SAFETY DATA SHEET

1. IDENTIFICATION

Product name: 1,4-Benzoquinone

Product code: YL-187

Company: Shandong Yinglang Chemical Co., LTD

Address: New Material Park, Tianqiao district, Shandong Province

 Responsible Department:
 Sales Department

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Revision number: 2

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

PHYSICAL HAZARDS Not classified HEALTH HAZARDS

Acute toxicity (Oral)Category 3Acute toxicity (Inhalation)Category 3Skin corrosion/irritationCategory 2Serious eye damage/eye irritationCategory 2A

Specific target organ toxicity Central nervous system

- Single exposure [Category 2]

Specific target organ toxicity Respiratory tract irritation

- Single exposure [Category 3]

ENVIRONMENTAL HAZARDS

Acute aquatic hazardCategory 1Long-term aquatic hazardCategory 1

Label elements

Pictograms or hazard symbols



Signal word Danger

Hazard statements Toxic if swallowed or if inhaled

Causes skin irritation

Causes serious eye irritation

May cause damage to organs: Central nervous system

May cause respiratory irritation Very toxic to aquatic life

Very toxic to aquatic life with long lasting effects

Precautionary statements

[Prevention] Do not breathe dust, fume, mist, vapors or spray.

Use only outdoors or in a well-ventilated area.

Avoid release to the environment.

Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling.

Wear protective gloves, eye protection.

[Response] IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth.

IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice

or attention. Take off contaminated clothing and wash it before reuse.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call

a POISON CENTER or doctor.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get

medical advice or attention.

If exposed or concerned: Call a POISON CENTER or doctor.

Collect spillage.

Store in a well-ventilated place. Keep container tightly closed. [Storage]

Store locked up.

Dispose of contents and container in accordance with local, regional, national [Disposal]

regulations.

Other hazards which do not result in classification

Dust explosion possible if in powder or granular form, mixed with air.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Substance

Components: 1,4-Benzoquinone

>99.0%(T) Percent: 106-51-4 CAS RN:

Synonyms: p-Benzoquinone, p-Quinone

Chemical Formula: $C_6H_4O_2$

4. FIRST AID MEASURES

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Inhalation:

Call a POISON CENTER or doctor/physician.

Remove/Take off immediately all contaminated clothing. Gently wash with plenty Skin contact:

of soap and water. Call a POISON CENTER or doctor/physician.

Rinse cautiously with water for several minutes. Remove contact lenses, if present Eye contact:

and easy to do. Call a POISON CENTER or doctor/physician.

Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Ingestion:

Protection of first-aiders: A rescuer should wear personal protective equipment, such as rubber gloves and

air-tight goggles.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing

media:

Dry chemical, foam, water spray, carbon dioxide.

Precautions for firefighters: Fire-extinguishing work is done from the windward and the suitable

fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the

surroundings: Remove movable containers if safe to do so.

Special protective equipment When extinguishing fire, be sure to wear personal protective equipment for firefighters:

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, Use personal protective equipment. Keep people away from and upwind of protective equipment and

spill/leak. Entry to non-involved personnel should be controlled around the leakage

area by roping off, etc.

Environmental precautions: Be careful not to let it flow into rivers, etc., since adverse effects on the

environment are concerned.

Methods and materials for containment and cleaning

emergency procedures:

Sweep dust to collect it into an airtight container, taking care not to disperse it. Adhered or collected material should be promptly disposed of, in accordance with

up: appropriate laws and regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical measures: Handling is performed in a well ventilated place. Wear suitable protective

equipment. Prevent dispersion of dust. Wash hands and face thoroughly after

handling.

Use a closed system if possible. Use a local exhaust if dust or aerosol will be

generated.

Advice on safe handling: Avoid contact with skin, eyes and clothing.

Conditions for safe storage, including any

incompatibilities

Storage conditions: Keep container tightly closed. Store in a cool, dark and well-ventilated place.

Store under inert gas.

Store locked up.

Store away from incompatible materials such as oxidizing agents.

Light-sensitive, Air-sensitive

Packaging material: Comply with laws.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: Install a closed system or local exhaust. Also install safety shower and eye bath.

Exposure limits:

ACGIH TLV(TWA): 0.1 ppm OSHA PEL(TWA): 0.1 ppm

Personal protective equipment

Respiratory protection: Dust respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc.

Use respirators approved under appropriate government standards and follow

local and national regulations.

Hand protection: Impervious gloves.

Eye protection: Safety goggles. A face-shield, if the situation requires.

Skin and body protection: Impervious protective clothing. Protective boots, if the situation requires.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Solid

Form: Crystal - Powder

Colour: Pale yellow - Deep yellow green

Odour: Chlorine PH: 4 (1g/L 20°C)

Melting point/freezing point: 113°C

Boiling point/range:No data available
Flash point:
No data available

Flammability or explosive

limits:

Lower: No data available Upper: No data available Vapour pressure: 12Pa/20°C

Vapour density: 3.7

Relative density: No data available

Solubility(ies):

[Water] Slightly soluble (1.4g/100mL, 25°C)

[Other solvents]

Soluble: Methanol, Ether, Benzene, Acetone, Ethanol, Ethyl acetate

Slightly soluble: Hexane
Log Pow: 0.20
Autoignition temperature: 560°C

10. STABILITY AND REACTIVITY

Chemical stability: Stable under proper conditions.

Possibility of hazardous Dust explosion possible if in powder or granular form, mixed with air.

reactions:

Conditions to avoid: Static discharge

Incompatible materials: Oxidizing agents, Strong bases, Reducing agents, Combustibles

Hazardous decomposition Carbon dioxide, Carbon monoxide

products:

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: orl-rat LD50:130 mg/kg

ivn-rat LD50:25 mg/kg scu-mus LD50:93800 ug/kg

Skin corrosion/irritation: No data available
Serious eye No data available

damage/irritation:

Germ cell mutagenicity: dna-hmn-bmr 100 umol/L

dnd-hmn-mmr 1 umol/L/72H mmo-sat 8 mg/plate (+S9) oms-hmn-lym 5 umol/L sce-hmn-lym 5 umol/L

Carcinogenicity: skn-mus TDLo:800 mg/kg/29W-C

IARC = Group 3 (Not classifiable as carcinogenic to humans)

NTP = No data available
Reproductive toxicity: No data available
RTECS Number: DK2625000

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Fish:

Crustacea:

Algae:

Persistence / degradability:

No data available
No data available
No data available
No data available

Bioaccumulative 0.84

potential(BCF):

Mobility in soil

Log Pow: 0.20 Soil adsorption (Koc): 30 Henry's Law (PaM ³/mol): 48.52

13. DISPOSAL CONSIDERATIONS

Recycle to process, if possible. Consult your local regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

14. TRANSPORT INFORMATION

Hazards Class: 6.1: Toxic substance.

UN-No: 2587

Proper shipping name: Benzoquinone

Packing group: II Marine pollutant Y

15. REGULATORY INFORMATION

Regulations on the Control over Safety of Dangerous Chemicals (State Council announces on January 26, 2002 and revised on February 16,2011): Safe use and production, the storage of a dangerous chemical, transport, loading and unloading were prescribed.

This product is included in the list of dangerous chemicals (2015)/Serial No.: 86

16. OTHER INFORMATION

The reference company name of written contents

Company: Shandong Yinglang Chemical Co., LTD

Address: New Material Park, Tiangiao district, Shandong Province

Responsible Department: Sales Department +86-0531-88999650

This SDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.