

MATERIAL SAFETY DATA SHEET



HMIS RATINGS: HEALTH: 1 FIRE: 1 REACTIVITY: 0 PERSONAL PROTECTION: H

SECTION 1: PRODUCT IDENTIFICATION

Product I.D.: 91502841
Product Name: KEYFLUOR WHITE ST LIQ
Product Description: Liquid Optical Brightener
Chemical Family: Stilbene-triazine derivative
Effective Date: March 1, 2006

SECTION 2: OSHA HAZARDOUS INGREDIENTS

Component	CAS Number	Wt %	OSHA - PEL	ACGIH - TLV	Recommended PEL
Blended Ethanol	Mixture	1 - 10%	1000 ppm TWA (Ethyl alcohol)	1000 ppm TWA (Ethyl alcohol)	Not applicable
Optical brightener 91502848	Undisclosed	60 - 70%	Not established	Not established	Lowest achievable exposure

Important Notice:

Ingredients listed in Section 2 are hazardous, per OSHA regulation 29 CFR 1910.1200 and appendices (unless noted non-hazardous for disclosure). Ingredients not listed are confidential, non-hazardous, and/or below reportable limits. Confidential information is available to medical and emergency personnel upon request. Correctly using ALL PROTECTIVE EQUIPMENT & CLOTHING listed in Section 8 MAY MINIMIZE OR ELIMINATE contact or possible health effects. Follow all MSDS instructions. A CAUTIOUS APPROACH TO WARNINGS & SAFETY IS TAKEN ON THIS MSDS. NOTE: Health effects from UNPROTECTED contact with chemicals may be unpredictable, depending on individual reactions or sensitivity. Color & chemical hazards are relative, depending on the amount present in finished product. Product end-user or formulator is responsible for hazard determination and communication.

SECTION 3: HAZARD IDENTIFICATION AND EMERGENCY OVERVIEW

Emergency Overview:

Eye-respiratory-skin irritant.

Eye Contact:

Depending on form, degree, and length of UNPROTECTED eye contact with product dust, liquid, splashes, vapors or other forms of product may cause one or more of health effects: MODERATE EYE IRRITATION, pain, redness, stinging sensation, swelling, watering, inflammation, itching, burning sensation. With heavy contact, severe irritation, clouding of cornea and damage to eyes are possible. Heated processing of liquids that creates mists or vapors may intensify these effects.

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Skin Contact:

Depending on product form, strength, degree, and length of UNPROTECTED exposure, the vapors, mists, splashes, aerosols, or dusts of product or components can cause one or more health effects: MODERATE IRRITATION to unprotected skin, redness, rash, itching, burning sensation, localized fluid build-up, drying, cracking, pain, sores, discoloration. Absorption through unprotected skin can cause nausea, headache, general discomfort, adding to effects from other exposures. Prolonged or repeated exposure may increase severity of any symptoms and cause dermatitis (inflammation). Sensitive or already sensitized individuals may experience allergic skin reactions with repeated or long-term contact. Repeated exposure to powdered product may cause abrasion (wearing away) of skin.

Inhalation:

Depending on strength of product and length of exposure, UNPROTECTED inhaling of product or component vapors, mists, aerosols, or dusts may cause one or more health effects: MODERATE IRRITATION of nose/throat/lungs/mucous membranes, headache, dizziness, coughing, chest pain, shortness of breath, hoarseness, runny nose, nausea, mucous production, bronchitis, laryngitis, limb weakness, incoordination, confusion, vomiting. REPEATED OR PROLONGED inhalation may increase effects to SEVERE. High workplace temperature or heated processing can worsen effects. Inhalation of dusts or mists of product may be damaging to lungs if over-exposed.

Ingestion:

Depending on amount swallowed, product or components can cause one or more health effects: Headache, gastrointestinal irritation, upset stomach, abdominal pain, nausea, vomiting (material aspirated into lungs during vomiting IS A MEDICAL EMERGENCY, may injure lungs), diarrhea, MODERATE IRRITATION of mouth, throat, esophagus, stomach, entire gastrointestinal tract, abdominal pain, CNS (Central Nervous System) depression including mental sluggishness, mental confusion, fatigue, weakness, dizziness, drowsiness, faintness, with high dose, severe irritation, incoordination, intoxication, other serious effects.

