

ITW Trans Tech
475 N. Gary Avenue
Carol Stream, IL 60188
Ph 630-752-4000

SAFETY DATA SHEET

www.itwtranstech.com
24 Hr Emergency Ph 352-323-3500

GENERAL INFORMATION

DATE: JULY 1, 2016

SECTION 1-IDENTITY INFORMATION

TRADE NAME
INK FLUORESCENT DYE C-206
INVISIBLE BLUE

FAMILY/CHEMICAL NAME

2,2'-(2,5-THIOPHENEDIYL)BIS(5-TERT-BUTYLBENZOXAZOLE),

CAS REG. NO. 7128-64-5

PRODUCT TYPE: FLUORESCENT WHITENING AGENT

THIS MATERIAL WILL NOT BE SOLD FOR USE IN PRODUCTS FOR WHICH PROLONGED CONTACT WITH MUCOUS MEMBRANES OR ABRADED SKIN, OR IMPLANTATION WITHIN THE HUMAN BODY, IS SPECIFICALLY INTENDED. BECAUSE OF THE WIDE RANGE OF SUCH POTENTIAL USES, WE ARE NOT ABLE TO RECOMMEND THIS MATERIAL AS SAFE AND EFFECTIVE FOR SUCH USES AND ASSUME NO LIABILITY FOR ANY SUCH USES.

HAZARD STATEMENT:

THIS MATERIAL SAFETY DATA SHEET (MSDS) HAS BEEN PREPARED IN COMPLIANCE WITH THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD 29 CFR 1910.1200. THIS PRODUCT IS NOT CONSIDERED TO BE A HAZARDOUS CHEMICAL UNDER THAT STANDARD.

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS:

NAME	CASRN	EXPOSURE LIMITS	CARCINOGEN
2,2'-(2,5-THIOPHENEDIYL)BIS(5-TERT-BUTYLBENZOXAZOLE)	7128-64-5	98-100% N/E / N/E 10 mg/m3	n/r n/r n/r
N/E-None established			
N/R-Not reviewed			

SECTION 3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

- * YELLOW CRYSTALLINE POWDER
- * THIS PRODUCT IS NOT VOLATILE.
- * USE PROPER GROUNDING TECHNIQUES WHEN EMPTYING THIS PRODUCT FROM CONTAINERS WEIGHING MORE THAN 1 POUND. A BUILD-UP OF HAZARDOUS ELECTROSTATIC CHARGES COULD CAUSE A FLASH FIRE OR EXPLOSION WHEN CONTENTS ARE EMPTIED INTO A FLAMMABLE ATMOSPHERE. SEE SECTION 7.

- * THIS PRODUCT IS OF LOW TOXICITY TO AQUATIC ORGANISMS.
- * THIS PRODUCT PRESENTS LITTLE OR NO IMMEDIATE HAZARD TO PEOPLE IF SPILLED OR RELEASED.
- * SWEEP OR SHOVEL SPILLED MATERIAL AND PLACE INTO A SEALABLE CONTAINER. PRE-WET THE MATERIAL TO PREVENT DUST BUILD-UP. DISPOSE IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. INCINERATION IS RECOMMENDED. THIS PRODUCT IS NOT A HAZARDOUS WASTE UNDER RCRA.

POTENTIAL HEALTH EFFECTS, SIGNS, AND SYMPTOMS OF EXPOSURE:

PRIMARY ROUTE OF ENTRY: DERMAL, INHALATION, INGESTION.

EYE: THIS PRODUCT IS NOT EXPECTED TO CAUSE EYE IRRITATION.

SKIN: THIS PRODUCT IS NOT EXPECTED TO CAUSE SKIN IRRITATION OR ALLERGIC SKIN REACTIONS. BECAUSE OF ITS STRONG FLUORESCING POWER, SMALL AMOUNTS ON THE SKIN WILL FLUORESCUE UNDER UV LIGHT. THIS DOES NOT PRESENT A HAZARD. CONTINUED WASHING WITH SOAP AND WATER WILL EVENTUALLY REMOVE IT FROM THE SKIN.

