



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

Material Safety Data Sheet - MSDS

1. Identification of the substance and of the Company

Chemical Chinese name: 菊花牌膠玉磁漆#1100 類

Chemical English name: Flower Synthetic Enamel #1100 Series

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

Address: Ya Bian Industrial Zone, Huan Zhen Road, Shajing, Baoan, Shenzhen, PRC

Postal Code: 518104

Email: rndr@chinapaint.com.cn

Company telephone: 0755-33658888

Fax: (86) (0755) – 33665958

Company urgent telephone No.: 8008305712

Effective Date: November 1, 2011

Emergency telephone No.: 119

Technology No.: 1100-02/2011

Mainly used: The steel, zinc-iron surface of indoor or outdoor

Limited use: Only can be used in mainly used.

2. Hazards brief introduction

Dangerous category: Category 3.3, flammable liquid



GHS label:

Name of GHS label: Warning

Label Description: flammable liquid and steam



Invade way: Inhalation, swallowing and skin contact

Health hazard: It has lead compounds and organic solvent. Contact with this product is harmful to human body. Vapor will irritate eyes and mucous membrane. Inhalation will cause dizziness, headache, and excitement symptoms. Inhalation of high concentrated vapor will cause acute poisoning.

Environment hazard: It is harmful to the environment, especially pay high attention to water pollution.

Explosion hazard: The vapor of this product will easily form explosive mixture with air, which is flammable when comes across fire and high temperature.

3. Composition/information on ingredients

Pure mixture

Chemical name: Alkyd resin paint

Harmful ingredients:

Chemical Name	Wt %	CAS No.
200# solvent	<10%	64742-82-1
2-Butanone oxime	0.1~0.2%	96-29-7

4. First aid measure

Skin contact: Take off the polluted clothes. Wash with soap and water.

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

Inhalation: Move patient from contaminated area to fresh air and keep the breath freely. Give oxygen input if feeling hard to breathe. Use respiratory apparatus and heart massage if breathing has stopped, consult doctor.

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



5. Fire-fighting measure

Dangerous characteristics: The vapor will easily form explosive mixture with air, which is flammable when comes across fire and high temperature.

Dangerous flammable product: Burning will bring smog, carbon monoxide, and carbon dioxide.

Put out fire: Rescue with foam, carbon dioxide, dry powder, 1211 fire extinguisher and sand.

6. Release measures

Release handling: For common release, cut off sources of fire. Ensure good ventilation. Use sand to absorb, and then send to the disposal area appointed by the environmental department. The polluted area can be cleaned by soap or scour, and the polluted water must be directed to the disposal sewage. For heavy release, cut off any fire source and call the police. Under the condition of confirmed safety, try to cut off the release headstream in order to avoid inflow to the sewage. Evacuate people from polluted place to safe area and forbid unrelated person from entering. Wear self-support respiratory apparatus and protective clothing. Confine the area under the condition of confirmed safety, then collect, transfer, return or handle as according to specific rules.

7. Handling and storage

Handling attention: Increase ventilation. Operator should be trained professionally to abide to the safe operation procedures strictly. Operator should wear protective face mask, chemical safety glasses, anti-static clothing, protective shoes, and protective gloves or skin protection membrane. Keep away from fire and high temperature. Forbid smoking. Use explosion proof ventilation system. Fit with corresponding types and numbers of fire fighting equipment and release measure equipment.

Storage attention: Store up in cool, shady and ventilated warehouse. Keep away from fire and high temperature. Pay high attention to store up separately from oxidizing agents and edible chemical goods. Adopt explosion proof illuminations and ventilation system. Forbid the use of machinery equipment and tools which generate spark. Fit with suitable containing materials in the warehouse.

Warehouse should have static charge grounded equipment.



8. Exposure control/personal protection

The maximum permitted concentration: Oil solvent oil: 575mg/m³, Painting mist: 10mg/m³.

Inspection method: Test the concentration of the dangerous gases in the air with Gas Chromatograph.

Engineering control: Increase ventilation and avoid spray.

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 safety protective glasses.

Body protection: Wear anti-static clothing, and proper working shoes.

Hand protection: Wear protective gloves or skin protection membrane.

Others safeguard: Forbid smoking, eating and drinking at locale. Do not drink alcoholic drinks before work. Take shower and change clothes after work. Have body check up before obtaining employment and then regularly.

9. Physical and chemical properties

Appearance and character: liquid

Odor: Pungent

PH Value: No data

Vapor pressure: No data

Reaction temperature : No data

Self-ignition temperature: No data

Melting point: No data

Relative density: 1.1~1.8

Boiling point: No data

Flash point (°C): 35°C

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

Ignition temperature: No data

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

Relative vapor density (air=1): No data

Solubility: Giraffe Mineral Turpentine

10. Stability and reactivity

Stability: Stable



Substances to be avoided: Oxidant, strong acid and alkali

Condition to be avoided: High temperature and fire

Polymerization hazard: Cannot occur

Decomposition: Carbon monoxide and carbon dioxide.

11. Toxicological information

Acute toxicity: No data

Skin Irritation: Repeated exposure may result of xeroderma or dermatitis.

Eye Irritation: Vapor will irritate eyes.

Respiratory tract Irritation: Vapor will irritate respiratory tract.

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 causes headache, dizziness and nausea.

12. Ecological information

Ecological toxicity: No data

Biodegradability: No data

Latent bioaccumulation: No data

Migration in soils: No data

13. Disposal considerations

Disposal character: Dangerous garbage

Disposal method: Avoid pouring into the sewer. Send to the disposal area as appointed by the environmental protection agency to be imbedded or to be treated with controlled burning method.

Disposal attention: The storage of waste as well as the disposal of waste should be referred to the



national and local district environmental regulations.

14. Transport information

UN No.: 1263

UN shipping name: Paint

Dangerous goods category: Flammable liquid

IMDG Code: No data

ADR category: Category 3, Flammable liquid

Packaging label: Flammable liquid

Packaging category: III

Packaging method: Tinplate 1L、4L、20L

Marine pollutant: Yes

Transportation attention: Packaging and unloading should be carried out gently during transportation so as to avoid damage to the packaging and the container. In the summertime, it should be transported in the early morning and night so as to avoid the sunlight. Transport route should be conformed to related regulation.

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";

GB 20581-2006 : "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. ";

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";

GB/T11651-2008: "Selection rules of articles for labour protection use";

GB18581-2009: "Indoor decorating and refurbishing materials--Limit of harmful substances of solvent coatings for woodenware";

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."

Hong Kong regulations: <<2009 air pollution control (volatile organic compounds) regulation>>.

Product Type: Extreme high-gloss coatings for metal.

Regulated Product Codes: P10-03.

VOC.: $\leq 420\text{g/L}$.

16. Other information

Literature for 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 manuel", 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.

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Dept.: R&D Group

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