Medical Conditions Aggravated by Exposure:

UNPROTECTED or IMPROPERLY PROTECTED exposure to vapors, mists, aerosols, splashes or dusts of full strength product or its components by inhalation, eye contact, skin contact or swallowing MAY AGGRAVATE one or more of the following pre-existing medical conditions: Respiratory (breathing related) problems (asthma, allergies, etc.), skin conditions, or disorders, eye conditions or disorders, kidney disorders, liver disorders. Avoid ALL exposures. Individuals with any of the above-noted conditions, or with any known or suspected chemical sensitivities or allergies should avoid working with or being exposed to any chemicals.

Skin Sensitization:

The possibility of developing skin sensitization from unprotected exposure to this product or its components HAS NOT BEEN DETERMINED. Skin effects from repeated exposure may appear in sensitive individuals not previously known to be hypersensitive or allergic. Avoid ALL exposures, as a precaution. Follow all supervisor instructions and all directions in Section 8 for personal health protection.

Respiratory Sensitization:

The possibility of respiratory sensitization caused by inhalation exposure to product dusts, vapors, mists or aerosols HAS NOT BEEN DETERMINED. As a precaution against unknown effects on existing respiratory conditions, hypersensitivity, allergic reactions, or other unforeseen health effects, be sure to read, understand and follow all supervisor instructions, AND instructions for wearing Personal Protective Equipment and clothing in Section 8 of this MSDS. Avoid unprotected inhalation of product in any form. ALLERGIC REACTIONS and SENSITIVITY depend on the individual, and CAN BE UNPREDICTABLE, especially if unknown to the individual and unexpected.

Special Warnings:

None for this material

Unusual Health Hazards:

None for this material

Supplemental Hazard Information:

No additional information available

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Notes to Physician:

No notes available

Cancer Information:

*** Not known to contain carcinogens ***

SECTION 4: FIRST AID INSTRUCTIONS**Eye Contact:**

Immediately rinse with plenty of water for at least 15 minutes. Get immediate medical attention, as a precaution.

Skin Contact:

Immediately remove contaminated clothing. Wash affected area with soap and rinse with plenty of water. Get medical attention, as a precaution.

Inhalation:

Move person to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration, and get emergency medical help immediately. Have this Material Safety Data Sheet available.

Ingestion:

Do not induce vomiting unless directed to do so by emergency medical personnel. Have this Material Safety Data Sheet available.

SECTION 5: FIRE FIGHTING INSTRUCTIONS**Flash Point:**

Not applicable

Auto-ignition Temperature:

Not applicable

LEL:

Not applicable

UEL:

Not applicable

Unusual hazards:

None expected

Other Hazards:

None known

Types of Extinguishers:

CO2, dry chemical, foam, water fog or spray depending on type of fire

Fire Fighting Directions:

Wear self-contained breathing equipment and fire-proof clothing. Use water spray to cool fire exposed containers if they cannot be safely moved.

SECTION 6: ACCIDENTAL SPILL OR RELEASE INSTRUCTIONS**Special Precautions:**

None known. Follow general precautions shown below.

Reporting:

Check the RQ

Static Discharges:

Take precautionary measures against static discharges when mixing, filling or otherwise dispensing any powders, combustibles, or flammable liquids. Containers should be properly grounded with metal straps, cables or other appropriate means to relieve static electricity build-up.

Environmental Protection:

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Immediately dike liquid spills with inert absorbent material (sand, "Oil Dry" or other commercially available spill absorbent) to contain and soak up liquid. Prevent material from entering floor drains, sewers, or any bodies of water. For powder spills, use sweeping compound, sawdust, or other appropriate material to contain dust. If possible, recover any uncontaminated materials to re-use.

Protective equipment and clothing:

Wear all proper personal protective equipment and clothing to care for spill situation. See section 8 of this MSDS.

