



# Luminophore BYB 400%

## SECTION I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

- Product Name Fluorescent Brightening Agent - C.I. No. FBA-28  
Trade Name Luminophore BYB 400%  
CAS Number 4193-55-9
- Registration number 05-2115945424-45-0000(Pre-registration number)
  - Relevant identified uses of the substance or mixture and uses advised against
  - Application of the substance / the preparation It is used as a fluorescent brightening agent.

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

- Marketed by UNITED VENTURES  
53, Siddhivinayak, Sp-19/20, N.S.Road No-7,  
JVPD Scheme, Vile- Parle (W), Mumbai 400049, INDIA  
Tel No.: +91-22-26701144/55

- Further information obtainable from:  
Tel : +91-22-26701144/55  
E-mail : Ventures.united@gmail.com

- 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  
The substance is not classified according to the CLP regulation.
- Classification according to Directive 67/548/EEC or Directive 1999/45/EC Not applicable.
- Information concerning particular hazards for human and environment: Not applicable.
- Label elements
- Labelling according to Regulation (EC) No 1272/2008 : Void
- Hazard pictograms : Void
- Signal word : Void
- Hazard statements : Void
- Other hazards
- Results of PBT and vPvB assessment
- PBT : Not applicable.
- vPvB: Not applicable.

## SECTION III. COMPOSITION AND INFORMATION ON INGREDIENTS

- Chemical characterization: Substances
  - CAS No. Description  
4193-55-9 disodium 4,4'-bis[6-anilino-[4-[bis(2-hydroxyethyl)amino]-1,3,5-triazin-2-yl]amino]stilbene-2,2'-disulphonate.
- Identification number(s)  
224-073-5
- Additional information:  
Molecular formula C40-H42-N12-O10-S2.2Na  
Molecular Weight: 961.04
  - SVHC The substance is not in the list of SVHC substances

## SECTION IV. FIRST AID MEASURES

- Description of first aid measures
- General information:  
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- After inhalation  
Supply fresh air; consult doctor in case of complaints.
- After skin contact:  
Seek immediate medical advice.  
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:  
Call for a doctor immediately.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- 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 : No further relevant information available
- Advice for firefighters  
Wear suitable protective clothing to avoid contact with skin.  
Wear self-contained respiratory protective device.
- Protective equipment  
Fire fighters should wear positive self contained breathing apparatus.

#### SECTION VI. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures  
Wear protective equipment. Keep unprotected persons away.
- Environmental precautions  
Do not allow product to reach sewage system or any water course.
- Methods and material for containment and cleaning up:  
Dispose contaminated material as waste according to item 13.
- 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

- Handling
  - Precautions for safe handling Keep away from heat and direct sunlight.
  - Information about fire - and explosion protection: Keep ignition sources away - Do not smoke.
- Conditions for safe storage, including any incompatibilities
- Storage
  - Requirements to be met by storerooms and receptacles: Provide adequate ventilation/exhaustion.
  - Information about storage in one common storage facility: Not required.
  - Further information about storage conditions: Keep container tightly sealed.
  - Specific end use(s) It is used as a fluorescent brightening agent.

#### SECTION VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Additional information about design of technical facilities: No further data; see item 7.
- Control parameters
- Ingredients with limit values that require monitoring at the workplace: Not required.
- 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  
Self-contained respiratory protective device.
- Protection of hands:
  - Protective gloves  
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
  - 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. Nitrile rubber, NBR



- 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.

Break through time: > 480 min

Glove thickness: 0.35 mm

- Eye protection:  
Tightly sealed goggles
- Body protection  
Use protective clothes as required.

#### SECTION IX. PHYSICAL AND CHEMICAL PROPERTIES

##### Appearance

Form	Powder
Colour	Yellow to Greenish
Odour	Characteristic
pH-value	8.-11 (1% soln)

##### Change in Conditions

Melting point/Melting range --

Boiling point/Boiling range --

Flash point Not applicable

Flammability (solid, gaseous) Not highly flammable

Self-igniting Product does not show self ignition.

