

# MATERIAL SAFETY DATA SHEET

## Optical Brightener EBF

### SECTION I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name Optical Brightener EBF  
Chemical Name 2,5 BIS (Benzoxazol - 2 YL) Thiophene;  
CAS NO 12224 - 41-8  
Registration No. The product is a preparation so the ingredients are pre-registered or are exempted from registration as declared by supplier of Raw Material  
**Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.  
**Application of the substance / the mixture**  
Used as an optical whitening agent for the wet processing of polyester/ polyester blend textiles.

### DETAILS OF THE SUPPLIER OF THE MATERIAL SAFETY DATA SHEET

**Manufacturer/Supplier :**  
DONGGUAN BAOXU CHEMICAL TECHNOLOGY LTD  
ROOM 1118 CAIJIN BUSINESS BUILDING, NAN  
CHENG DISTRICT, DONGGUAN, GUANGDONG,  
CHINA

**Further information obtainable from:**  
Mr. Bruce Hu info@additivesforpolymer

**Emergency Telephone Number :**  
Contact details of European importer Emergency  
Telephone number Telephone number of EU Importer:  
Opening hours:  
Other Comments (e.g. language(s) of the phone service): English

### SECTION II. HAZARDS IDENTIFICATION

- Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008  
**CORROSION**  
Eye Dam. 1 H318 Causes serious eye damage.  
Skin Irrit. 2 H315 Causes skin irritation.
- Classification according to Directive 67/548/EEC or Directive 1999/45/EC  
**Xi; Irritant**  
R41: Risk of serious damage to eyes.  
• **Information concerning particular hazards for human and environment: Not applicable.**  
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- **Classification system:**  
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
- **Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms** GHS05
- **Signal word** Danger
- **Hazard-determining components of labelling:** Isotridecanol, 3-5 EO
- **Hazard statements**  
H315 Causes skin irritation.  
H318 Causes serious eye damage

#### -- Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P321	Specific treatment (see on this label).
P362	Take off contaminated clothing and wash before reuse.
P332+P313	If skin irritation occurs: Get medical advice/attention.

- Other hazards
- Results of PBT and vPvB assessment
- PBT : Not applicable.
- vPvB: Not applicable.

### SECTION III. COMPOSITION AND INFORMATION ON INGREDIENTS

- **Chemical characterization:** Mixture
  - Description Mixture of substances listed below with nonhazardous additions.
- **Dangerous components**

CAS: 69011-36-5	Isotridecaanol, 3-5 EO	10.0%
	Xi R38-41	
	R52/53	
	Eye Dam. 1, H318; Skin Irrit. 2, H315; Aquatic Chronic 3, H412	
CAS: 25322-68-3	Polyethylene glycol	5.0%
NLP: 500-038-2	Xi R37	
	STOT SE 3, H335	
- **Additional information:** For the wording of the listed risk phrases refer to section 16.

### SECTION IV. FIRST AID MEASURES

#### Description of first aid measures

- **General information:**
  - Immediately remove any clothing soiled by the product.
- **After inhalation**
  - Supply fresh air and to be sure call for a doctor.
  - In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**
  - Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**
  - Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:**
  - Drink plenty of water and provide fresh air. Call for a doctor immediately.
- **Most important symptoms and effects, both acute and delayed**
  - No further relevant information available.
- **Information for doctor:**
  - Treat symptomatically and supportively.
- **Indication of any immediate medical attention and special treatment needed**
  - No further relevant information available.

### SECTION V. FIRE FIGHTING MEASURES

#### Extinguishing media

- **Suitable extinguishing agents:**
  - CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture :**
  - May produce carbon mono-oxide, carbon dioxide and nitrogen oxides (Nox).
- **Advice for firefighters**
- **Protective equipment**
  - Wear self contained breathing apparatus for fire fighting if necessary.

## SECTION VI. ACCIDENTAL RELEASE MEASURES

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation
- **Environmental precautions**  
Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Use neutralising agent.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## SECTION VII. HANDLING AND STORAGE

### Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

- **Information about fire - and explosion protection:**  
Keep away from ignition sources and naked flame.

### Conditions for safe storage, including any incompatibilities

#### • Storage:

- **Requirements to be met by storerooms and receptacles:**  
Store in a cool, dry, well-ventilated area away from incompatible substances.
- **Information about storage in one common storage facility:**  
Store away from excessive heat.
- **Further information about storage conditions:**  
Keep container tightly sealed.
- **Specific end use(s)**  
Used as an optical whitening agent for the wet processing of polyester/ polyester blend textiles.

## SECTION VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

- **Additional information about design of technical facilities:**  
Local exhaust ventilation required plus good work practise. Safety shower. Eye fountain.

#### • Control parameters

- **Ingredients with limit values that require monitoring at the workplace:**

#### 25322-68-3 Polyethylene glycol (5%)

Denmark	TWA 1000 mg/m <sup>3</sup> ,	MAY 2011
Germany	MAK 1000 mg/m <sup>3</sup> , inhal,	2011
The Netherlands	MAC-TGG 1000 mg/m <sup>3</sup> ,	2003
Switzerland	MAK-W 1000 mg/m <sup>3</sup> ,	JAN 2011

#### • Exposure Controls

##### Personal protective equipment:

##### General protective and hygienic measures:

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing
- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes and skin.

#### • Respiratory protection

- In case of brief exposure or low pollution use respiratory filter device.
- In case of intensive or longer exposure use self-contained respiratory protective device.