Clean up:

After containing spill by diking and soaking up with inert absorbent material, place in labeled container to be sealed for proper and regulated disposal. Save uncontaminated material for reuse whenever possible. Do not allow any liquid to seep into drains, sewers, lakes, rivers, etc.

SECTION 7: HANDLING AND STORAGE**Warnings and Precautions:**

No special precautions anticipated. Wear all PPE in section 8 as a precaution, and avoid physical contact with material.

Personal Protection:

Wear ALL proper personal protective equipment as outlined in section 8 of this MSDS.

Storage & Temperature Conditions:

Keep conditions cool, dry, out of direct sunlight, away from high heat, with at least minimal ventilation. Protect all products containing water from freezing.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION**Note: Selecting protective equipment & clothing:**

When choosing personal protective equipment and clothing, consider each worker environment, all chemicals being handled, temperature and all other conditions.

Eye protection:

Always wear indirectly vented, splash-proof chemical safety goggles under a clear face-shield. Face shield is not to be used without these goggles.

Skin Protection:

Always wear most impervious gloves such as nitrile or other proper chemical-resistant gloves for the job, along with proper coveralls, rubber or plastic apron, etc. Wash hands before eating, drinking or using restroom. Shower after each shift. Clean contaminated protective equipment and clothing before reusing.

Respiratory Protection:

WHENEVER exposure to product vapors, mists, or aerosols is expected, ALWAYS wear an appropriate NIOSH approved organic vapor/mist air-purifying or air-supplied respirator, with ALL proper filters, as necessary. After each shift, completely clean respirator in compliance with 29 CFR 1910.134.

Eye Washes and Other Protection:

Eye wash stations and drench showers should be located within 100 feet or 10-second walk of the work area per ANSI standard Z358.1-1990.

Ventilation:

Local exhaust should be used to maintain exposure limits below specified amounts recommended by OSHA, NIOSH, or ACGIH and to draw spray, aerosol, vapors, or dusts away from workers and prevent routine inhalation. At least 10 air changes per hour are recommended for good room ventilation.

Airborne Exposure Limits:

Not referenced in literature

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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pH:	Not established
% Water Content:	Not established
% Total Solids / Non-Volatiles:	Not established
% Total VOC:	Not established
Solvents by weight:	5-10%
Boiling Point:	Not established
Color:	Brownish
Form:	Liquid
Odor:	Mild
Freezing/Melting Point:	Not established
Lbs. per gallon:	Not established
Specific Gravity (Liquid):	Not established
Vapor Pressure:	Not established
Water Solubility:	Miscible
Solvent Solubility:	Test as applicable
Other Properties:	No further data

All Data shown above are typical values, not specifications.

Any quantity of VOC's reported here is calculated based on the U.S. EPA definition. State or local definitions may differ. To request additional Regulatory Compliance Data, call 312-666-2015.

SECTION 10: STABILITY AND REACTIVITY

Stability:

Product is stable under normal, ambient (controlled) conditions concerning heat, moisture, pressure, ventilation and exposure to incompatible or reactive materials.

Hazardous Polymerization:

Product will not undergo polymerization.

Conditions to Avoid:

Incompatible materials

Incompatible Materials:

Oxidizers

Hazardous Decomposition Products:

In fire: Oxides of carbon and other harmful fumes

Possible Hazard Reactions:

None known

SECTION 11: TOXICOLOGICAL INFORMATION

Oral LD50 (Rat):	No data currently available
Eye Effects (Rabbit):	No data currently available
Skin Effects (Rabbit):	No data currently available
Mutagenicity:	No data currently available
Inhalation LC50 (Rat):	No data currently available
Skin Sensitization (Guinea Pig):	No data currently available
Respiratory Sensitization:	No data currently available
Additional Toxicity Data:	No data currently available

SECTION 12: ECOLOGICAL DATA

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BOD: No data currently available
COD: No data currently available
Aquatic Toxicity: No data currently available
Biodegradability: No data currently available
Persistence: No data currently available
Ecotoxicity: No data currently available
Sewage Treatment: Undetermined
Other Data: No additional data is available

SECTION 13: DISPOSAL AND ENVIRONMENTAL CONSIDERATION

Reuse of materials:

Reclaim all uncontaminated material to reuse, recycle or otherwise rework whenever possible.

