



## Material Safety Data Sheet (MSDS) 化學品安全技術說明書

### 1. Identification of the substance and of the Company

Chemical Chinese name: 金菊花至尊牆面漆

Chemical English name: Golden Flower Supreme Wall Finish

Company name: The China Paint Mfg. Co., (Shenzhen) Ltd.

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Effective Date: Nov 12<sup>st</sup> 2011

Emergency telephone No.: 119

Technology No.: Golden Flower Wall Paint -01/2011

Mainly used in: Decoration of interior concrete surfaces

Restriction: Only can be used in interior decoration

### 2. Hazards identification

GHS category: Not applicable.

GHS label: Not applicable.

Dangerous Description: Not applicable.

Invade way: Swallowing and skin contact.

Healthy effect: Swallowing is dangerous.

Environment hazard: Base on existing information that it is environment-friendly.

Fire risk: Nonflammable.

### 3. Composition/information on ingredients

Pure

mixture

Chemical name: Golden Flower Wall Paint

Harmful ingredients



Chemical Name	Wt %	CAS No.
Propylene Glycol	< 0.5%	57-55-6
Isothiazolin-ketone	< 0.01%	55965-84-9
2,2,4-trimethyl pentanediol isobutyrate alone	< 0.5%	25265-77-4

#### 4. First aid measure

Skin contact: Take off the polluted clothes. Wash with soap and water. Send for the doctor if necessary.

Eyes contact: Flush open eyes with clean water for at least 15 minutes and consult a doctor if needed.

Inhalation: Move patient from contaminated area to fresh air. If the patients have difficulty in breathing, conduct artificial respiration or ask for medical help.

Swallowing: If swallow it accidentally, go to the hospital rightly; keep calm, don't stimulate vomiting.

#### 5. Fire-fighting measure

Danger character: The paint is nonflammable, but combustion of the dry film could release harmful components.

Harmful combustion waste: Smog, sometimes allied with carbon monoxide, carbon dioxide.

Extinguisher: Foam, carbon dioxide, dry powder, 1211extinguisher and sand.

Caution: Not applicable.

#### 6. Accidental release measures

Release measures: This product is nonflammable. Absorb the waste with sand, mud or silica etc. then send it to local waste landfill. Clean the contaminated field with water.

Extinguish method: Transit to the local environmental incineration field.



## 7. Handling and storage

Handling attention: Keep in good ventilation. Close the container tightly. Keep away from heat, ignition sources. No smoking or diet in the workplace. Avoid contact with skin or eyes. Process strictly according with the safety introduction. For personal protection, see Part 8.

Storage attention: Store in cool, dry, ventilated place with desired temperature. Keep away from heat, ignition sources or sun radiation. Keep the covers sealed. The can should not be placed upside down. Adequate absorb materials should be placed in the warehouse. Separate from oxidants, food chemicals. The warehouse should have good illumination and anti-static systems.

## 8. Exposure control/personal protection

The maximum permitted concentration: Isothiazolin-ketone MAK(Germany): 0.05 mg/m<sup>3</sup>

Test method: Gas Chromatograph.

Engineering control: Enhance ventilating.

Respiratory protection: Wear respiratory apparatus. Filtered fume mask is recommended when the concentration level in the air is exceeded. Wear self-supporting respiratory apparatus during emergency rescue or evacuation.

Eyes protection: Wear goggles. Avoid water splashing.

Body protection: Wear cotton or artificial cotton clothes.

Hands protection: Wear impermeable gloves.

Other safeguard: No smoking, drinking or diet in the workshop. Do not drink wine before working, take a bath after working. Take pre-employment and periodic medical examinations.

## 9. Physical and chemical properties

Appearance: Opaque liquid

Odor: Slightly

PH value: 8.0-9.0



Melting point (°C): No data

Boiling point (°C): 100°C

Flash point: No data

Explosion upper limit %( V/V): No data

Explosion lower limit %( V/V): No data

Vapor pressure: No data

Relative vapor density (air=1): No data

Relative density: 1.30-1.55

Solubility: miscible with water

N-octanol/water partition coefficient: No data

Self-ignition temperature: No data

Decomposition temperature: No data

## 10. Stability and reactivity

Stability: Very steady under normal store and operate conditions.

