

## GHS Classification

**ID1014**

**Rosin**

**CAS 8050-09-7**

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	Classification not possible	-	-	-	Neither constituents nor structures are identified.
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	Classification not possible	-	-	-	Neither constituents nor structures are identified.
9 Pyrophoric liquids	Not applicable	-	-	-	Solid (GHS definition)
10 Pyrophoric solids	Not classified	-	-	-	It is judged that there is no potential of igniting without fire source at room temperature from the information that the flash point is 187 degC (ICSC (J), (2004)).
11 Self-heating substances and mixtures	Classification not possible	-	-	-	Test methods applicable to liquid or solid substances at 140degC are not available.
12 Substances and mixtures, which in contact with water, emit flammable gases	Classification not possible	-	-	-	Neither constituents nor structures are identified.
13 Oxidizing liquids	Not applicable	-	-	-	Solid (GHS definition)
14 Oxidizing solids	Classification not possible	-	-	-	Neither constituents nor structures are identified.
15 Organic peroxides	Classification not possible	-	-	-	Neither constituents nor structures are identified.
16 Corrosive to metals	Classification not possible	-	-	-	Liquid at a test temperature, 55degC. 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)	Not classified	-	-	-	Rat LD50 value: 7800mg/kg, 8400mg/kg and 7600mg/kg (IUCLID, 2000). Based on the data above, it was classified as out of category.
1 Acute toxicity (dermal)	Category 5	-	Warning	May be harmful in contact with skin	Based on rabbit LD50 value: 2500mg/kg ( from about 2500mg/kg and >2500mg/kg (IUCLID, 2000)), it was set as Category 5.
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)	Category 4	Exclamation mark	Warning	Harmful if inhaled	Based on rat LC50 (6 hours) value: about 1.5mg/L (4 hour equivalent: about 2.3mg/L) (IUCLID, 2000).it was set as Category 4.
2 Skin corrosion / irritation	Category 3	-	Warning	Causes mild skin irritation	It was set as Category 3 from description that it was mild irritation in the skin irritation test using the rat (IUCLID (2000)).
3 Serious eye damage / eye irritation	Category 2B	-	Warning	Causes eye irritation	We classified it as Category 2B based on the description that it had a mild irritant property in the eye irritation tests using the rats (IUCLID (2000)).
4 Respiratory/skin sensitization	Respiratory sensitization: Category1; Skin sensitization: Category1	(Respiratory sensitization)Health hazard; (Skin sensitization)Exclamation mark	(Respiratory sensitization)Danger; (Skin sensitization)Warning	(Respiratory sensitization)May cause allergy or asthma symptoms or breathing difficulties if inhaled; (Skin sensitization)May cause allergic skin reaction	Respiratory tracts: Since it was listed as a chemical material which causes sensitivity at the Japanese Society of Occupational allergy, we categorized it to be Category 1 (The Japanese Society of occupational allergy meeting magazines 2004). In addition, it is classified as the class 1 (JSFOH advice, 2005) of the respiratory sensitizing substance in Japan Society for Occupational Health. Derma: In the Japanese Society for Contact Dermatitis, Rosin (Rosin <- Colophony) is classified as the cutaneous sensitizing substance (the Japanese Society for Contact Dermatitis HP and 2006), and it is classified as SEN in ACGIH (ACGIH 7th, 2006) as class 1 of the cutaneous sensitizing substances in Japan Society for Occupational Health (JSFOH advice, 2005), and as Sh in DFG(MAK/BAT, 2004). Since there was a case report of allergic contact dermatitis in ACGIH (7th, 2001) and DFGOT (vol.11, 1998), we classified it as Category 1.
5 Germ cell mutagenicity	Classification not possible	-	-	-	No data available

6	Carcinogenicity	Classification not possible	-	-	-	No data available
7	Toxic to reproduction	Classification not possible	-	-	-	No data available
8	Specific target organs/systemic toxicity following single exposure	Classification not possible	-	-	-	No data available.
9	Specific target organs/systemic toxicity following repeated exposure	Classification not possible	-	-	-	Classification not possible due to lack of 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)	Category 2	-	-	Toxic to aquatic life	It was classified into Category 2 from 48-hour EC50=4.5mg/L of Crustacea (Daphnia magna) (IUCRID, 2000).
11 Hazardous to the aquatic environment (chronic)	Category 2	Environment	-	Toxic to aquatic life with long lasting effects	Classified into Category 2, since acute toxicity was Category 2, not rapidly degrading (BOD: 36-48% (IUCRID, 2000)), and bioaccumulation potential is unknown.