

MATERIAL SAFETY DATA SHEET

LED UV CLEANER

1. Product identification

Product Name	LED UV Cleaner
Manufacturer	Signs Full Joint Tech Co. LTD
Address	2709 Room, Soaring Building, ABP, Fengtai District, Beijing, China Tel.: 0086 – (10) 57170106; Fax: 0086 – (10) 57170106

2. Composition / Information on Ingredients

Ingredient	CAS No	Percentage %
Solvent	-	100

3. Hazards identification

3.1. Emergency Overview

Harmful if swallowed, inhaled or absorbed through skin.

It causes irritation to eyes and respiratory tract.

Health Rating: 1

Reactivity Rating: 0

Flammability: 1

Personal protection: B

3.2. Potential Health Effects

Inhalation: Inhalation of vapors may cause irritation, headache, dizziness, fatigue, nausea, vomiting and loss of appetite. Weakness, incoordination and tremors may occur.

Ingestion: Swallowing may cause nausea, vomiting, abdominal pain, breathing difficulties, weakness. Liver and kidney damage may result from swallowing large quantities of the material.

Skin contact: May be absorbed through the skin with possible systemic effects.

Eye contact: May cause irritation, redness and pain.

4. First Aid Measures

- Inhalation:** Move to fresh air. If breathing is difficult, give oxygen. Call a physician.
- Ingestion:** Induce vomiting immediately as directed by medical personnel.
- Skin contact:** Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.
- Eye contact:** Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses after initial 1 – 2 minutes and continue flushing for several additional minutes. If effects last longer, consult physician, preferably an ophthalmologist.

5. Fire – fighting Measures

Extinguishing Media

Water fog or fine spray. Carbon dioxide. Dry chemical fire extinguishers.
Foam. Alcohol resistant foams are preferred. General purpose synthetic foams or protein foams may function, but will be less effective.

Extinguishing media to avoid

Do not use directed water stream.

Hazardous Combustion Products

During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: carbon oxides.

Protection of Firefighters

Wear positive – pressure self – contained breathing apparatus and protective fire-fighting clothing (includes fire-fighting helmet, coat, trousers, boots and gloves).
If protective equipment is not available or not used, fight fire from a protected location or a safe distance.

Specific Fire or Explosion Hazards

Fine dust of this product can form explosive mixtures with air and poses a definite fire and explosion hazard at all times; keep away from ignition sources.
Vapors are heavier than air and may travel a long distance and accumulate in low lying areas. Ignition and/or flashback may occur.
Spills of these organic liquids on hot fibrous insulations may lead to lowering of the auto-ignition temperatures, possibly resulting in spontaneous combustion.

6. Accidental Release Measures

Personal Precautions

Eliminate all sources of ignition in vicinity of spill or released vapor to avoid fire or explosion.

Wear appropriate personal protective equipment as specified in section 8.
Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

Environmental Precautions

Vapor explosion hazard, keep out of sewers. Contain liquid to prevent contamination of soil, surface water or ground water.

7. Handling and Storage

Handling

Containers, even those that have been emptied, can contain vapors.
Use in ventilated areas, pack it carefully and do not spray out of the container.
Operate with personal protective equipment.
No smoking, open flames or sources of ignition in handling and storage area.

Storage

Storage and use areas should be non-smoking areas.
Store in ventilated and dry places and avoid light exposure.
Regularly check whether the reservoir is damaged or leaking.
The safe range storage temperature is $-5 \sim 40^{\circ}\text{C}$.
Use of non-sparking or explosion proof equipment may be necessary, depending upon type of operation. Minimize sources of ignition, such as static buildup, heat, spark or flame.
Keep container closed.

8. Exposure Controls / Personal Protection

Exposure Guidelines

A “skin” notation following the exposure guideline refers to the potential for dermal absorption of the material including mucous membranes and the eyes either by contact with vapors or direct skin contact.

Engineering Controls

Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.

Personal Protective Equipment

Respiratory Protection: For most conditions, no respiratory protection should be needed; however, if discomfort is experienced, use an approved air-purifying respirator.

In misty atmospheres, use an approved particulate respirator.

For emergency conditions, use an approved positive-pressure self-contained breathing apparatus.

Protective Clothing: Use protective clothing chemically resistant to this material.
Selection of specific items such as face shield, gloves, boots, apron,

or full body suit will depend on operation.

Remove contaminated clothing immediately, wash skin area with soap and water, and launder clothing before reuse or dispose properly.

Hand/Skin Protection: Wear gloves made of butyl rubber, neoprene etc.

Eye/Face Protection: Use safety glasses. If exposure causes eye discomfort, use a full-face respirator.

9. Physical and Chemical Properties

Appearance/Odor: Transparent liquid

Boliling Point, °C	90 °C	Surface tension (dyne/cm)	21 – 25
Freezing Point, °C	-65 ± 5 °C	Specific Gravity	0.9 ± 0.10
Flash Point, °C	>-4 °C	Saturated vapor pressure	12 kPa
Viscosity	1 - 2 cps	Solubility	Slightly soluble in water; soluble in alcohol, ketone, ether, chloroform and other organic solvents

10. Stability and Reactivity

Stability: Stable under ordinary temperature and pressure.

Conditions to avoid: Direct sunlight, heat, flame, other sources of fire.

Conditions to substance: Strong acid, strong alkali, strong oxidizing agent, water.

11. Toxicological Information

Toxicological Data: Oral rat LD50: 5620 mg/kg; Inhalation rat LC50: 5760 mg/m³, 8 hours; Skin rabbit LD50: 4940 mg/kg.

Irritation: Skin: A slight irritation may be caused by repeated contact.

12. Ecological Information

Environmental Fate

N/A

13. Disposal Considerations

Any disposal practice must be in compliance with all local and national laws and regulations.

Disposal

Incinerate under controlled conditions in accordance with all local and national laws and regulations.

Contaminated Packaging

Empty containers can only be disposed of when the remaining product adhering to the container walls has been removed. Remove all labels.

14. Transport Information

Any transportation's practice must be in compliance with local, state or federal laws and regulations. Not classified as hazardous under transport regulations.

15. Regulatory Information

OSHA Standard	The product is not tested, but is usually considered as low toxicity.
TSCA Standard	This product conforms to the TSCA standard, under "the toxic substance management law" standard.
SARA III Standard	Not included in this product. If any, it is required to list the ingredient based on the SARA III list
RCRA Standard	If you ignore the purchase of the outer packaging, the product will not be considered hazardous waste, whether it is based on the contents of the list, or product characteristics. However, states often have strict standards. Users need to check the state's current release of hazardous waste standard regulations. Under the RCRA standard, the user has the responsibility to dispose of the product or its derivatives according to whether the product contains hazardous substances, or according to the standards for hazardous wastes (20 – 24 40cfr261).

16. Other Information

The information herein is given in good faith, but no warranty express or implied, is made. Recipients of our product must take responsibility for observing existing laws and regulations.