INGESTION: SMALL AMOUNTS, IF SWALLOWED, ARE NOT EXPECTED TO CAUSE INJURY.

INHALATION: CONSIDERED TO PRESENT LITTLE RISK IF INHALED. AN INTERNAL EXPOSURE LIMIT (IEL) OF 10 mg/m³ air (8-hour TWA) HAS BEEN ESTABLISHED FOR A COMPONENT OF THIS BLEND. SAMPLING METHODOLOGY IS AVAILABLE UPON REQUEST.

SECTION 4. FIRST AID MEASURES

FIRST AID FOR EYE: FOLLOWING EYE CONTACT, FLUSH EYES WITH PLENTY OF WATER FOR SEVERAL MINUTES. GET MEDICAL ATTENTION IF IRRITATION OCCURS.

FIRST AID FOR SKIN: FOLLOWING SKIN CONTACT, WIPE AWAY EXCESS MATERIAL WITH A DRY TOWEL. THEN WASH AFFECTED AREAS WITH PLENTY OF WATER AND SOAP, IF AVAILABLE, FOR SEVERAL MINUTES. GET MEDICAL ATTENTION IF IRRITATION OCCURS.

FIRST AID FOR INHALATION: IF INHALED, REMOVE FROM AREA TO FRESH AIR. GET MEDICAL ATTENTION IF RESPIRATORY IRRITATION DEVELOPS, OR IF BREATHING BECOMES DIFFICULT.

FIRST AID FOR INGESTION: IF SWALLOWED, GIVE AT LEAST 3-4 GLASSES OF WATER, BUT DO NOT INDUCE VOMITING. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON.

NOTE TO PHYSICIANS/AGGRAVATED MEDICAL CONDITIONS: NONE KNOWN.

SECTION 5. FIRE FIGHTING MEASURES

FLASH POINT (F/ C)	UEL (VOL%)	LEL (VOL%)
> 662 / >350	NOT DETERMINED	NOT DETERMINED

METHOD: MARCUSSEON (OPEN PAN)

EXTINGUISHING MEDIA: CARBON DIOXIDE, DRY CHEMICAL, FOAM, WATER MIST.

FIRE FIGHTING INSTRUCTIONS: USE SELF-CONTAINED BREATHING APPARATUS.

UNUSUAL HAZARDS: THE PRODUCT CAN FORM AN EXPLOSIVE DUST/AIR MIXTURE.

AVOID DUST FORMATION AND CONTROL IGNITION SOURCES. EMPLOY GROUNDING,

VENTING, AND EXPLOSION RELIEF PROVISIONS IN ACCORD WITH ACCEPTED

ENGINEERING PRACTICES IN PROCESS OPERATIONS CAPABLE OF GENERATING DUST AND/OR STATIC ELECTRICITY.

SECTION 6. ACCIDENTAL RELEASE MEASURES

SPILL OR RELEASE PROCEDURES: PRE-WET MATERIAL WITH WATER TO AVOID DUST FORMATION. SWEEP OR VACUUM AND PLACE INTO SEALABLE CONTAINER FOR DISPOSAL. WEAR PROTECTIVE EQUIPMENT AS SPECIFIED BELOW.

SECTION 7. HANDLING AND STORAGE

HANDLING: IN ACCORDANCE WITH GOOD INDUSTRIAL PRACTICE, HANDLE WITH CARE AND AVOID UNNECESSARY PERSONAL CONTACT. AVOID CONTACT WITH EYES AND PROLONGED OR REPEATED SKIN CONTACT. AVOID CONTINUOUS OR REPETITIVE BREATHING OF DUST. USE ONLY WITH ADEQUATE VENTILATION. FOR INDUSTRIAL USE ONLY. WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING, DRINKING, OR USING TOBACCO PRODUCTS.

STORAGE: KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE AND DURING TRANSPORT.

