

MATERIAL SAFETY DATA SHEET

1. PRODUCT IDENTIFIER

NAME: OPTIBRITE 110 Fluorescent Brightener SOLUTION

SYNONYMS: C.I. Fluorescent Brightener 220; C.I. F.B. 220,
Stilbene Triazine fluorescent brightener,

Tetrasodium 4,4'-bis [[4-[bis(2-hydroxyethyl)amino]-6-(4-sulphonatoanilino)-1,3,5-triazin-2 yl]amino]stilbene-2,2'-disulphonate]

Molecular formula: C₄₀H₄₄N₁₂O₁₆S₄•4Na

CAS No: 16470-24-9

EINECS No: 240-521-2

MANUFACTURER: CPT Pulp and Paper, LLC
P.O. Box 2275
102 Old Mill Road
Cartersville, Georgia 30120-1688
Telephone: 770-606-8166

EMERGENCY: CHEMTREC, 800-424-9300 (24 Hours every day)

2. INFORMATION ON INGREDIENTS

<u>COMPONENT</u>	<u>CAS #</u>	<u>EXPOSURE LIMITS</u>	<u>% BY WT</u>
Stilbene triazine Adduct	16470-24-9	OSHA PEL: Not Listed ACGIH TLV-TWA: Not Listed	ca 27
Water	7732-18-5		ca 73

3. HAZARDS IDENTIFICATION

Appearance: Dark yellowish-green liquid

WARNING! May cause skin irritation and/or dermatitis
[R 36/37/38].

May cause allergic skin reaction.

Causes digestive and respiratory tract irritation.

When using do not eat or drink. [S 20].

Wash thoroughly after handling.

Wash hands before eating.

Remove contaminated clothing and wash before reuse.

Avoid breathing mist or dust. Use only with adequate ventilation.

Routes of Exposure: **Skin Contact**, Ingestion, possibly inhalation.

OPTIBRITE 110 SOLUTION**POTENTIAL HEALTH EFFECTS:****Target Organs:** None known.**Eye:** Causes eye irritation.**Skin:** Causes skin irritation. May cause allergic skin reaction.**Ingestion:** Causes gastrointestinal irritation with nausea and vomiting, headache, dizziness, tiredness.**Inhalation:** Causes respiratory tract irritation.**Chronic:** May include moderate to severe erythema (redness) and moderate edema (raised skin), nausea, vomiting, headache.**Carcinogenicity:** NTP.....: Not listed.
IARC.....: Not listed.
ACGIH.....: Not listed.
CA Proposition 65..: Not listed.
OSHA.....: Not regulated as a carcinogen.**Medical Conditions Aggravated by Exposure:** None are known.

4. FIRST AID MEASURES**General advice:** In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).**Eye:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.**Skin:** Immediately flush skin with plenty of water while removing contaminated clothing and shoes. Wash skin with soap and water. Wash clothing before reuse. Seek medical attention if irritation develops or persists.**Ingestion:** Wash out mouth with water if victim is conscious and alert, give 2-4 cupfuls of milk or water and induce vomiting. Never give anything by mouth to an unconscious person. Get medical aid.**Inhalation:** Remove from exposure and move to fresh air immediately. If breathing is difficult, get medical aid.**Note to Physician:** Treat symptomatically and supportively.

OPTIBRITE 110 SOLUTION

5. FIRE FIGHTING MEASURES

General Information: As in any fire, wear a self-contained breathing apparatus (NIOSH approved or equivalent), and full protective gear. During a fire, irritating and toxic gases may be generated by thermal decomposition and incomplete combustion. Water mist may be used to cool closed containers.

Extinguishing Media: Any extinguishing media is suitable - use water, dry chemical, chemical foam, or CO₂.

Explosion Limits:

Lower: Not applicable.

Upper: Not applicable

Flashpoint: Above 100° C **Autoignition Temperature:** Not determined.

General Hazard: If intense heat evaporates all water from this product - Burning of Optibrite 110 produces irritant fumes - possibly including Nitrogen oxides - (NO_x)/ammonia/CN⁻, and Sulfur oxides.

Fire Fighting Instructions: Prevent water runoff likely to contain this material from entering drains.

Fire Fighting Equipment: No special equipment is required. Wash away any of this product which may contact the body, clothing, or equipment.

Hazardous Combustion Products: Carbon monoxide and other toxic gases may be generated from incomplete combustion.

6. ACCIDENTAL RELEASE MEASURES

General: Use appropriate Personal Protective Equipment (PPE). Contain the spilled material and clean up spills immediately.

USE ANY INDUSTRIAL ABSORBANT TO ABSORB SPILLED LIQUID. Carefully shovel up or sweep up spilled material and place in suitable container for disposal. Prevent material from entering storm sewers or ditches leading to natural waterways. Dispose of large amounts of this material in an approved landfill.