Contain - Do not release:

Do not release into sewers, water systems, ground systems or ecosystems without proper authorization.

Disposal Methods:

Incinerate, treat, or bury (landfill), after sampling and testing, at facility approved by applicable federal, state, and local authorities.

Empty Containers:

Empty containers may contain residue and/or vapors and should not be reused unless professionally cleaned and reconditioned. Crush if not cleaned, to prevent reuse.

Applicable Regulations: See Section 15 if regulated

Special Instructions: See Section 15 if regulated

SECTION 14: SHIPPING AND TRANSPORTATION INFORMATION

DOT Regulations (Ground):

Proper Shipping Name: UNREGULATED, CONCENTRATED LIQUID COLOR
 **** PROTECT FROM FREEZING ****
 Hazard Label Required: PROTECT FROM FREEZING
 DOT NOTES: No additional instructions

IATA Regulations (Air):

Proper Shipping Name: UNREGULATED, CONCENTRATED LIQUID COLOR
 **** PROTECT FROM FREEZING ****
 Hazard Label(s): PROTECT FROM FREEZING
 IATA NOTES: No additional instructions

SECTION 15: REGULATORY INFORMATION

Regulatory List Reference:

NOTE: Regulations do not apply unless indicated above. List number citation indicates listed chemical.
 Example A: 5, 8 (Indicates chemical is listed as an EPA HAP and a Marine Pollutant)

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Example B: 10: D007, 11: 5000 (Indicates chemical is a hazardous waste (Chromium), and is an EHS with RQ of 5000 lbs.)

- 1-Accidental Release Substance
- 2-CERCLA 304 Hazardous Substance (RQ)
- 3-CERCLA Reportable Quantity (RQ)
- 4-Clean Air Act-Sec. 111 Volatile Organic Compounds (VOC)
- 5-Clean Air Act-Sec. 112 Haz. Air Pollutant (HAP, HAP Code)
- 6-Clean Air Act-Ozone Depleting Chemical (ODC)
- 7-Clean Water Act-RQ
- 8-Clean Water Act-Priority Pollutant (PP) RQ
- 9-Marine Pollutant (MP)
- 10-PSM Highly Hazardous Chemical
- 11-RCRA Hazardous Waste (RCRA Code)
- 12-SARA 302 Extremely Hazardous Substance (EHS) (RQ)
- 13-SARA 313 Toxic Release Inventory (TRI) (TR Conc., TR Threshold)
- 14-SOCMI Chemical
- 15-State Lists
 - CA-California Proposition 65
 - NJ-New Jersey RTK Hazardous Substance List
 - NJ-New Jersey TCPA Extremely Hazardous Substance List
- 16-Supplemental regulatory information (SRI)

List revised 12/29/05 wln (Current list is not applicable to previously issued MSDS')

SARA 311/312 Hazard Categories:

Immediate / Acute Health Hazard:	YES
Chronic / Delayed Hazard:	YES
Fire Hazard:	NO
Sudden Release of Pressure Hazard:	NO
Reactivity Hazard:	NO

NATIONAL CHEMICAL INVENTORIES:

AICS (Australia):	Not yet determined
ASIA-PAC (Asia-Pacific):	Not yet determined
DSL (Canada):	Not yet determined
ECL (Korea):	Not yet determined
EINECS (Europe):	Not yet determined
ENCS (Japan):	Not yet determined
IECSC (China):	Not yet determined
PICCS (Philippines):	Not yet determined
TSCA (US):	Components Listed
OTHER:	

Supplemental Regulatory Information:

For additional International, Federal or State regulatory compliance information not shown: Call 312-666-2015.

SECTION 16: OTHER INFORMATION

Reason for Revision:	Reformulation
Reviewed:	wln 030106

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Disclaimer:

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 supersedes any previous information. Previously dated sheets are invalid and inapplicable.

END OF MSDS

