

MATERIAL SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME :HARDENER

Manufacturer / Supplier Identification:

- Manufacturer/ Supplier: Wengyuan Henghui Chemical Coating Co.,Ltd.

Address: No. A-06, A3 Road, Huacai Chemical Coating, Industrial Transfer Park, Wengcheng Town, Wengyuan, Shaoguan,China.

Zip code: 512627

Tel: 0086-751-2616938 / 2616899

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For emergencies, call: 0086-751-2616938

For emergencies (abroad), call: (0532) 83889090; (0532) 83889191

Product Recommendations and Restricted Uses: Made into coatings for the protection and decorative coating of bamboo, wood or metal surfaces. Please refer to the product label or manual for construction methods and fields of use.

SECTION 2 HAZARDS IDENTIFICATION

GHS classification: flammable liquid (Category 2), skin corrosion / irritation (Category 2), severe eye injury / eye irritation (Category 2), Skin sensitizers (Category 1); Specific opposite target organ toxicity - one exposure (category 3, respiratory irritation, anesthetic effects); Hazards to aquatic environment - acute hazards (Category 3); Hazards to the aquatic environment - long-term hazards (Category 3).

GHS hazard statement:

H225 highly flammable liquid and vapor;

H315 causes skin irritation;

H317 may cause skin allergic reactions.

H319 caused severe eye irritation;

H335 may cause respiratory tract irritation;

H336 may cause drowsiness or dizziness;

H412 is harmful to aquatic plants and has a long-term lasting effect;

GHS label signal word: Danger.

GHS label pictogram:



【Precaution】

P210 Keep away from heat sources, hot surfaces, sparks, open flames, and other sources of ignition. No smoking;

P233 Keep container tightly closed.

P240 Containers and loading equipment are grounded and equipotential bonding.

P241 Use explosion-proof [electrical/ventilation/lighting] equipment.

P242 Use spark-less tools.

P243 Take action to prevent electrostatic discharge.



P261 Avoid inhaling dust/smoke/gas/aerosol/vapor/spray.
P264+P265 Wash hands thoroughly after work.Do not touch eyes.
P271 Can only be used outdoors or in well-ventilated areas.
P272 Contaminated work clothes are not allowed to be taken out of the workplace.
P273 Avoid release into the environment,
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

【Incident Response】

P303+P361+P364+P353 If skin (or hair)is contaminated: Immediately remove all contaminated clothing, wash it before reuse, and wash the affected area with water [or shower].
P304+P340 In case of accidental inhalation: Transfer the person to fresh air and maintain a comfortable breathing position.
P305+P351+P338 If entering eyes: Rinse carefully with water for a few minutes. If contact lenses are worn and can be easily removed, remove them. Keep rinsing.
P319 If you feel unwell, please seek medical attention.
P321 Specialized treatment (see additional first aid instructions on this label).
P333+P317 If skin irritation occurs: Seek medical attention.
P337+P317 If eye irritation persists: Get medical advice,
P370+P378 In case of fire, use dry powder, foam or carbon dioxide to extinguish the fire.

【Safe Storage】

P403+P233+P235 Store in a well-ventilated place. Keep container tightly closed. Keep the temperature low.
P405 Storage areas must be locked.

【Disposal】

P501 Refer to relevant national/local regulations for disposal of contents containers.

SECTION3 COMPOSITION/ INFORMATION ON INGREDIENTS

Composition /Information on ingredients:
Chemical properties of formulation: mixture.



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Harmful ingredients:	CAS No.	Weight %
Ether acetate	141-78-6	20
N-Butyl acetate	123-86-4	25
Xylene	1330-20-7	17
Polyisocyanate	28182-81-2	38

SECTION4 FIRST AID MEASURES

- Skin contact: take off contaminated clothes and wash skin thoroughly with soapy water and clear water.
- Eye contact: immediately open the upper and lower eyelids, rinse with flowing water or normal saline for at least 15 minutes, and seek medical advice.
- Inhalation: quickly leave the scene to fresh air. See a doctor if necessary.
- Ingestion: drink enough warm water, induce vomiting and seek medical treatment.