EXPLOSION HAZARD: FOR ALL PACKAGES:

DANGER! EXPLOSION RISK

-RISK OF EXPLOSION IF AN AIR-DUST MIXTURE FORMS

-AVOID CREATING DUSTY CONDITIONS

-EMPTY ONLY INTO GROUNDED CONTAINERS

-IF CONTAINER IS LARGER THAN 550 US GALLONS (2m³) IN VOLUME, OR WHEN FLAMMABLE SOLVENTS ARE PRESENT, THE CONTAINER MUST BE INERTED OR THE SYSTEM OTHERWISE DESIGNED TO PREVENT OR CONTAIN AN EXPLOSION - SEEK EXPERT ADVICE. IN ADDITION, FOR PRODUCTS PACKAGED IN FUSED-LINED (COATED) FIBER DRUMS, FIBER DRUMS WITH CONDUCTIVE LINERS, STEEL DRUMS, STEEL PAILS, AND BULK BAGS, THE FOLLOWING INSTRUCTIONS ALSO APPLY:

-ALWAYS GROUND THIS PACKAGE BEFORE EMPTYING

THE USER IS RESPONSIBLE FOR DESIGNING A SYSTEM THAT SAFELY HANDLES SOLID ADDITIVES AND TO ENSURE PROPER TRAINING OF EMPLOYEES IN THE SYSTEM'S USE.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: WORK IN WELL-VENTILATED AREAS.

PERSONAL PROTECTIVE EQUIPMENT:

GENERAL: WEAR COVERALLS.

EYE/FACE PROTECTION: WEAR SAFETY GLASSES OR GOGGLES TO PROTECT AGAINST DUST PARTICLES.

SKIN PROTECTION: WEAR GLOVES AS A STANDARD HANDLING PROCEDURE.

RESPIRATORY PROTECTION: USE NIOSH-APPROVED RESPIRATOR FOR RESPIRABLE DUST IF THE TLV IS EXCEEDED.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	YELLOW CRYSTALLINE POWDER
BOILING POINT:	NOT APPLICABLE
DECOMPOSITION TEMPERATURE:	>350 C
EVAPORATION RATE:	NOT APPLICABLE
FREEZING/MELTING POINT:	196-203 C
IGNITION:	490 C BAM
OCTANOL/WATER PARTITION COEFFICIENT:	LOG PO/W: >6
ODOR AND ODOR THRESHOLD:	ODORLESS

pH:	NOT APPLICABLE	
SOLUBILITY:		
SOLVENT	TEMPERATURE	SOLUBILITY
WATER	20 C	<0.01%
SPECIFIC GRAVITY:		1.26 (H ₂ O = 1)
VAPOR DENSITY:		NOT APPLICABLE
VAPOR PRESSURE:		~ 2 x 10 ⁻¹⁰ MMHG AT 20 C
PERCENT VOLATILE:		<0.5%

SECTION 10. STABILITY AND REACTIVITY

CHEMICAL STABILITY:	STABLE
INCOMPATIBILITY WITH OTHER MATERIALS:	STRONG OXIDIZING AGENTS.
HAZARDOUS DECOMPOSITION PRODUCTS:	THERMAL DECOMPOSITION AND BURNING MAY PRODUCE CARBON MONOXIDE, CARBON DIOXIDE, NITROGEN OXIDES, SULFUR OXIDES AND OTHER TOXIC COMPOUNDS.
HAZARDOUS POLYMERIZATION:	WILL NOT OCCUR.

