

Material Safety Data Sheet

(under OSHA's Hazard Communication Standard 29 CFR 1910-1200)
(According to 93/112 EEC Commission Directive)

Product : **Bittex OX (BYB)**
Product code : ob-11357



Issuing date : 2017-2-4
Supross Chemie, Switzerland

1. Identification of Substance / Preparation and Company Name

Product Name : **Bittex OX (BYB)**
Identification of product : Fluorescent brightener

Companyname : Supross Co., Ltd.
Address : 310 / Hyundai Ettrebo bldg., #852, Janghang-dong,
Ilsan-ku, Goyangshi, Kyunggi-do, Korea

Emergency Tel No. : (82-31) 920-8778
Emergency Fax No. : (82-31) 920-8777 E-mail : supross@kornet.net

2. Composition / Information on Ingredients

Hazardous components : Technically pure. Hazardous ingredients are not practically contained

Chemical family : stilbene (C₄₀H₄₂O₁₀N₁₂S₂Na₂)
Molecular weight : 960
CAS No.: 4193-55-9
Chemical characterization : ..

4,4-bis{4-anilino-6-bis(2-hydroxyethyl)amino-1,3,5-triazin-2-yl}amino stilbene-2,2-disulfonic acid disodium salt

3. Hazard Related To Use

Inhalation : may cause respiratory irritation if excessive inhalation
Skin contact : no significant hazards under conditions of normal use
Eye contact : no significant hazards under conditions of normal use
Ingestion : no significant hazards under conditions of normal use

4. Emergency & First Aid Measures

If inhaled : Remove to fresh air. If breathing is difficult,
give oxygen respiration and get medical attention immediately.

Skin contact : Remove affected clothing and wash all exposed area with
mild soap & water. If irritation develops, consult physician.

Eye contact : Immediately flush eyes with flowing water for at least
15 minutes. If eye irritation persist, consult a specialist.

Ingestion : Rinse mouth and induce vomiting. Never give water or
induce vomiting if victim is unconscious or convulsing.

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5. Fire Fighting Measures

Special Hazard	:	No fire hazard when exposed to heat or flame.
Extinguishing media	:	Carbon dioxide, dry chemical powder, foam or water spray, CO ₂ etc.
Specific exposure hazards	:	High temp. decomposition may liberate H ₂ O ₂ & oxides of carbon, nitrogen, sulfur which may be toxic
Protection against fire	:	Wear protective clothing and self-contained breathing apparatus (SCBA)

6. Accidental Release Measures

Personal Precaution	:	Wear suitable protective equipment, clothing and gloves.
Environmental Precaution	:	Comply with local, state & federal regulations for container disposal.
Spillage/leakage	:	Scoop up spilled liquid into a container for disposal & wash off the contaminated area with water.

7. Handling and Storage

Handling	:	Avoid all unnecessary exposure. Handle in accordance with good industrial hygiene and safety guidelines.
Storage	:	Keep container closed in a dry and cool place when not in use. Store away from incompatible substances.

8. Exposure Control / Personal Protection

Personal protection

Respiratory protection	:	NIOSH/MSHA approved dust or mist respirator should be used if airborne particulate is generated when handling.
Skin protection	:	Coveralls, gloves, apron, boots to minimize contact
Eye protection	:	Chemical goggles or safety glasses.
Ingestion	:	Do not eat, drink or smoke around chemicals.
Industrial hygiene	:	Local exhaust to control to recommend P.E.L.

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9. Physical and Chemical Properties

Appearance / physical state	:	crystalline powder
Color	:	yellowish- bluish
Odor	:	odorless
Melting Point	:	over 350°C
Boiling Point (at 760mm/Hg	:	not applicable
Vapour pressure (mmHg 20°C)	:	not applicable
Bulk Density	:	no data available
Solubility to water at 25°C	:	40 g/l
Viscosity	:	no data available
pH value approx. (at 25°C)	:	9~ 10 at 1% sol'n
VOC	:	no volatile organic : vapor-water only
Self ignition temperature	:	no data available
Flash Point	:	no data available
Explosion limits (upper-lower)	:	no data available

10. Stability and Reactivity

Stability	:	stable
Hazardous reactions	:	stable
Hazardous properties	:	not known under normal conditions
Materials to avoid	:	strong oxidizing agents

11. Toxicological Information

Rat / oral / LD ₅₀ (g/ kg):	>16g/ kg	<u>Carcinogenicity</u>
Rabbit / dermal / LD ₅₀ (mg/ kg) :	no data available	NPT : No
Rat / inhalation / LD ₅₀ (g/ k):		
Dermal irritation / rabbit:	no data available not irritant	LARC monograph : No

12. Ecological Information

LD ₅₀ (mg/ kg)	:	no data available
BOD ₃	:	no data available
COD	:	no data available
TOC	:	no data available
Biological elimination	:	no data available
Ecotoxicity (rainbow trout) LC50	:	no data available

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OSHA Hazard Clarification

Acute:	No	Reactive	:	No
Chronic:	No	Oxidizer	:	No
Flammable:	No			

13. Disposal Considerations

Disposal should be in accordance with local, state or national legislation.

14. Transport Information

General information :	Not regulated. Non-hazardous product
49CFR172.101-102 :	None
	Store and load separately from food and consumable products.

15. Regulatory Information

Risk phrase(s):	None	Symbol(s):	None
R phrase(s):	None	S phrase(s):	None
UN No.:	None	RQ:	None
Poison constituent :	None	TSCA listed:	listed
OSHA regulated :	None	SARA Title 111 Sect. 3 :	not reportable
Hazardous substance (49CFR CERCLA list):	None		
DOT Placard (CFR 172.504):	not required		
DOT Shipping name (49CFR 172.101-102):	not available		
DOT Label (49CFR 172.101-102):	not available		
RTK :	Bittex OX (BYB)		
DOT Hazard Classification Primary Secondary (49CFR172.101-102):			

None

Contents/format of this MSDS are in accordance with EEC Commission Directives 93/112EEC.

16. Other Information

Transportation regulation varies by locality. Recommended uses and restrictions : None
Shipper should comply with local government regulation.
Bill of lading description - Chemical is NOIBN

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