



Material Safety Data Sheet (MSDS)



Version 2.0

Revision date 1.1.2017

1. IDENTIFICATION OF THE PRODUCT AND MANUFACTURE

1.1 PRODUCT IDENTIFIER

Product name	Food Additive Brilliant Blue
Identified uses	Food color, which can be used in food, drugs, cosmetics, etc.

1.2 MANUFACTURE INFORMATION

Company	Shanghai Dyestuffs Research Institute Co., Ltd
Address	No.1238 ZhongShan Rd.(N), Shanghai
Post Code	200065
Telephone	008621-56086210
Fax	008621-56084790
Address	shitou@shi-tou.com

1.3 EMERGENCY PHONE NO.	008621-56093493
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2. HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]
Not classified

2.2 LABEL ELEMENTS

Labeling according Regulation (EC) No 1272/2008 [CLP]

Hazard pictograms	No data available.
Signal word	No signal word.
Hazard statements	No known significant effects or critical hazards.

Precautionary statement(s)

Main symptoms	May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
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Emergency measures	Move to fresh air and keep comfortable rest position if inhaled and cause dyspnea. If symptoms start to deteriorate: Call a POISON CENTER or doctor/ physician.
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2.3 OTHER HAZARDS

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 COMPOSITION

It's an organic compound.

3.2 SPECIFIC INFORMATION

Chemical name	the disodium salt of ethyl [4-[p-[ethyl (m-sulfobenzyl)amino]- α -(o-sulfophenyl)benzylidene]-2,5-cyclohexadien-1-ylidene] (m-sulfobenzyl) ammonium hydroxide inner salt
Synonyms	Brilliant Blue
Formula	$C_{37}H_{34}N_2Na_2O_9S_3$
Formula weight	792.85
CAS-No.	3844-45-9
EINECS-No.	223-339-8
Color Index	C.I. 42090 C.I.FOOD BLUE 2

4. FIRST AID MEASURES**4.1 DESCRIPTION OF FIRST AID MEASURES**

If inhaled	Move person into fresh air. Keep person warm and at rest. If not breathing, give artificial respiration and call a POISON CENTER or doctor/ physician.
In case of skin contact	Wash off with soap and plenty of water.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.
If swallowed	Emetic and rinse mouth with water. Consult a physician.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

See Section 11 for more detailed information on health effects and symptoms.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

See Section 11 for more detailed information on health effects and symptoms.

5. FIRE-FIGHTING MEASURES**5.1 EXTINGUISHING MEDIA**

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
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5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

No specific fire or explosion hazard.

5.3 ADVICE FOR FIREFIGHTERS

Wear appropriate protective equipment and self-contained

breathing apparatus for firefighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Use personal protective equipment. Keep unnecessary and unprotected personnel from entering. Avoid dust formation. Avoid breathing vapors, dust or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8. Hazard of slipping on spilt product.

6.2 ENVIRONMENTAL PRECAUTIONS

Avoid dispersal of spilt material and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Damp down. Pick up and arrange disposal without creating dust. Scoop into closed, marked containers. Dispose of via a licensed waste disposal contractor.

6.4 REFERENCE TO OTHER SECTIONS

For information on appropriate personal protective equipment see section 8.

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Avoid swallowed, inhaled and contact with skin and eyes. Rinse thoroughly after operation. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Equip essential fire-fighting device.

7.3 SPECIFIC END USE(S)

Apart from the uses mentioned in section 1.1 no other specific uses are stipulated.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

No data available.

8.2 EXPOSURE CONTROLS

Handle in accordance with good industrial hygiene and safety practice. Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

8.3 PERSONAL PROTECTIVE MEASURES

Respiratory protection	Dust-protection mask approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Hand protection	Gloves approved under appropriate government standards such as NIOSH (US) or 89/686/EEC.
Eye protection	Safety eyewear approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin/body protection	Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

9. PHYSICAL AND CHEMICAL POPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

GENERAL INFORMATION

Appearance	Powder or particle
Color	Violet or Bluish Violet
Odour	Characteristic

Important health, safety and environmental information

pH	5.5— 7.5(10g/L)
Melting/freezing point	283 °C
Initial boiling point and boiling range	No data available
Flash point	No data available
Explosion limit	No data available
Vapour pressure/density	No data available
Density	0.8g/cm ³
Water solubility	200g/L(25 °C)

9.2 OTHER INFORMATION

Partition coefficient: noctanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Oxidizing properties	None

10. STABILITY AND REACTIVITY

10.1 REACTIVITY

No data available

10.2 CHEMICAL STABILITY

This product is stable.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No data available

10.4 CONDITIONS TO AVOID

No data available

10.5 INCOMPATIBLE MATERIALS

No data available

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

No data available

11. TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

Acute toxicity	LD50 Oral - rat - >2000mg/kg
Skin corrosion/irritation	Non-irritant/corrosive rabbit
Eye corrosion/irritation	Non-irritant/corrosive rabbit
Respiratory or skin sensitization	May cause respiratory or skin sensitization.
Germ cell mutagenicity	No data available
Carcinogenicity	No component of this product present at level to 0.1% is identified as probable, possible carcinogen by IARC.
Reproductive toxicity	No data available
Specific target organ Toxicity-single exposure	No data available
Specific target organ Toxicity-repeated exposure	No data available
Aspiration hazard	May cause respiratory irritation.

12. ECOLOGICAL INFORMATION

12.1 TOXICITY

Toxicity to fish	LC50 - Oncorhynchus mykiss (rainbow trout)
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 97 mg/l - 48 h

12.2 PERSISTENCE AND DEGRADABILITY

No data available

12.3 BIOACCUMULATIVE POTENTIAL

No data available

12.4 MOBILITY IN SOIL

No data available

12.5 RESULTS OF PBT AND vPVB ASSESSMENT

No data available

12.6 OTHER ADVERSE EFFECTS

Arsenic	≤1.0 mg/kg
Lead	≤10.0 mg/kg
Manganese	≤50.0 mg/kg

13. DISPOSAL CONSIDERATIONS**13.1 WASTE TREATMENT METHODS**

Product	Product residues and uncleaned empty containers should be sealed, labeled, and disposed of or recycled in accordance with national and local regulations.
Contaminated packaging	Waste packaging should be recycled. Incineration should only be considered when recycling is not feasible and local regulations.

14. TRANSPORT INFORMATION**14.1 UN NUMBER**

ADR/RID: — IMDG: — IATA: —

14.2 UN PROPER SHIPPING NAME

ADR/RID: Not dangerous goods
IMDG: Not dangerous goods
IATA: Not dangerous goods

14.3 TRANSPORT HAZARD CLASS(ES)

ADR/RID: — IMDG: — IATA: —

14.4 PACKAGING GROUP

ADR/RID: — IMDG: — IATA: —

14.5 ENVIRONMENTAL HAZARDS

ADR/RID: — IMDG Marine pollutant: no IATA: —

14.6 SPECIAL PRECAUTIONS FOR USER

Pay much attention to the rain, moisture, sunshine and keep away from poisonous/harmful objects.

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No.1907/2006.

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION APPLICABLE TO THIS SUBSTANCE OR MIXTURE

No data available

15.2 CHEMICAL SAFETY ASSESSMENT

No data available

16. OTHER INFORMATION

Relevant national and local regulations should be observed while using this product.

The data given here is based on current knowledge and experience. The given details do not imply any guarantee concerning the composition, properties or performance.

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