | – | – | – | Although we have description that significant toxicities is not observed with the dose which exceeds the guidance value range of Category 2 in the repeated inhalation exposure test using the rat (ACGIH (7th, 2001) and PATTY (4th, 1994)), both of the examination are before 1966, and the number of animals tested are unknown and it is not sufficient data to judge to be Out Of Category, and we presuppose that we can not classify it. |
| 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 |