Danger of explosion Product does not present an explosion hazard

Density at 20°C 0.4 - 0.6 g/cm<sup>3</sup> (Bulk density)

Solubility in/Miscibility with water at 60°C Soluble - 100g/L at 100°C

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  
Heat, flame and other sources of ignition
- Incompatible materials  
Avoid contact with strong oxidizing agents.
- Hazardous decomposition products  
No dangerous decomposition products known.

#### SECTION XI. TOXICOLOGICAL INFORMATION

- Information on toxicological effects
- Acute toxicity:
- LD/LC50 values relevant for classification:

Oral	LD50	> 5000mg/kg (rat)
Inhalative	LC50	> 1895 mg/m <sup>3</sup> air (rat)
Dermal	LD50	> 2000 mg/kg (rat)

Primary irritant effect:

- On the skin:  
Irritant to skin and mucous membranes.  
TYPE OF TEST : Standard Draize test  
ROUTE OF EXPOSURE : Administration onto the skin  
SPECIES OBSERVED : Rodent - rabbit  
DOSE/DURATION : 500 mg/24H REACTION SEVERITY : Mild

- On the eye:  
Irritating effect.  
TYPE OF TEST : Standard Draize test  
ROUTE OF EXPOSURE : Administration into the eye  
SPECIES OBSERVED : Rodent - rabbit  
DOSE/DURATION : 100 mg  
REACTION SEVERITY : Moderate



- Sensitization: No sensitizing effects known.
- Acute effects (acute toxicity, irritation and corrosivity)  
Skin- Rabbit-0.5g / 4 hr. = not irritating  
Eye- Rabbit- 0.1g / 1-7 days = not irritating
- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)  
Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65

## SECTION XII. ECOLOGICAL INFORMATION

### Aquatic Toxicity

LC50(96 hrs) (static)	27 mg/L (Brachydanio rerio (Fish, Freshwater))
LC50(static)	1000 mg/l (Brachydanio rerio (Zebra Barbel))

- Persistence and Degradability  
Moderately /partly biodegradable
- Behaviour in environmental systems:
- Bioaccumulative potential The product is not expected to be bioaccumulative .
- Mobility in soil No further relevant information available.
- Ecotoxicological effects:
- Remark: Bacteria toxicity: >100 mg/l (3 h) Method: OECD 209
- 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  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.  
Dispose off waste material according to local, state and federal regulations.
- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

## SECTION XIV. TRANSPORTATION INFORMATION

- UN-Number
- ADR, ADN, IMDG, IATA
- UN proper shipping name
- ADR, ADN, IMDG, IATA
- Transport hazard class(es)
- ADR, ADN, IMDG, IATA
- Class
- Packing group
- ADR, IMDG, IATA
- Environmental hazards:
- Marine pollutant:
- Special precautions for user
- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
- 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
- Signal word Warning
  
- Hazard-determining components of labelling: Please refer section 2
- Hazard statements Please refer section 2
- Precautionary statements Please refer section 2
  
- Chemical safety assessment:  
A Chemical Safety Assessment has not been carried out and shall be available at the time of REACH registration.

## 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.

- Department issuing MSDS:  
Product safety department.
- Contact:  
Tel +91-22-26701144/55  
E-mail ventures.united@gmail.com

- Abbreviations and acronyms:  
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
ICAO: International Civil Aviation Organization  
GHS: Globally Harmonized 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

- 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 ECHA Dossier 4193-55-9

<http://apps.echa.europa.eu/registered/data/DISS-9eb7388f-740a-161a-e044-00144f67d031/index.html>

Data from SIDS

<http://webnet.oecd.org/Hpv/UI/handler.axd?id=30f9010d-72fe-4ec6-9391-808723d7a394>

Chemcas msds <http://www.chemcas.com/msds/cas/msds127/4193-55-9.asp>

\* Data compared to the previous version altered.

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.  
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Section 10: Stability and Reactivity.  
Section 11: Toxicological Information.  
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