

Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Optical Brightener OB-1
Product Code Benzoxazole, 2,2'- (1, 2-Ethenediyldi-4, 1-Phenylene) Bis
Synonyms Fluorescent Brightener 393 (FB 393) ,C.I.393 ,Fluorescent Brightener OB-1
Formula C28H18N2O2
CAS Number 1533-45-5
Contact
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2. HAZARDS IDENTIFICATION

Appearance Yellow, Powder.	Emergency Overview May be harmful if swallowed. Irritant.Physical State Solid. Odor Not available
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OSHA Regulatory Status This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Mexico - Grade Not available

Potential Health Effects

Principle Routes of Exposure Not available

Acute Effects

Eyes Irritating to eyes. Avoid contact with eyes.

Skin May be harmful in contact with skin. Irritating to skin. Avoid contact with skin.

Inhalation May be harmful by inhalation. Irritating to mucous membranes. Irritating to respiratory system.
Ingestion May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Chronic Effects Avoid repeated exposure.

See Section 11 for additional Toxicological information.

Aggravated Medical Conditions Not available

Interactions with Other Chemicals Not available

Potential Environmental Effects There is no known ecological information for this product.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS Number 1533-45-5

Formula C₂₈H₁₈N₂O₂

Hazardous Components

Chemical Name	CAS-No	Weight %
Optical Brightener Ob-1	1533-45-5	60 - 100

4. FIRST AID MEASURES

General Advice Eye Contact Show this safety data sheet to the doctor in attendance. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician.

Skin Contact Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. Consult a physician.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Consult a physician.

Ingestion Rinse mouth. Never give anything by mouth to an unconscious person. Consult a physician.

Notes to Physician Treat symptomatically.

Protection of First-aiders Use personal protective equipment. Avoid contact with skin, eyes and clothing.

5. FIRE-FIGHTING MEASURES

Flammable Properties Not available

Suitable Extinguishing Media Unsuitable

Water spray. Carbon dioxide (CO₂). Dry powder. Foam. Not available

Extinguishing Media Hazardous

Thermal decomposition or combustion may produce hazardous gases and/or materials.

Combustion Products

Explosion Data

Sensitivity to mechanical impact

Not available

Sensitivity to static discharge

Not available

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

NFPA

Health 1 Flammability 0 Instability 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. In case of insufficient ventilation, wear suitable respiratory equipment.

Environmental Precautions

Local authorities should be advised if significant spillages cannot be contained.

Methods for Containment

Not available

Methods for Cleaning up

Evacuate personnel to safe areas. Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Clean contaminated surface thoroughly.

Other Information

Not applicable

7. HANDLING AND STORAGE

Handling

Use only in an area equipped with a safety shower. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation. Do not breathe vapors/dust. Avoid contact with skin, eyes and clothing. Avoid repeated exposure.

Storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labelled containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Controls

Ensure adequate ventilation, especially in confined areas

Personal Protective Equipment

Eye/face Protection	Tightly fitting safety goggles.
Skin Protection	Protective gloves.
Respiratory Protection	In case of insufficient ventilation wear suitable respiratory equipment.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Yellow, Powder
Physical State	Solid
Odor	Not available
pH	Not available
Flash Point	Not available
Autoignition Temperature	Not available
Boiling Point/Range	Not available
Melting Point/Range	357 - 359°C
Flammability Limits in Air	Lower Not available Upper Not available
Vapor Pressure	Not available
Vapor Density	Not available
Specific Gravity	1.39g/cm ³ @25°C
Water Solubility	Insoluble
Reactivity in Water	Not available
Molecular Weight	414.47

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions.
Conditions to Avoid	Heat, flames and sparks.
Incompatible Materials	Strong oxidizing agents.
Hazardous Decomposition Products	Carbon monoxide, Carbon dioxide (CO ₂), Nitrogen oxides (NO _x).
Possibility of Hazardous Reactions	None under normal processing

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

To the best of our knowledge, the complete toxicological properties have not been thoroughly investigated.

Chronic Toxicity

Carcinogenicity

There are no known carcinogenic chemicals in this product.

Irritation	Not available
Corrosivity	Not available
Sensitization	Not available
Neurological Effects	Not available
Mutagenic Effects	Not available
Reproductive Effects	Not available
Developmental Effects	Not available
Target Organ Effects	Not available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

Persistence / Degradability Not available

Bioaccumulation / Accumulation Not available

Mobility in Soil Not available

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Contact waste disposal services. Dispose of in accordance with local regulations.

Contaminated Packaging Dispose of in accordance with local regulations. Empty containers should be taken for local recycling, recovery or waste disposal.

US EPA Waste Number Not available

14. TRANSPORT INFORMATION

DOT Not regulated

TDG Not regulated

MEX Not regulated

ICAO Not regulated

IATA Not regulated

IMDG/IMO Not regulated

RID Not regulated

ADR Not regulated

ADN Not regulated

15. REGULATORY INFORMATION

International Inventories

U.S.A. (TSCA)	Complies
Canada (DSL)	Complies
EU (ELINCS)	Does not Comply
EU (EINECS)	Complies
Japan (ENCS)	Complies
China	Complies
Korea (KECL)	Complies
Philippines (PICCS)	Complies
Australia (AICS)	Complies

Chemical Name	U.S.A. (TSCA)	Canada (DSL)	EU (EINECS)	EU (ELINCS)
Optical Brightener OB-1	Present	Present	216-245-3	-

USA

Federal Regulations SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)
This product does not contain any HAPs.

State Regulations California

Proposition 65

This product does not contain any Proposition 65 chemicals.

State Right-to-Know Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

Not determined

16. OTHER INFORMATION

Prepared By Environmental Health and Safety, Regulatory Affairs

Preparation Date 03-Aug-2007

Revision Date 07-Aug-2007

Revision Summary Not available

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS