

Safety Data Sheet

Optical Brightener BBU Liquid

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Version: 2.1

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(30482930/SDS_GEN_CA/EN)

1. Identification

Product identifier used on the label

Optical Brightener BBU Liquid

Recommended use of the chemical and restriction on use

Recommended use*: for industrial use only

* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Details of the supplier of the safety data sheet

Company:

Dongguan Baoxu Chemical Technology Ltd
Caijing Business Bldg Dongguan CN 523071
Tel +86 0769 22821082

Emergency telephone number

Other means of identification

Synonyms: Stilbene disulfonic acid derivative

2. Hazards Identification

According to Hazardous Products Regulations (HPR) (SOR/2015-17)

Classification of the product

No need for classification according to GHS criteria for this product.

Label elements

The product does not require a hazard warning label in accordance with GHS criteria.

Hazards not otherwise classified

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If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

According to Controlled Products Regulations (CPR) (SOR/88-66)

Emergency overview

No particular hazards known.

3. Composition / Information on Ingredients

According to Hazardous Products Regulations (HPR) (SOR/2015-17)

<u>CAS Number</u>	<u>Weight %</u>	<u>Chemical name</u>
111-30-8	>= 0.0 - < 0.1%	glutaral

4. First-Aid Measures

Description of first aid measures

If inhaled:

Fresh air. If not breathing, give artificial respiration. If necessary, give oxygen. If breathing difficulties develop, aid in breathing and seek immediate medical attention.

If on skin:

Remove contaminated clothing. Wash affected areas thoroughly with soap and water. If irritation develops, seek medical attention.

If in eyes:

Immediately flush the eye(s) with lukewarm, gently flowing water for 15 minutes or until the chemical is removed. Get immediate medical attention if irritation persists.

If swallowed:

Do not induce vomiting due to aspiration hazard. If vomiting occurs, keep head lower than hips to prevent aspiration. Obtain medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms: No significant reaction of the human body to the product known.
Hazards: No hazard is expected under intended use and appropriate handling.

Indication of any immediate medical attention and special treatment needed

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:
water spray, foam, dry powder

Special hazards arising from the substance or mixture

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Advice for fire-fighters

Protective equipment for fire-fighting:

Wear self-contained breathing apparatus and chemical-protective clothing.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid contact with the skin, eyes and clothing. Take off immediately all contaminated clothing. Handle in accordance with good industrial hygiene and safety practice. Use personal protective clothing.

Environmental precautions

Prevent entry into sewage systems, ground and surface waters.

Methods and material for containment and cleaning up

Pick up with inert absorbent material (e.g. sand, earth etc.). Place into approved waste containers. Wear suitable protective equipment. Avoid release to the environment.

7. Handling and Storage

Precautions for safe handling

Personal protective equipment should be worn during open handling. Handle in accordance with good industrial hygiene and safety practice. Avoid all direct contact with the substance/product. Remove contaminated clothing and protective equipment before entering eating areas.

Protection against fire and explosion:

No special precautions necessary.

Conditions for safe storage, including any incompatibilities

Suitable materials for containers: High density polyethylene (HDPE)

Further information on storage conditions: Keep container tightly closed in a cool, well-ventilated place.

Storage stability:

Storage temperature: 0 - 60 °C

8. Exposure Controls/Personal Protection

Components with occupational exposure limits

glutaral	OSHA PEL	CLV 0.2 ppm 0.8 mg/m ³ ;
	ACGIH TLV	CLV 0.05 ppm ;

Advice on system design:

Ensure adequate ventilation.

Personal protective equipment

Respiratory protection:

Wear respiratory protection if ventilation is inadequate.

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Hand protection:

Chemical resistant protective gloves

Eye protection:

Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust), light protective clothing

General safety and hygiene measures:

Eye wash fountains and safety showers must be easily accessible. Hands and/or face should be washed before breaks and at the end of the shift. Avoid contact with skin and eyes.