SECTION 11. TOXICOLOGICAL INFORMATION

ACUTE ORAL TOXICITY:	LD ₅₀ (RATS) >10,000mg/kg
ACUTE INHALATION TOXICITY:	LC ₅₀ (RATS) >1.8 mg/l AIR FOR A 4-
HOUR DUST EXPOSURE WITH APPROX. 90% OF PARTICLES <7 MICRONS DIAMETER.	
THERE WERE NO MORTALITIES.	
IRRITATION - SKIN:	(RABBITS) NOT AN IRRITANT
PHOTOTOXICITY:	(RABBITS) NOT A PHOTO-IRRITANT
IRRITATION - EYE:	(RABBITS) NOT AN IRRITANT
SENSITIZATION:	(GUINEA PIGS) NO ANIMAL SENSITIZED
IN THE MAXIMIZATION TEST. RIPT (HUMANS) NO EVIDENCE OF IRRITATION OR	
SENSITIZATION IN 102 SUBJECTS.	
MUTAGENICITY:	AMES TEST: NON-MUTAGENIC
SUBCHRONIC TOXICITY:	13-WEEK STUDY (RATS)
	ADMINISTRATION OF 0, 1000, 3,000 AND 10,000 PPM OF TEST
	SUBSTANCE IN THE DIET TO RATS FOR 13-WEEKS ONLY
	PRODUCED SLIGHTLY HIGHER ABSOLUTE AND RELATIVE LIVER
	WEIGHTS IN THE HIGH-DOSE ANIMALS, WITH NO
	HISTOPATHOLOGICAL CORRELATE. THE NO OBSERVABLE EFFECT
	LEVEL WAS 3,000 PPM, EQUIVALENT TO 148-178 mg/kg/DAY.
CHRONIC TOXICITY/CARCINOGENICITY:	
2-YEAR FEEDING STUDY (RATS)	
	THE TEST SUBSTANCE WAS FED IN THE DIET TO RATS FOR TWO
	YEARS. THERE WAS NO INCREASE IN CANCER INCIDENCE OR ANY
	OTHER EFFECTS IN THE TEST ANIMALS.
1-YEAR FEEDING STUDY (MICE)	
	THE TEST SUBSTANCE WAS FED IN THE DIET TO MICE AT A DIETARY
	CONCENTRATION OF 1000 ppm FOR 52 WEEKS. NO ADVERSE EFFECTS
	WERE SEEN IN ANY OF THE MEASURED PARAMETERS. CANCER
	INCIDENCE WAS ALSO NOT AFFECTED BY TREATMENT.

SECTION 12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: ACUTE TOXICITY TO FISH: ZEBRA FISH, 96-HOUR, LC50: >100 ppm

CHEMICAL FATE INFORMATION:

BIODEGRADABILITY: BIODEGRADABILITY IN MODIFIED STURM TEST: NOT READILY BIODEGRADABLE WITH 0-4% IN 28 DAYS.

SECTION 13. DISPOSAL CONSIDERATIONS

INCINERATE IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTER-BURNER AND SCRUBBER. FOLLOW ALL FEDERAL, STATE, AND LOCAL REGULATIONS.

SECTION 14. TRANSPORT INFORMATION

THIS PRODUCT IS NOT REGULATED BY ANY MEANS OF TRANSPORT.

SECTION 15. REGULATORY INFORMATION

US FEDERAL REGULATIONS:

CLEAN AIR ACT: HAP: THIS PRODUCT CONTAINS NO HAZARDOUS AIR POLLUTANTS (HAP), AS DEFINED BY THE U.S. CLEAN AIR ACT.

CLEAN AIR ACT: ODS: THIS PRODUCT NEITHER CONTAINS, NOR WAS MANUFACTURED WITH, A CLASS I OR CLASS II OZONE DEPLETING SUBSTANCE (ODS).

CLEAN WATER ACT: PRIORITY POLLUTANT: THIS PRODUCT CONTAINS NO CHEMICAL LISTED UNDER THE U.S. CLEAN WATER ACT PRIORITY POLLUTANT LIST.

FDA: FOOD PACKAGING STATUS: THIS PRODUCT HAS BEEN CLEARED BY THE FDA FOR USE AS AN INDIRECT FOOD ADDITIVE IN FOOD PACKAGING AND/OR OTHER APPLICATIONS.

OCCUPATIONAL SAFETY AND HEALTH ACT: THIS PRODUCT IS CONSIDERED TO BE A HAZARDOUS CHEMICAL UNDER THE OSHA HAZARD COMMUNICATION STANDARD (29 CFT 1910.1200). ITS HAZARDS ARE: FIRE HAZARD; SUDDEN RELEASE OF PRESSURE (EXPLOSION) HAZARD.

