

## GHS Classification

**ID994**

**2-Propanol, 1-(2-methoxypropoxy)- ; Dipropylene Glycol Methyl Ether**

**CAS 13429-07-7, 3451**

Date Classified: Jul. 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	Category 4	-	Warning	Combustible liquid	Flash point: >60degC and <=93degC
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	-	-	-	Flash point: 270degC (ICSC (J), 1999)
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 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	-	-	-	Organic compounds containing oxygen (but not chlorine 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 -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	-	-	-	Not classified because of SPECIES: Rat; ENDPOINT: LD50; VALUE: :5350mg/kg (ACGIH 7th, 2001), 5400mg/kg (SIDS, 2001), 5100mg/kg (ACGIH 7th, 2001), 5180mg/kg (ACGIH 7th, 2001; PATTY 4th, 1994; SIDS, 2001)
1 Acute toxicity (dermal)	Not classified	-	-	-	Based on rabbit LD50 values: 9500mg/kg (ACGIH 7 th2001, SIDS2001), 13000 - 14000 mg/kg (DFGOT vol. 6, 1994, SIDS, 2001), 10100mg/kg (DFGOT vol. 6, 1994, SIDS, 2001), >19000mg/kg (SIDS, 2001), it was set as the outside of Category.
1 Acute toxicity (inhalation: gas)	Not applicable	-	-	-	Liquid (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	Not classified	-	-	-	From description that irritation was not admitted in the test applied to the skin of the rabbit (ACGIH (7th, 2001) and SIDS (2001)), and from description that irritation was not admitted in the test applied to the skin of the humans (ACGIH (7th, 2001), DFGOT (vol.6, 1994), PATTY (4th, 1994) and SIDS (2001)), it was carried out the outside of Category.
3 Serious eye damage / eye irritation	Category 2B	-	Warning	Causes eye irritation	We classified it as Category 2B based on the description that mild corneal irritation was acknowledged in the test applied to the eyes of the rabbits (ACGIH (7th, 2001)).
4 Respiratory/skin sensitization	respiratory sensitization: Classification not possible; Skin sensitization: Classification not possible	-	-	-	Respiratory organ: No data. Skin : Although there was description that sensitizing property was not acknowledged in the patch test for 250 examples in ACGIH (7th, 2001), DFGOT (vol.6, 1994), PATTY (4th, 1994), and SIDS (2001), we have no animal test data and there was also no description which negates sensitizing property clearly, therefore we presupposed that it is considered lack of data and could not classify it to be Out Of Category.
5 Germ cell mutagenicity	Classification not possible	-	-	-	Classification not possible due to lack of data
6 Carcinogenicity	Classification not possible	-	-	-	No data available

7	Toxic to reproduction	Classification not possible	-	-	-	There is a description in PATTY (4th, 1994) and SIDS (2001) that reproductive toxicity was not observed in the inhalation exposure test using pregnant rats and rabbits. However, since these examinations are carried out by the dose in which general toxicity is not observed in parental animals, the data was not enough evidence to classify it as outside of classification. Therefore, since the data is insufficient, it cannot be classified.
8	Specific target organs/systemic toxicity following single exposure	Category 3 (respiratory tract irritation, narcotic effects)	Exclamation mark	Warning	may cause respiratory irritation or may cause drowsiness and dizziness (respiratory tract irritation, narcotic effects)	The substance was classified as Category 3 (airway irritant, anesthetic properties) based on the reports that anaesthetic properties were observed in percutaneous administration tests using rabbits and oral and inhalation administration tests using rats, and airway irritation in human exposure cases (ACGIH (7th, 2001), DFGOT (vol.6, 1994), PATTY (4th, 1994) and SIDS (2001)).
9	Specific target organs/systemic toxicity following repeated exposure	Not classified	-	-	-	We classified it as Out Of Category based on the description that the serious toxic effect was not observed in inhalation exposure, oral administration, or a dermal administration test using rats, rabbit, or mouse with the dose which exceeds the guidance value range of Category 2 (ACGIH (7th, 2001), DFGOT (vol.6, 1994), PATTY (4th, 1994) and SIDS (2001)).
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)	Not classified	-	-	-	It carried out the outside of Category from 48-hour LC50=1919mg/L of Crustacea (Daphnia magna) (SIDS, 2004).
11 Hazardous to the aquatic environment (chronic)	Not classified	-	-	-	Since not water-insoluble (miscible with water (SIDS, 2004)) and acute toxicity is low.