9. Physical and Chemical Properties

Form:	liquid	
Odour:	odourless	
Odour threshold:	No data available.	
Colour:	yellow	
pH value:	9 - 10.6	
	as supplied	
Melting point:	approx. -1 °C	
Boiling point:	approx. 100 °C	
Sublimation temperature:	not applicable	
Flash point:	> 250 °C	(DIN EN ISO 13736)
Flammability:	not flammable	
Lower explosion limit:	For liquids not relevant for classification and labelling. The lower explosion point may be 5 - 15 °C below the flash point.	
Upper explosion limit:	For liquids not relevant for classification and labelling.	
Autoignition:	not applicable	
Vapour pressure:	not determined	
Density:	approx. 1.14 g/cm ³ (25 °C)	
Relative density:	No applicable information available.	
Vapour density:	No applicable information available.	
Partitioning coefficient n-octanol/water (log Pow):	No applicable information available.	
Self-ignition temperature:	> 500 °C	
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.	
Viscosity, dynamic:	< 50 mPa.s (25 °C)	
Solubility in water:	miscible	
Solubility (quantitative):	No applicable information available.	
Solubility (qualitative):	No applicable information available.	
Evaporation rate:	Value can be approximated from Henry's Law Constant or vapor pressure.	
Other Information:	If necessary, information on other physical and chemical parameters is indicated in this section.	

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10. Stability and Reactivity

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Oxidizing properties:
not fire-propagating

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

The product is stable if stored and handled as prescribed/indicated.

Conditions to avoid

No special precautions other than good housekeeping of chemicals.

Incompatible materials

No substances known that should be avoided.

Hazardous decomposition products

Decomposition products:

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:

No decomposition if stored and handled as prescribed/indicated.

11. Toxicological information

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects

Acute toxicity

Assessment of acute toxicity: Virtually nontoxic after a single ingestion.

Oral

Type of value: LD50

Species: rat

Value: > 5,000 mg/kg

Data of the active component

Inhalation

Type of value: LC50

Species: rat

Value: > 17,600 mg/m³

Dermal

Type of value: LD50

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Species: rabbit
Value: > 3,000 mg/kg

Assessment other acute effects

No applicable information available.

Irritation / corrosion

Assessment of irritating effects: Not irritating to eyes and skin.

Skin

Species: rabbit
Result: non-irritant
Method: other

Eye

Species: rabbit
Result: non-irritant

Sensitization

Assessment of sensitization: A sensitizing effect on particularly sensitive individuals cannot be excluded.

Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

Experimental/calculated data: OECD Guideline 407

NOAEL: 50 mg/kg

Genetic toxicity

Assessment of mutagenicity: The substance was not mutagenic in microorganisms.

Genetic toxicity in vivo: OECD Guideline 474 mouse negative

Carcinogenicity

Assessment of carcinogenicity: None of the components in this product at concentrations greater than 0.1% are listed by IARC; NTP, OSHA or ACGIH as a carcinogen.

Reproductive toxicity

Assessment of reproduction toxicity: No data available.

Teratogenicity

Assessment of teratogenicity: No data available.

Other Information

The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

Symptoms of Exposure

No significant reaction of the human body to the product known.

12. Ecological Information

Toxicity

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Aquatic toxicity

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms.

Toxicity to fish

LC50 (96 h) > 1,000 mg/l, *Lepomis macrochirus*

Aquatic invertebrates

EC50 (24 h) > 1,000 mg/l, *Daphnia magna* (OECD Guideline 202, part 1)

Aquatic plants

EC50 (72 h) > 1,000 mg/l, *Selenastrum capricornutum* (OECD Guideline 201)

Soil living organisms

Toxicity to soil dwelling organisms:

LC0 (14 d) > 10,000 mg/kg, *Eisenia foetida* (OECD Guideline 207)

Microorganisms/Effect on activated sludge

Toxicity to microorganisms

activated sludge/EC50 (3 h): > 100 mg/l

activated sludge/EC50: > 300 mg/l

Persistence and degradability

Elimination information

approx. 25 % (OECD Guideline 302 B)

Bioaccumulative potential

Bioaccumulation potential

No data available.

Mobility in soil

Assessment transport between environmental compartments

No data available.

Additional information

Sum parameter

Biochemical oxygen demand (BOD) Incubation period 5 d: 0 mg/g

Adsorbable organically-bound halogen (AOX): 0 %

Other ecotoxicological advice:

The product has not been tested. The statements on ecotoxicology have been derived from products of a similar structure and composition.

13. Disposal considerations

Waste disposal of substance:

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Incinerate in suitable incineration plant, observing local authority regulations.
Dispose of in accordance with national, state and local regulations.

Container disposal:

Empty containers or liners may retain product residues. Do not reuse empty containers.

14. Transport Information

Land transport

TDG

Not classified as a dangerous good under transport regulations

Sea transport

IMDG

Not classified as a dangerous good under transport regulations

Air transport

IATA/ICAO

Not classified as a dangerous good under transport regulations

15. Regulatory Information

Federal Regulations

Registration status:

Chemical DSL, CA released / listed

16. Other Information

SDS Prepared by:

Baoxu Chemical Product Regulations

SDS Prepared on: 2017/06/14

END OF DATA SHEET