



# Shanghai Harvest Chemical Industrial Co.,Ltd.

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## Safety Data Sheet according to 1907/2006/EC, Article 31

Printing date: 10.12.2019

Version No: 7

Revision: 10.12.2019

### \* SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

**Trade name:** Optical Brightener CBS-X

**CAS Number:** 27344-41-8

**EC number:** 248-421-0

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Application of the substance / the preparation:** Plastic additive  
Antioxidant

**Uses advised against:** No further relevant information available.

#### 1.3 Details of the supplier of the safety data sheet

**Manufacturer/Supplier:** Shanghai Harvest Chemical Industrial Co.,Ltd.  
Rom 806-807,Ailicheng Building,NO.333 Jinxiang Road,Pudong District Shanghai,China  
Email: sales@harvest-chem.com  
Fax: +86 (0)2151386438  
Tel: +86 (0)2151385350

**Further information obtainable from:** Health and Safety Department

**1.4 Emergency telephone number:** Fax: +86 (0)2151386438  
Tel: +86 (0)2151385350

### \* SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification according to Regulation (EC) No 1272/2008

Aquatic Chronic 4 H413 May cause long lasting harmful effects to aquatic life.

##### Classification according to Directive 67/548/EEC or Directive 1999/45/EC

R53: May cause long-term adverse effects in the aquatic environment.

##### Information concerning particular

**hazards for human and environment:** Void

#### 2.2 Label elements

##### Labelling according to Regulation (EC)

##### No 1272/2008

##### Hazard pictograms

##### Signal word

##### Hazard statements

##### Precautionary statements

The substance is classified and labelled according to the CLP regulation.

Void

Void

H413 May cause long lasting harmful effects to aquatic life.

P273 Avoid release to the environment.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

#### 2.3 Other hazards

##### Results of PBT and vPvB assessment

**PBT:** Not determined

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vPvB: Not determined

### SECTION 3: Composition/information on ingredients

#### 3.1 Chemical characterisation: Substances

<b>CAS No. Description</b>	27344-41-8 4,4'-bis(2-disulfonic acid styryl) biphenyl
<b>Identification number(s)</b>	
<b>EC number:</b>	248-421-0

### \* SECTION 4: First aid measures

#### 4.1 Description of first aid measures

##### General information:

Take affected persons out of danger area and lay down.

##### After inhalation:

Supply fresh air; consult doctor in case of complaints.

##### After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

##### After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

Remove contact lenses, if present and easy to do. Continue rinsing.

##### After swallowing:

Rinse out mouth and then drink plenty of water.

If symptoms persist consult doctor.

#### 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

#### 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

### \* SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Use fire extinguishing methods suitable to surrounding conditions.

##### For safety reasons unsuitable extinguishing agents:

Water with full jet

#### 5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

In case of fire, the following can be released:

Carbon monoxide

Carbon dioxide

Nitrogen oxides (NOx)

Sulphur oxides (SOx)

#### 5.3 Advice for firefighters

##### Protective equipment:

Wear self-contained respiratory protective device.

##### Additional information

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

### \* SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective clothing.

Ensure adequate ventilation.

Avoid formation of dust.

Keep away from ignition sources.

#### 6.2 Environmental precautions:

Do not allow to penetrate the ground/soil.

Do not allow to enter sewers/ surface or ground water.

#### 6.3 Methods and material for containment and cleaning up:

Pick up mechanically.

Dispose of the material collected according to regulations.

#### 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

### \* SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of dust.  
Any unavoidable deposit of dust must be regularly removed.

#### Information about fire and explosion protection:

Dust can combine with air to form an explosive mixture.  
Protect against electrostatic charges.  
Keep ignition sources away - Do not smoke.

#### 7.2 Conditions for safe storage, including any incompatibilities

##### Storage:

##### Requirements to be met by storerooms and receptacles:

Store only in the original receptacle.

##### Information about storage in one common storage facility:

Store away from oxidising agents.

##### Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

#### 7.3 Specific end use(s)

No further relevant information available.

### \* SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Ingredients with limit values that require monitoring at the workplace:

Not required.

#### 8.2 Exposure controls

##### Personal protective equipment: General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.  
Do not eat, drink, smoke or sniff while working.  
The usual precautionary measures are to be adhered to when handling chemicals.  
Not necessary if room is well-ventilated.  
Use suitable respiratory protective device in case of insufficient ventilation.  
Filter P2

##### Respiratory protection:

##### Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.  
Check protective gloves prior to each use for their proper condition.

##### Material of gloves

PVC gloves

##### Penetration time of glove material

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

##### Eye protection:

Safety glasses

##### Body protection:

Protective work clothing

### \* SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

##### General Information

##### Appearance:

###### Form:

Crystal powder or granule

###### Colour:

Yellowish

Yellowish green

##### Odour:

Odourless

##### Odour threshold:

Not determined.