#### • Protection of hands:

##### Use Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/the preparation/the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

##### • Material of gloves

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. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

##### • Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection** Tightly sealed goggles

- **Body protection** Protective work clothing

## SECTION IX. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

#### General Information

##### Appearance

Form	Fluid
Colour	White Liquid Dispersion
Odour	Characteristic
pH-value	4.5-5.5

##### Change in Conditions

Melting point/Melting range	Not applicable
Boiling point/Boiling range	100°C

Flash point Not applicable

Flammability (solid, gaseous) Not applicable

Self-igniting	Product is not self igniting.
Danger of explosion	Product does not present an explosion hazard
Vapour pressure at 20 °C	23 hPa

Density Not determined

Solubility in/Miscibility with water Not miscible or difficult to mix.

Partition coefficient (n-octanol/water) No determined

Viscosity: Dynamic Not determined

Other Information No further relevant information available.

## SECTION X. STABILITY AND REACTIVITY

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions**  
No dangerous reactions known.
- **Conditions to avoid**  
Keep away from Heat
- **Incompatible materials**  
No further relevant information available.
- **Hazardous decomposition products**  
May produce oxides of carbon and nitrogen

## SECTION XI: TOXICOLOGICAL INFORMATION

- Information on toxicological effects
- Acute toxicity:
- LD/LC50 values relevant for classification:  
69011-36-5 Isotridecaanol, 3-5 EO  
Oral Ld50 > 500 - < 2000 mg/kg (rat)

#### Primary irritant effect:

##### • On the skin:

Irritating effect CAS: 69011-36-5  
Test Guideline: OECD Guideline 404  
Species: Rabbit  
Result: Irritant.

##### • On the eye:

Strong irritant with the danger of severe eye injury.  
CAS: 69011-36-5  
Test Guideline: OECD Guideline 405  
Species: Rabbit  
Result: Irritant.  
Risk of serious damage to eyes

- **Sensitization:** No sensitizing effects known.

**Additional toxicological information:** The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for preparations as issued in the latest version: Irritant

- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**  
The product does not exhibit CMR effects.

## SECTION XII. ECOLOGICAL INFORMATION

Aquatic Toxicity Quantitative data on the ecological effect of this product are not available.

- **Persistence and Degradability** : No further relevant information available.
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

- Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.
- **Other adverse effects** No further relevant information available.

## SECTION XIII. DISPOSAL CONSIDERATIONS

### Waste treatment methods

- **Recommendation**
  - Dispose off waste material according to local, state and federal regulations.
- **European waste catalogue 04 02:** Wastes from the textile industry
- **Uncleaned packaging:**
- **Recommendation:** Dispose of as unused product. Disposal must be made according to official regulations.

## SECTION XIV. TRANSPORTATION INFORMATION

- UN-Number
- ADR, ADN, IMDG, IATA Not Applicable
- UN proper shipping name
- ADR, ADN, IMDG, IATA NotApplicable
- Transport hazard class(es)
- ADR, ADN, IMDG, IATA Class Not Applicable
- Packing group
- ADR, IMDG, IATA Not Applicable
- Environmental hazards:
- Marine pollutant: No
- Special precautions for user Not applicable
- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable
- UN "Model Regulation" ---

## SECTION XV. REGULATORY INFORMATION

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to Regulation (EC) No 1272/2008**

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- **Signal word** Danger
- **Hazard-determining components of labelling:**
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- **Hazard statements**
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- P362 Take off contaminated clothing and wash before reuse.
- P332+P313 If skin irritation occurs: Get medical advice/attention.

### National regulations:

- **Other regulations, limitations and prohibitive regulations**
  - User to follow national laws and regulations.

- **Substances of very high concern (SVHC) according to REACH, Article 57**  
The ingredients of preparation are not listed as SVHC.

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

## **SECTION XVI. 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.

### • **Relevant phrases**

H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.
R37	Irritating to respiratory system.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### • **Department issuing MSDS:**

Product safety department.

### • **Contact:**

Mr. Devansh Valia [dvv@unitedspecialities.com](mailto:dvv@unitedspecialities.com)  
Mr. Shaunak Mehta [shaunak@unitedspecialities.com](mailto:shaunak@unitedspecialities.com)

### **Laboratory:**

[lab@unitedspecialities.com](mailto:lab@unitedspecialities.com)

### • **ABBREVIATIONS AND ACRONYMS:**

ADR: Accord européen sur le transport des marchandises dangereuses par Rout  
(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  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2  
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1  
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3  
Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

### • **Sources**

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/ EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

Data from BASF MSDS for CAS: 69011-36-5  
Occupational Exposure Limits (OELs) listing  
<http://www.expub.com/Members/listexpertSearchResults.aspx>

### \* **Data compared to the previous version altered.**

Section 1: Identification of the substance/mixture and of the company/undertaking  
Section 2: Hazard Identification  
Section 3: Composition/information of ingredients  
Section 4: First-aid measures.  
Section 5: Fire-fighting measures  
Section 6: Accidental Release measures  
Section 7: Handling and storage.  
Section 8: Exposure Controls/Personal protection.  
Section 9: Physical and Chemical properties.  
Section 10: Stability and Reactivity.  
Section 11: Toxicological Information.  
Section 12: Ecological Information.  
Section 13: Disposal consideration.  
Section 14: Transport Information  
Section 15: Regulatory information  
Section 16: Other information.