

Product Name: 2-Ethylanthraquinone

Revision Date: 20 Feb 2019

SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT

Product Name: 2-Ethylanthraquinone

molecular formula: C₁₆H₁₂O₂

relative molecular weight: 236.27

CAS No: 84-51-5

Appearance: White powder

Purity: 98.0%

COMPANY IDENTIFICATION

Country	Supplier (company name / address / phone)	24 Hour Environmental / Health Emergency Telephone Number
China (mainland)	Wuhan ZeShanCheng Biomedical Technology Co., Ltd. address: No. 399, lihua road, dongxihu district wuhan city	(+86) 13100607399 (+86) 027-51477051



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SECTION 2 HAZARDS IDENTIFICATION

Risk category: not classified

invasion route: Inhalation, ingestion.

Health hazard: Toxicity was not reported but was lower than that of anthraquinone. Effects of anthraquinone on human health: headache, weakness, irritation to exposed skin and eyes. Eczema, rhinitis and bronchial asthma have been reported. Production of anthraquinone dye semi-finished products, after the sun exposure, in the face, neck, wrist and forearm light dermatitis, obvious congestion, edema, nodules, blisters and so on. Generally the better.

environment hazards: not classified

Combustion hazard: combustible

SECTION 3 EMERGENCY TREATMENT

Skin contact: remove contaminated clothing immediately. Wash with plenty of soapy water. If skin irritation or rash develops, seek medical advice.

Eye contact: lift eyelid immediately, rinse thoroughly with plenty of flowing water or normal saline. If uncomfortable, seek medical advice.

Suction: quickly leave the site to the fresh air. Keep the airway open. Oxygen is given when breathing is difficult. If breathing and cardiac arrest, artificial respiration and cardiac massage should be performed immediately. Go to a doctor.

Ingestion: drink water, take raw egg white and milk orally. Seek medical advice if you feel unwell



SECTION 4 FIRE PROTECTION

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Dangerous characteristics: Flammable in case of open fire and high heat.

Harmful combustion products: carbon monoxide, carbon dioxide.

Extinguishing method: water mist, carbon dioxide, dry powder, foam fire extinguisher.

Fire extinguishing precautions and measures: firefighters should wear gas masks and put out the fire from a safe distance upwind. Move the container from the fire to an open area if possible. Spray water to keep the fire container cool until the end of the fire.

SECTION 5 LEAKAGE EMERGENCY TREATMENT

Emergency action: isolate the leakage pollution area, set up warning signs around it, and suggest emergency personnel to wear masks and corresponding work clothes. Do not directly contact with the leakage, to avoid dust, carefully swept up, placed in the bag transferred to a safe place. Such as a large number of leakage, collection and recycling or harmless disposal after waste.

SECTION 6 HANDING AND STORAGE

Operation attention: airtight operation, strengthen ventilation. Operators must be specially trained and strictly follow the operating procedures. It is recommended that operators wear self-suction filter gas mask (half mask), chemical safety glasses, polyethylene gas suit and butylene rubber gloves. Keep away from fire, heat and workplace. Avoid contact with strong oxidants. Handle with care to prevent damage of packing and container. Equipped with the corresponding varieties and quantities of fire equipment and leakage emergency treatment equipment

Storage precautions: store in a cool, dry and well-ventilated warehouse. Keep away from fire and heat. Should be stored separately from the strong oxidant, do not mix storage. The storage area shall be provided with emergency leakage treatment equipment and suitable storage materials.

SECTION 7 CONTACT CONTROL/PERSONAL PROTECTION

Occupational exposure limits:

China: no data available

United States: no data available

Monitoring method: no data available

Engineering control: the production process is closed and ventilation is enhanced. Provide safe shower and eye wash equipment.

Respiratory protection: filter gas mask (half mask) should be worn when dust may be expected.

Eye protection: wear chemical safety glasses.

Physical protection: wear ordinary gas protective clothing.

Hand protection: wear rubber gloves.

Other protection: no smoking at the work site. Shower and change after work. Pay attention to personal hygiene.



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SECTION 8 PHYSICOCHEMICAL PROPERTY

Appearance and properties: solid, yellowish green powder (crystal).

Log value of octanol/water distribution coefficient: no data available

Melting point (°C) : at the beginning of 107 the boiling point (°C) : 190

Relative density (water =1) : no data available relative density of steam (air =1) : no data available

Saturated vapor pressure (kPa) : no data combustion heat (kJ/mol) : no data

Critical temperature (°C) : no data critical pressure (MPa) : no data

Flash point (°C) : no data ignition temperature (°C) : no data

Explosion upper limit % (V/V) : senseless explosion lower limit % (V/V) : senseless

Solubility: soluble in benzene, petroleum ether, insoluble in water, ethanol.

Main applications: used in medicine, chemical synthesis, dye.

SECTION 9 STABILITY AND REACTIVITY

Stability: stable.

Forbidden compound: oxidant.

Conditions to avoid contact: high heat.

Polymerization hazard: no polymerization.

Decomposition products: carbon monoxide, carbon dioxide.

SECTION 10 TOXICOLOGICAL INFORMATION

Acute toxicity:

LD50:2795mg/kg (mouse transoral), 200mg/kg (mouse transoral), 20g/kg (rabbit transdermal)

Irritant: no data available.

Mutagenicity: no data available.

Carcinogenicity: no data available.



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SECTION 11 TOXICOLOGICAL INFORMATION

Acute toxicity:

LD50:2795mg/kg (mouse transoral), 200mg/kg (mouse transoral), 20g/kg (rabbit transdermal)

Irritant: no data available.

Mutagenicity: no data available.

Carcinogenicity: no data available.

SECTION 12 ECOLOGICAL DATA

Ecotoxicological toxicity: no data available.

Biodegradability: no data available.

Non-biodegradable: no data available.

SECTION 13 WASTE DISPOSAL

Nature of waste: general organic waste.

Waste disposal method: safe burning.

Notes for disposal: refer to relevant national and local laws and regulations before disposal.

SECTION 14 TRANSPORT INFORMATION

Dangerous goods no. : not specified.

UN no. : not specified.

Packing mark: not specified.

Packing category: not specified.

Packing method: ordinary packing, with PE lining, composite paper bag or plastic woven bag outer packing, usually 25kg per bag.

Precautions for transportation: ensure the packaging is in good condition during transportation, and avoid strong extrusion and collision. Do not mix with strong oxidizing agent. Transportation vehicles shall be equipped with emergency leakage treatment equipment.



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SECTION 15 REGULATORY INFORMATION

Law of the People's Republic of China on security (passed by the standing committee of the ninth National People's Congress on June 29, 2002); Occupational disease prevention and control law of the People's Republic of China (passed by the standing committee of the ninth National People's Congress on October 27, 2001); Environmental protection law of the People's Republic of China (adopted by the standing committee of the seventh National People's Congress on December 26, 1989); Regulations on the safety administration of chemical dangerous goods (adopted at the executive meeting of the state council on January 9, 2002); Regulations on work safety licenses (adopted at the executive meeting of the state council on January 7, 2004); Classification and marking of commonly used hazardous chemicals (GB 13690-2009); Occupational exposure limits of harmful factors in industrial places (GBZ 2.1-2007); Hazardous chemicals directory



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