Substances to be avoided: Oxidant, strong acid and alkali.

Condition to be avoided: High temperature and fire.

Polymerization hazards: No polymerization occurs.

Decomposition products: Release black smoke, carbon monoxide, carbon dioxide and nitrogen oxides in combustion.

## 11. Toxicological information

Acute toxicity: No data.

Skin irritation: Long time contact may irritate skin slightly, sometimes can even cause dermatitis.

Eyes irritation: Splashing into eyes may cause slight irritation.

Breathing irritation: Excessive inhalation of vapor may cause irritation.

Germline mutations: No data.



Carcinogenicity: No data.

Reproductive toxicity: No data.

Specific target organ systemic toxicity-Single exposure: No data.

Specific target organ systemic toxicity-Repeated exposure: No data.

Inhalation risk: Excessive inhalation of vapor in short-term may cause discomfort.

## 12. Ecological information

Ecology toxicity: No data. It shouldn't be poured into gully drain according to the relative legislation of environment protection. The solo use of high concentration isothiazolin-ketoon may be toxic to the water creatures and cause profound destruction.

Biodegradability: No data.

Latent bioaccumulation: No data.

Migration in soils: No data.

## 13. Disposal considerations

Disposal character: Unharmful liquid.

Dispose method: Avoid pouring into the sewer, send to the specific landfill.

Disposal attention: The storage or disposal of the waste should refer to the national and local environmental regulations.

## 14. Transport information

UN code: No data.

UN transportation name: No data.

UN chanciness category: No data.

Packing category: III

Packing method: Inner lining can

Regulated as Marine pollutant: No



Transportation attention: Load and unload carefully, avoid package damage. Avoid from heat, ignition sources. Transport during morning or night in summer. Transport according to the regulated routes.

## 15. Regulatory information

National regulations:

Regulation on the Safety Management of Hazardous Chemicals(2011)

GB/T 16483-2008: "Safety data sheet for chemical products -Content and order of sections";

GB20581-2006: "Safety rules for classification precautionary labelling and precautionary statements of chemicals - Flammable liquids";

HJ/T154-2004: "The guidelines for the hazard evaluation of new chemical substances";

Law of the People's Republic of China on the Prevention and Control of Environmental Pollution by Solid Waste;

GB13690-2009: "General rule for classification and hazard communication of chemicals";

GB15603-1995: "Rule for storage of chemical dangers";

TJ36-79: "Sanitary standard for the design of industrial enterprise";

GB6514-2008: "Safety code for painting--Safety, ventilation and air clean-up for painting process";

GB7691-2003: "Safety code for painting--Safety management general rule";

GB12463-2009: "General specifications for transport packages of dangerous goods";

"Code of practice for selection of personal protective equipments";

GB/T11651-2008: "Code of practice for selection of personal protective equipments";

Issued by Ministry of Health, P.R. China: [2001] No. 255 "interior coating Hygienic Practice";

GB/T18582-2008: "Indoor decorating and refurbishing materials - Limit of harmful substances of interior architectural coatings";

Chapter: 295A (Hongkong): "Dangerous Goods (Application and Exemption)Regulations";

DSR (Hongkong): "A Guide to the Factories and Industrial Undertakings (Dangerous Substances) Regulations";



International regulations:

“United Nations’ proposals on the transportation of dangerous chemical goods”

## 16. Other information

Reference:

1. “Chemicals toxicological regulations and environmental data handbook”, written by the National Environmental Agency’s toxic chemicals management office, and the Beijing Chemical Research Institute. Chinese Environmental Science Press 1992.
2. “Dangerous chemicals safety technology manual”, by Zhou Kuo-tai. Chemical Industry Press 1997.
3. “International Chemical Safety Cards (ICSCs)”. Chemical Industry Press 1995.
4. “Solvents Guide”. Chemical Industry Press 1994.

Date: Nov 9<sup>st</sup> 2011

Dept.: R&D Group

Check Dept.: R&D

Revise introduction: Revision according to GB/T 16483-2008.

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