



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: 菊花牌特佳易保漆/ 催硬劑 3200HK 類/ 327HK

Chemical English name: Flowerpoxy Enamel/ Hardener 3200HK Series/ 327HK

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

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Technical specification code: 3200HK-001

Effective Date: 2009 Dec 1

Emergency telephone No.: 119

2. Composition/information on ingredients

Chemical name: 2K Epoxy Coating

Harmful ingredients:

Chemical Name	Wt %	CAS No.
xylene	5-15%	1330-20-7
isobutylalcohol	1-5%	78-83-2
cyclohexanone	1-10%	108-94-1
PMA	5-15%	108-65-6

3. Hazards brief introduction

Dangerous category: Category 3.3, flammable liquid

Invasion pathway: 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 highly 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.

4. First aid measure

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

Eye contact: Rinse out at least 15 minutes with large amount of water or brine, and consult doctor.

Inhalation: Move out quickly to breathe 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: Consult doctor at once.

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: Xylene: 100mg/m³; oil solvent oil: 575mg/m³; Paint dust: 10 mg/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: It has lead compounds. 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

pH: No data

Melting point: No data

Relative density: 0.9-1.4

Boiling point: No data

Relative vapour density (air=1): No data

Saturation vapor tension (kPa): No data

Burning(kJ/mol): No data

Octyl-alcohol /water distribute quotiety: No data

Flash point(°C): 17°C

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

Ignition temperature: No data

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

Solubility: Giraffe Mineral Turpentine

Main use: The steel, zinc-iron surface of indoor and outdoor.

10. Stability and reactivity

Stability: Stable

Substances to be avoided: Strong Oxidizing Agents

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

Irritation: No data

12. Ecological information

Ecological toxicity: No data

Biodegradability: No data

Non-biodegradability: No data

13. Disposal considerations

Disposal character: Dangerous garbage

Disposal method: 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

Dangerous goods No.: No data

UN No.: No data

Packaging label: Flammable liquid

Packaging category: III

Packaging method: Tinplate

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 :

The state department has announced the “Dangerous chemical goods safety management regulations” on 1987 February 17th, with specific concerns over the regulations of safety production, handling, storage, transportation, and loading/unloading. Relevant standards are:

GB13690-1992: “Classification and labels of dangerous chemical substances commonly used”;

GB15603-1995: “Rule for storage of chemical dangers”;

TJ36-1979: “Sanitary standard for the design of industrial enterprise”;

GB6514-1995: “Safety code for painting--Safety, ventilation and air clean-up for painting process”;

GB7691-1987: “Safety code for painting--Safety management general rule”;

GB12463-1990: “General specifications for transport packages of dangerous goods”;

GB/T11651-1989: “Selection rules of articles for labour protection use”;

GB18581-2001: “Indoor decorating and refurbishing materials--Limit of harmful substances of solvent coatings for woodenware”;

GB6944-1986: “Classification of dangerous goods

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: : ≤420g/L (Mixing Ratio by Volume : Paint : Thinner#99-000128 = 10 : 3.5) °

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 manual”, by Zhou Kuo-tai. Chemical Industry Press 1997.