RCRA: THIS PRODUCT IS NOT CONSIDERED TO BE A HAZARDOUS WASTE UNDER RCRA (40CFR261).

SARA TITLE III: SECTION 302

THIS PRODUCT CONTAINS NO CHEMICALS REGULATED UNDER SECTION 302 AS EXTREMELY HAZARDOUS SUBSTANCES.

SARA TITLE III: SECTION 304

THIS PRODUCT CONTAINS NO CHEMICAL REGULATED UNDER SECTION 302 AS EXTREMELY HAZARDOUS CHEMICALS FOR EMERGENCY RELEASE NOTIFICATION ("CERCLA" LIST).

SARA TITLE III: SECTION 311-312: THIS PRODUCT IS CONSIDERED HAZARDOUS UNDER THE OSHA HAZARD COMMUNICATION STANDARD (HCS) AND IS REGULATED UNDER SECTION 311-312 (40CFR370). ITS HAZARDS ARE: FIRE HAZARD; SUDDEN RELEASE OF PRESSURE (EXPLOSION) HAZARD.

SARA TITLE III: SECTION 313: THIS PRODUCT CONTAINS NO CHEMICAL REQUIRING ANNUAL ROUTINE TOXIC CHEMICAL RELEASE REPORTING UNDER SECTION 313.

TSCA SECTION 5(e): CONSENT ORDER: THIS PRODUCT IS NOT SUBJECT TO A SECTION 5(e) CONSENT ORDER OR SIGNIFICANT NEW USE RULE (SNUR).

TSCA SECTION 5(f): ACTIONS: THIS PRODUCT IS NOT SUBJECT TO A SECTION 5(f)6(a)RULE.

TSCA SECTION 5(f): INVENTORY: ALL CHEMICALS COMPRISING THIS PRODUCT ARE LISTED ON THE TSCA INVENTORY.

TSCA SEC. 12(b): EXPORT NOTIFICATION: THIS PRODUCT DOES NOT CONTAIN ANY CHEMICAL SUBJECT TO SECTION 12(b) EXPORT NOTIFICATION.

STATE REGULATIONS:

CA PROPOSITION 65: THIS PRODUCT DOES NOT CONTAIN ANY CHEMICAL CURRENTLY ON THE CALIFORNIA LIST OF KNOWN CARCINOGENS AND REPRODUCTIVE TOXINS.

MA RIGHT-TO-KNOW LAW: THIS PRODUCT DOES NOT CONTAIN ANY CHEMICALS WHICH ARE SUBJECT TO MASSACHUSETTS RIGHT-TO-KNOW LAW DISCLOSURE REQUIREMENT.

NJ RIGHT-TO-KNOW LAW: THE FOLLOWING IS REQUIRED COMPOSITION INFORMATION:
CHEMICAL NAME: 2,2'-(2-5-THIOPHENEDIYL)BIS[5-TERT-BUTYLBENZOXAZOLE]
CASRN: 7128-64-5

% IN COMPOSITION: 98-100

PA RIGHT-TO-KNOW LAW: THE FOLLOWING IS REQUIRED COMPOSITION INFORMATION:
CHEMICAL NAME: 2,2'-(2-5-THIOPHENEDIYL)BIS[5-TERT-BUTYLBENZOXAZOLE]
CASRN: 7128-64-5

% IN COMPOSITION: 98-100

COMMENTS: NOT ON PENNSYLVANIA HAZARDOUS SUBSTANCE LIST.



Trusted Partner for Your Product Decorating Needs

Trans Tech 475 North Gary Avenue, Carol Stream, IL 60188
Tel +1 (630) 752 4000 Fax +1 (630) 752 4467
Email sales@itwtranstech.com

www.itwtranstech.com www.itwids.com

A MEMBER OF

 **IDS** | A Division of ITW