7. HANDLING AND STORAGE

Storage Temperature and Pressure: Ambient. Store in a cool place.

General: Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation of mist. Keep container closed when not in use. Use with adequate ventilation.

OPTIBRITE 110 SOLUTION

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility. Use adequate general or local exhaust ventilation to keep airborne mist concentrations below permissible nuisance dust / mist exposure limits.

Respiratory Protection: Use a NIOSH-approved dust mask if excessive mist may be present.

Skin Protection: Cover exposed skin areas and wear general-purpose gloves.

Eye Protection: Wear safety glasses with side shields.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: LIQUID - with a dark yellowish-green color

Vapor Pressure: Same as Water.

Specific Gravity: Approximately 1.17

Solubility in Water: Not applicable - this product is an aqueous solution.

pH: About 9.3

Boiling Point:: Approximately 100° C for this product. After evaporation of all water, solid melts and decomposes at about 330°C.

Freezing/Melting Point:: Approximately 0° C (freezing point of water)

Vapor Density: Not determined.

Evaporation Rate: Same as Water

Odor: None.

Appearance: Dark yellowish-green colored liquid.

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under recommended storage conditions and at normal temperatures and pressures. Keep away from intense heat.

Incompatibility: Strong oxidizing agents.

OPTIBRITE 110 SOLUTION

Hazardous Decomposition Products: Nitrogen oxides - (NO_x)/ammonia/CN- ,
Sulfur oxides, Sodium oxides (Na₂O)

Hazardous Polymerization: Does not occur.

11. TOXICOLOGICAL INFORMATION

For CAS # 16470-24-9 - Oral LD₅₀ Rat : 5300 mg/kg = 19.6 g/kg for this product

Chronic toxicity: Chronic exposure may cause nausea and vomiting, higher exposure causes unconsciousness.

Local effects: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Specific effects: May include moderate to severe erythema (redness) and moderate edema (raised skin), nausea, vomiting, headache.

Carcinogenic effects: No indication of carcinogenic effects.

Mutagenic effects: No data is available.

Reproductive toxicity: No adverse effects in rats on reproductive performance and offspring growth and development at 1000 mg/kg/day.

12. ECOLOGICAL INFORMATION

Mobility: No data available

Bioaccumulation: No data available

Ecotoxicity effects: No data available

Aquatic toxicity: May cause long-term adverse effects in the aquatic environment.

13. WASTE MANAGEMENT INFORMATION - DISPOSAL

Do not dump into sewers, on the ground, or into any body of water. If discarded, this product would not be a hazardous waste under US EPA guidelines in 40 CFR Parts 261.3. Chemical waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification; any disposal practice must be in compliance with local, state, and federal laws and regulations.

14. TRANSPORT INFORMATION

D.O.T. Shipping Name..: This product is not regulated as a D.O.T. hazardous material..

OPTIBRITE 110 SOLUTION

D.O.T. Hazard Class..... : None.

U.N./N.A. Number..... : None.

Product R.Q. (lbs)..... : None.

Product Label..... : CPT OPTIBRITE 110 SOLUTION

15. REGULATORY INFORMATION

TSCA: Listed -HPV Challenge Program Chemical List - ETAD North America sponsored - one in the category of Stilbene fluorescent brighteners

TSCA Significant New Use Rule: Not subject to a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs - None

SARA Section 302 Extremely Hazardous Substances - None

SARA Codes CAS # 16470-24-9: immediate.

Section 313: No chemicals in this product are reportable under Section 313.

Clean Air Act:

This product does not contain any hazardous air pollutants.

This product does not contain any Class 1 Ozone depleters.

This product does not contain any Class 2 Ozone depleters.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

European Labeling in Accordance with EC Directives:

Hazard Designation: Xi Irritant

Risk Phrases: R 36/37/38 Irritating to eyes, respiratory system and skin.

WGK (German water hazard classification system)

Not Listed

IMDG/IMO

IMDG - Hazard Classifications: Not Applicable

TDG Canada - WHMIS

Not Controlled.

RCRA Status: See Section 13 above. Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing this product or derived from this product should be classified as a hazardous waste under 40 CFR 261.20-24.

16. OTHER INFORMATION

NFPA Rating (National Fire Protection Association):

Health - 1 (Exposure could cause irritation but minor residual injury even if no treatment is given.)

Fire - 1 (Materials which will burn in air when exposed to a temperature of 1500° F).

Reactivity - 0 (Materials which in themselves are normally stable even under fire exposure conditions, and which are nor reactive with water).

Special - NA

Reason for Issue.....: New product

Prepared by.....: Jerry A. Cook.

Title.....: Technical Director.

Approval Date..... : August, 2008.

Supersedes Date.....: None

MSDS Number.....: 103.

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