SECTION5 FIRE FIGHTING MEASURES

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- Hazard characteristics: flammable, can cause combustion and explosion in case of open fire and high heat. In case of high heat, the internal pressure of the packaging container will increase, and there is a risk of cracking and explosion.
- Harmful combustion products: CO, CO₂
- Extinguishing methods and extinguishing agents: foam, carbon dioxide, dry powder and sand can be saved.
- Fire fighting precautions: water fire fighting is invalid.

SECTION6 LEAKAGE EMERGENCY TREATMENT

Emergency treatment: cut off the fire source. Quickly evacuate the personnel from the contaminated area to a safe area, cut off the pollution source as far as possible, and prevent them from entering the sewer.

Elimination method: the leaked liquid is recovered to the closed container and transported to the waste treatment site for treatment, and the residual liquid on site is absorbed and cleaned up with sand and other inert materials.

SECTION7 HANDLING AND STORAGE

Operation precautions: closed operation, strengthen ventilation. Operators must be specially trained and strictly abide by the operating procedures. Wear protective equipment. Keep away from fire, heat source and workplace. Use explosion proof ventilation system and equipment. When handling, it should be loaded and unloaded lightly to prevent damage to the packaging container.

Storage precautions: store in a cool and ventilated warehouse. Keep away from fire and heat source and keep container sealed. Explosion proof lighting and ventilation facilities shall be adopted, and corresponding varieties and quantities of fire-fighting equipment shall be provided.

SECTION 8 EXPOSURE CONTROL / PERSONAL PROTECTION

Maximum allowable concentration: China (tj36-79) mg / m³



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N-Butyl acetate:300

Ether acetate:300

Xylene:300

Polyisocyanate:50

Monitoring method: gas chromatography

Engineering control: the production process is closed and ventilation is strengthened.

Respiratory system protection: keep good ventilation in the workplace, and wear qualified masks or face masks during construction.

Eye protection: avoid eye contact and wear goggles when necessary.

Body protection: wear suitable work clothes and pay attention to protect the exposed skin.

Hand protection: wear proper gloves during operation to avoid direct contact.

Appearance and character: transparent or yellowish liquid with pungent smell.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Flashpoint (°C): 13

Natural temperature (°C): 333

Solubility: not miscible with water, soluble in organic solvents.

Relative density (kg / L): 0.9-1.0

Viscosity (Ku value 30 °C): 35 ± 5

Explosion limit% (V / V): upper limit: 6.8- 11.8

Explosion limit% (V / V): lower limit: 1.2-2.1

Main application: used for diluting all kinds of automotive repair paint.

SECTION 10 STABILITY AND REACTIVITY

Stability: stable.

Incompatibility: strong oxidant.

Avoid contact conditions: open fire, high heat.

Polymerization hazard: cannot occur.

Decomposition products: CO, CO₂.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute poisoning: mild headache, dizziness, nausea; severe coma can occur.

Chronic poisoning: the main symptoms of neurasthenia, defatted, dry, chapped skin damage.

Irritation: it has certain irritation to skin, mucous membrane and respiratory system.

SECTION 12 ECOLOGICAL INFORMATION

So far, there is no relevant information available.

SECTION 13 WASTE DISPOSAL

Nature of waste: hazardous waste

Waste disposal method: centralized recovery and controlled incineration.

SECTION 14 TRANSPORTATION INFORMATION

Proper shipping name: Paint related material

Transportation information



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Dangerous goods No.: GB3.3-32198

Main hazard: Class 3 hazardous substances - flammable liquids

UN No.: un1263

Official transportation Name: coating related materials

Package category: Class II

Package mark: flammable liquid

Packing method: tins or buckets

Precautions for transportation: during transportation, the product shall be protected from rain and sunlight, and shall comply with relevant regulations of transportation department

SECTION 15 REGULATORY INFORMATION

Regulatory information: Regulations on the safety management of hazardous chemicals (order of the State Council, No. 344, effective from March 15, 2002).

Classification and marking of common dangerous chemicals (GB 13690-1992).

SECTION 16 OTHER INFORMATION

Reference: special issue on safety production of hazardous chemicals, China Labor and social security press, August 2002.

Emergency Response Manual for hazardous chemicals, China personnel press, October 2002.

Solvent manual (3rd Edition) (Chemical Industry Press, November 2002)

Handbook of coatings industry (Chemical Industry Press, September 2001)

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