



Ciba

Material Safety Data Sheet

TINOPAL ABP-A LIQ

Value beyond chemistry

MSDS No: 51

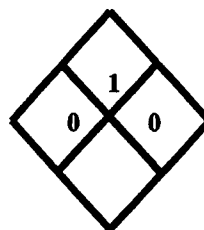
Date Printed: 06/26/00

Effective Date: 9/3/99

1. PRODUCT IDENTIFICATION

Chemical Family: Triazinyl Stilbene

Intended Use: Whitening Agent for Cellulosic Paper Fiber



NFPA RATING

Health	0
Flammability	1
Reactivity	0
Protective Equipment	D

HMIS RATING

Product Name(s):

TINOPAL ABP-A LIQ 1985#
TINOPAL ABP-A LIQ 2204#
TINOPAL ABP-A LIQ 441#
→ TINOPAL ABP-A LIQ BULK

Product Code:

1497232FO
1497232UR
1497232UU
1497232AA

2. COMPOSITION / INFORMATION ON INGREDIENTS

CAS No.
16470-24-9

Common Name:
Stilbene fluorescent brightener

ACGIH/PPM
TWA STEL
None None

OSHA/PPM
PEL % by Wt.
None 22 - 24

Dermal: Not evaluated
Inhalation: Not evaluated
Ingestion: Not evaluated

3. HAZARDS IDENTIFICATION

Route(s) of Entry: Dermal and inhalation.

Potential Health Effects: None known

Carcinogenicity (NTP): Not listed.

Carcinogenicity (IARC): Not listed.

Carcinogenicity (OSHA): Not listed.

4. FIRST AID MEASURES

Ingestion: If conscious, give plenty of water to drink. Get medical attention. If unconscious, do not give anything to drink. Get immediate medical attention.

Skin: Immediately flush skin with plenty of water. Remove contaminated clothing. Wash clothing before reuse.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Eyes: Flush eyes with water for at least 15 minutes. Get medical attention.

5. FIRE FIGHTING MEASURES

Flash Point:	> 200° F (> 93 ° C)
Flash Point Method Used:	ASTM D56 (Tag Closed Cup)
Flammable Limits in Air (Lower - % by volume):	Not evaluated
Flammable Limits in Air (Upper - % by volume):	Not evaluated
Auto-Ignition Temperature:	Not evaluated
TDG Flammability Class (Canada):	TDG Classification in Sect. 14

General Hazards: None known.

Fire Fighting Equipment: Use self contained breathing apparatus

Fire Fighting Extinguishing Media: Carbon dioxide, dry chemical, foam, water.

Fire and Explosion Hazards: No unusual hazards.

Hazardous Combustion Products: Burning may produce oxides of carbon, nitrogen or sulfur.

Explosive Data-Sensitivity to Mechanical Impact: Not evaluated.

Explosive Data-Static Discharge: Not evaluated.

Emergency Response Guidebook Information: None

6. ACCIDENTAL RELEASE MEASURES

Accidental Release Measures: Soak up with inert absorbent material. Shovel into closable container for disposal. Wear protective equipment specified in Section 8.

7. HANDLING AND STORAGE

NOTICE! Handle with care. Avoid ingestion, inhalation, eye and skin contact. Keep container closed. For industrial use only.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal Protective Equipment: Wear appropriate equipment to prevent probability of exposure and personal contact. Deluge safety shower and eye wash should be located near work area.

Eye Protection: Wear splash-proof chemical goggles.

Skin Protection: Rubber gloves should be worn.

Respiratory Protection: Use NIOSH approved respirator where there is likelihood of inhalation of the product mist.

Engineering Controls: Local exhaust recommended, mechanical exhaust acceptable.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form:	Liquid
Color:	Yellow
Odor:	Odorless
Odor Threshold:	Not evaluated
Solubility in Water:	Miscible
Vapor Pressure:	Not evaluated
Specific Gravity:	1.14
Boiling Point:	> 100° C (> 212 ° F)
Melting Point:	Not evaluated
Freezing Point:	Not evaluated
Decomposition Temperature:	Not evaluated
Evaporation Rate:	Not evaluated
Bulk Density:	Not evaluated
Vapor Density:	Not evaluated
VOC:	0 % (EPA Method 24/24A)
pH:	9 - 10.6
Coefficient of water/oil:	Not evaluated

Volatile(s): 71.9 (no volatile organics; vapor is water only)

10. STABILITY AND REACTIVITY

Stability: Stable

Incompatibility: None known.

Hazardous Decomposition Products: Burning may produce oxides of carbon, nitrogen or sulfur.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Eye Irritation: (Rabbits) not an irritant

Skin Irritation: (Rabbits) not an irritant

Inhalation Toxicity: (Rats) LC50 > 17,600 mg/m3

Sensitization: RIPT (Humans) - Not a primary irritant, fatiguing agent or sensitizer

Chronic/Carcinogenicity: Not evaluated.

Teratology: Not evaluated.

Reproduction: Not evaluated.

Mutagenicity: Not evaluated.

