

GHS Classification

ID549

CAS 84-69-5

Physical Hazards

Diisobutyl phthalate

Date Classified: Sep. 20, 2006 (Environmental Hazards: Mar. 31, 2006)

Reference Manual: GHS Classification Manual (Feb. 10, 2006)

| Hazard class | Classification | symbol | signal word | hazard statement | Rational for the classification |
|---|-----------------------------|--------|-------------|------------------|---|
| 1 Explosives | Not applicable | — | — | — | Containing no chemical groups with explosive properties |
| 2 Flammable gases | Not applicable | — | — | — | Classified as "liquid" according to GHS definition |
| 3 Flammable aerosols | Not applicable | — | — | — | Not aerosol products |
| 4 Oxidizing gases | Not applicable | — | — | — | Classified as "liquid" according to GHS definition |
| 5 Gases under pressure | Not applicable | — | — | — | Classified as "liquid" according to GHS definition |
| 6 Flammable liquids | Not classified | — | — | — | The flash point is 185degC (ICSC (2001)) |
| 7 Flammable solids | Not applicable | — | — | — | Classified as "liquid" according to GHS definition |
| 8 Self-reactive substances and mixtures | Not applicable | — | — | — | Containing no chemical groups with explosive or self-reactive properties |
| 9 Pyrophoric liquids | Not classified | — | — | — | Not pyrophoric when in contact with air at ordinary temperatures (flash point: 400degC (ICSC, 2001)) |
| 10 Pyrophoric solids | Not applicable | — | — | — | Classified as "liquid" according to 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 applicable | — | — | — | Containing no metals or metalloids (B, Si, P, Ge, As, Se, Sn, Sb, Te, Bi, Po, At) |
| 13 Oxidizing liquids | Not applicable | — | — | — | Organic compounds containing oxygen (but not fluorine and chlorine), with the oxygen bound to carbon and hydrogen (but not to other elements) |
| 14 Oxidizing solids | Not applicable | — | — | — | Classified as "liquid" according to 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) | Not classified | — | — | — | Based on the rat LD50 (oral route) value of ca.10,400mg/kg representing the lower of the two testing data, ca.10,400mg/kg (IUCLID (2000)) and 15,000mg/kg (RTECS (2006)). |
| 1 Acute toxicity (dermal) | Not classified | — | — | — | Based on the guinea pig LD50 (dermal route) value of 10,000mg/kg (RTECS (2006)). |
| 1 Acute toxicity (inhalation: gas) | Not applicable | — | — | — | Due to the fact that the substance is "liquid" according to the GHS definition and inhalation of its gas is not expected. |
| 1 Acute toxicity (inhalation: dust, mist) | Classification not possible | — | — | — | No data available |
| 1 Acute toxicity (inhalation: dust, mist) | Classification not possible | — | — | — | No data available |
| 2 Skin corrosion / irritation | Not classified | — | — | — | Based on the description in the report on rabbit skin irritation tests performed in accordance with OECD Test Guideline 404 (IUCLID (2000)): "Not irritating." |
| 3 Serious eye damage / eye irritation | Not classified | — | — | — | Based on the description in the report on rabbit eye irritation tests performed in accordance with OECD Test Guideline 405 (IUCLID (2000)): "Not irritating." |
| 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) — | Respiratory sensitization: No data available Skin sensitization: No data available |
| 5 Germ cell mutagenicity | Classification not possible | — | — | — | Classification not possible due to lack of data on in vivo tests. |
| 6 Carcinogenicity | Classification not possible | — | — | — | No data available |
| 7 Toxic to reproduction | Classification not possible | — | — | — | Insufficient data available. |
| 8 Specific target organs/systemic toxicity following single exposure | Category 3 (narcotic effects, respiratory tract irritation) | Exclamation mark | Warning | (Respiratory tract irritation) May cause respiratory irritation (Narcotic effects) May cause drowsiness or dizziness | Based on the evidence from animal studies including "coma, respiratory tract irritation" (RTECS, (2006)). |
| 9 Specific target organs/systemic toxicity following repeated exposure | Classification not possible | — | — | — | Insufficient data available |
| 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 96 hours LC50=0.9mg/L of the fish (Fathead Minnows) (ECETOC TR91, 2003). |
| 11 Hazardous to the aquatic environment (chronic) | Category 1 | Environment | Warning | Very toxic to aquatic life with long lasting effects | Although acute toxicity was Category 1 and there was rapidly degrading (the decomposition by BOD: 98%(Existing Chemical Safety Inspections Data)), since there was bio-accumulation (log Kow=4.11 (PHYSPROP Database (2005))), it was classified into Category 1. |