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<b>pH-value:</b>	Not determined.
<b>Change in condition</b>	
<b>Melting point/Melting range:</b>	Not determined.
<b>Boiling point/Boiling range:</b>	Not determined.
<b>Flash point:</b>	
<b>Flammability (solid, gaseous):</b>	Product is not flammable.
<b>Ignition temperature:</b>	Not applicable
<b>Decomposition temperature:</b>	Not determined.
<b>Self-igniting:</b>	Product is not selfigniting.
<b>Danger of explosion:</b>	Product does not present an explosion hazard.
<b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
<b>Oxidising properties</b>	No
<b>Vapour pressure at 20 °C:</b>	Not applicable
<b>Density:</b>	Not determined.
<b>Relative density</b>	Not determined.
<b>Vapour density</b>	Not determined.
<b>Evaporation rate</b>	Not determined.
<b>Solubility in / Miscibility with water:</b>	Not applicable
<b>Partition coefficient (n-octanol/water):</b>	
<b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
<b>9.2 Other information</b>	No further relevant information available.

### \* SECTION 10: Stability and reactivity

<b>10.1 Reactivity</b>	
<b>10.2 Chemical stability</b>	No decomposition if used and stored according to specifications.
<b>Thermal decomposition / conditions to be avoided:</b>	No decomposition if used according to specifications.
<b>10.3 Possibility of hazardous reactions</b>	Risk of dust explosion if enriched with fine dust in the presence of air. Toxic fumes may be released if heated above the decomposition point.
<b>10.4 Conditions to avoid</b>	No further relevant information available.
<b>10.5 Incompatible materials:</b>	No further relevant information available.
<b>10.6 Hazardous decomposition products:</b>	No dangerous decomposition products known.

### SECTION 11: Toxicological information

<b>11.1 Information on toxicological effects</b>	
<b>Acute toxicity:</b>	
<b>LD/LC50 values relevant for classification:</b>	
Oral LD50 > 10000 mg/kg (Rat)	
<b>Primary irritant effect:</b>	
<b>on the skin:</b>	No irritant effect.

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**on the eye:** No irritating effect.  
**Sensitisation:** No sensitising effects known.  
**Additional toxicological information:** When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

### \* SECTION 12: Ecological information

#### 12.1 Toxicity

##### Aquatic toxicity:

EC50 (24h) &gt; 100 mg/L (Daphnia)

IC50 &gt; 100 mg/L (Bacteria)

LC50 (96h) &gt; 100 mg/L (Fish)

#### 12.2 Persistence and degradability

Not readily biodegradable

#### 12.3 Bioaccumulative potential

Due to the distribution coefficient n-octanol/water a worth-mentioning accumulation in organisms is not expected.

#### 12.4 Mobility in soil

No further relevant information available.

#### Additional ecological information:

##### General notes:

Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow product to reach ground water, water course or sewage system.

#### 12.5 Results of PBT and vPvB assessment

##### PBT:

Not determined

##### vPvB:

Not determined

#### 12.6 Other adverse effects

No further relevant information available.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

##### Recommendation:

Must be specially treated adhering to official regulations.

#### Uncleaned packaging

##### Recommendation:

Disposal must be made according to official regulations.

### SECTION 14: Transport information

#### 14.1 UN-Number

ADR, IMDG, IATA

Void

#### 14.2 UN proper shipping name

ADR, IMDG, IATA

Void

#### 14.3 Transport hazard class(es)

ADR, IMDG, IATA

##### Class

Void

#### 14.4 Packing group

ADR, IMDG, IATA

Void

#### 14.5 Environmental hazards:

##### Marine pollutant:

No

#### 14.6 Special precautions for user

Not applicable.

#### 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:

Not applicable.

#### Transport/Additional information:

Not dangerous according to the above specifications.

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UN "Model Regulation": -

### \* SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

**Chemical Inventories:**

Australia - AICS  
 Canada - DSL  
 China - IECSC  
 EU - EINECS  
 Japan - ENCS  
 Korea - ECL  
 New Zealand - NZIoC  
 Philippines - PICCS  
 USA - TSCA

**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### \* SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Department issuing SDS :**

Shanghai Harvest Chemical Industrial Co.,Ltd.  
 Rom 806-807,Ailicheng Building,NO.333 Jinxiang Road,Pudong District Shanghai,China  
 Email: sales@harvest-chem.com  
 Fax: +86 (0)2151386438  
 Tel: +86 (0)2151385350

**Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
 IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
 ICAO: International Civil Aviation Organisation  
 ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)  
 REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals  
 MARPOL: (from Marine Pollutant) International Convention for the Prevention of Marine Pollution from Ships  
 IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
 UN: United Nations (also UNO: United Nations Organization)  
 NOEC: No Observed Effect Concentration  
 OECD: Organisation for Economic Co-operation and Development  
 ASTM: American Society for Testing and Materials  
 WAF: Water Accommodated Fraction  
 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bioaccumulative and Toxic  
 vPvB: very Persistent and very Bioaccumulative  
 Aquatic Chronic 4: Hazardous to the aquatic environment - Chronic Hazard, Category 4

\* Data compared to the previous version altered.