Acute Oral Effects: (Rats) LD50 > 15,380 mg/kg

Acute Dermal Toxicity: (Rabbits) LD50 > 3,000 mg/kg

Additional Information: *Note: The toxicology data is based on a product of comparable composition.

12. ECOLOGICAL INFORMATION

Biodegradability: Not evaluated

Ecotoxicity: Bluegill LC50 > 1,000 mg/l (96 HR)

Biological Oxygen Demand (BOD5): < 0.01 g/g

Chemical Oxygen Demand (COD): 0.23 g/g

Activated Sludge Respiration Inhibition Test: No inhibition @ 300 mg/l

Additional Information: None

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Bury or incinerate in approved site or facility in accordance with local, state (provincial) and federal regulations.

Container Disposal Information: Emptied container may contain product residue and should not be reused.

RCRA Hazard Class: Refer to Section 15: Regulatory Information for RCRA status.

14. TRANSPORT INFORMATION

DOT:

Proper Shipping Name: Not Regulated

IATA:

Proper Shipping Name: Not Regulated

IMDG:

Proper Shipping Name: Not Regulated

TDG:

Proper Shipping Name: Not Regulated

15. REGULATORY INFORMATION

US Federal Regulations:

Chemical Weapons Convention (CWC): This product does not contain any chemicals listed under the Chemical Weapons Convention Schedule of Chemicals.

Clean Air Act -Hazardous Air Pollutants (HAP): This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

Clean Air Act - Ozone Depleting Substances (ODS): This product neither contains, nor was manufactured with, a Class I or Class II ozone depleting substance (ODS), as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App. A+B).

Clean Water Act - Priority Pollutants (PP): This product does not contain any priority pollutants listed under the U.S. Clean Water Act Section 307 (2)(1) Priority Pollutant List (40 CFR 401.15).

Occupational Safety and Health Act (OSHA): This product is not considered to be a hazardous chemical under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Resource Conservation and Recovery Act (RCRA): This product is not considered to be hazardous waste under RCRA (40 CFR 261).

SARA Title III: Section 302 - Extremely Hazardous Substances (EHS): This product does not contain any chemicals regulated under Section 302 (40 CFR 355) as extremely hazardous substances.

SARA Title III: Section 304 - CERCLA: This product does not contain any chemicals regulated under Section 304 (40 CFR 302) as hazardous chemicals for emergency release notification ("CERCLA" List).

SARA Title III: Section 311/312 - Hazard Communication Standard (HCS): This product is not regulated under Section 311-312 (40 CFR 370).

SARA Title III: Section 313 Toxic Chemical List (TCL): This product does not contain any chemicals for routine annual toxic chemical release reporting under Section 313 (40 CFR 372).

TSCA Section 5(e) - Consent Order / SNUR: This product is not subject to a Section 5(e) Consent Order or Significant New Use Rule (SNUR).

TSCA Section 8(b) - Inventory Status: All chemical(s) comprising this product are either exempt or listed on the TSCA inventory.

TSCA Section 12(b) - Export Notification: This product does not contain any chemical(s) that are subject to a Section 12(b) export notification.

International Regulations:

Canadian Inventory Status: This product contains only chemicals that are currently listed on the Canadian Domestic Substance List.

Canadian WHMIS: This product does not contain any chemicals listed on the Canadian WHMIS Ingredient Disclosure List.

State Regulations:

California Proposition 65: This product does not contain any chemicals currently on the California list of Known Carcinogens and Reproductive Toxins.

Massachusetts Right-to-Know: The following is required composition information:

Chemical Name: Pentanedial

CASRN: 111-30-8

Percent in Composition: 1.0101 % by wt

New Jersey Right-to-Know: The following is required composition information:

Chemical Name: Pentanedial

CASRN: 111-30-8

Chemical Name: Benzenesulfonic acid, 2,2'-(1,2-ethenediyl)bis[5-[[4-[bis(2-hydroxyethyl)amino]-6-[(4-sulfophenyl)amino]-1,3,5-triazin-2-yl]amino]-, tetrasodium salt

CASRN: 16470-24-9

Pennsylvania Right-to-Know: The following is required composition information:

Chemical Name: Benzenesulfonic acid, 2,2'-(1,2-ethenediyl)bis[5-[[4-[bis(2-hydroxyethyl)amino]-6-[(4-sulfophenyl)amino]-1,3,5-triazin-2-yl]amino]-, tetrasodium salt

CASRN: 16470-24-9

Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Pentanedial

CASRN: 111-30-8

Comment: Hazardous Substance

16. OTHER INFORMATION

MSDS No:	51
Prepared By:	Reba Lemons
Approved By:	Frances E. Knight
Title:	Manager, Product Registration
Approved Date:	09/03/99
Supersedes Date:	04/28/99

Revision Summary: Changes in Section(s): 9 & 15

Disclaimer: For further information, please contact:

Product Stewardship Team:

Phone: (336) 801-2373

Fax: (336) 801-2056

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind expressed or implied is made with respect to the information contained herein. This material safety data sheet was prepared to comply with the OSHA Hazard Communication Standard (29 CFR 1910.1200) and with the Workplace Hazardous Materials Information System (WHMIS).

This supersedes any previous information.