

MATERIAL SAFETY DATA SHEET

Futura Coatings, Inc.

9200 Latty Avenue

Hazelwood, MO 63042

Technical Information: 314-521-4100
Emergency Information: 314-521-4100
8:00 A.M. TO 5:00 P.M. C.T. Monday-Friday

Revision Date: 09/23/02
Category Code: NHB

In the event of a chemical emergency involving a spill, leak, fire, exposure or accident during transportation, call CHEMTREC: 800-424-9300 (24 hours). Read the MSDS and label prior to use.

Section I - Product Identification

Product Name: GREEN TINT FOR 5324B
Product Number: 05324T75
Description: Polyurethane polyol blend with additives

Section II - Hazardous Ingredients

	CAS #	Weight %	--- Exposure Limits ---		
			ACGIH/TLV		OSHA/PEL
			TWA	STEL	
Tetrahydroxypropylethylenediamine	102-60-3	1-12	NDA	NDA	NDA
1,4 Butanediol	110-63-4	0-9	NDA	NDA	NDA
Polyether triol	25791-96-2	2-13	NDA	NDA	NDA

Section III - Hazard Summary

Emergency Overview: Harmful if inhaled. Toxic fumes are released in fire situations.
Green liquid. Slightly musty odor.

HMS RATINGS:	Health 2	Flammability 1	Reactivity 0
Insignificant = 0	Slight = 1	Moderate = 2 High = 3	Extreme = 4
NFPA RATINGS:	Health 2	Flammability 1	Reactivity 0
Minimal = 0	Slight = 1	Moderate = 2 Serious = 3	Severe = 4

Potential Health Effects:

- Inhalation:** Heating, spraying, foaming, or otherwise mechanically dispersing (drumming, venting or pumping) operations of this blend may generate more vapor or aerosol concentrations of its components. May cause sneezing and slight irritation of nose, throat and lungs.
- Skin Contact:** Prolonged contact may cause skin irritation or dermatitis in some individuals.
- Eye Contact:** May cause watering of the eyes and inflammation of conjunctiva.
- Ingestion:** May cause nausea and vomiting.
- Carcinogenicity:** The components of this blend are not listed by the NTP, IARC or regulated by OSHA as carcinogens.

Section IV - First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes. Use fingers to assure that the eyelids are separated and that the eye is being irrigated. Consult a physician.

Skin: Wash skin with large quantities of water and soap. Wash clothing before reuse. Seek medical attention if redness, itching or a burning sensation develops or persists after the area is washed.

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

Inhalation: If symptomatic, move to fresh air. Get medical attention if symptoms persist.

NE=Not Established NDA=No Data Available ca=Approximately <=Less than C = Ceiling

Section V - Fire Fighting Measures

Flash Point: 300°F, (COC) NFPA Combustible Class III B
Autoignition Temperature: NDA
Flammable Limits (STP): NDA Toxic fumes are released in fire situations.

Fire Degradation Products: Combustion may produce carbon dioxide, carbon monoxide and nitrogen oxides.

Extinguishing Media: Use dry chemical, foam, carbon dioxide, halogenated agents or water. Use cold water spray to cool fire-exposed containers to minimize risk of rupture. A solid stream of water directed into the hot burning liquid could cause frothing. If possible, contain fire run-off water.

Protective Equipment: Wear positive-pressure self-contained breathing apparatus with full facepiece and full protective clothing.

Section VI - Accidental Release Measures

Spill: Remove all sources of flames, heating elements, gas engines, etc. Emergency clean-up personnel should wear chemical goggles, rubber or plastic gloves and clothing as required to protect against contact. Prevent spreading and contamination of surface waters and drinking supplies. Notify local health officials and other appropriate agencies if such contamination should occur.

Clean up: With adequate ventilation and appropriate personal protective equipment, cover the area with an inert absorbent material such as clay or vermiculite and transfer to steel waste containers. The spill area should then be washed down with soap and water to dilute and remove remaining traces of material. Ventilate area to remove the remaining vapors.

Disposal: Any disposal practice must be in compliance with all federal, state and local laws and regulations. Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Waste characterization and disposal compliance are the responsibility solely of the party generating the waste or deciding to discard or dispose of the material.

Do not allow material to enter sewers, a body of water, or contact the ground. Refer to RCRA 40 CFR 261, and/or any other appropriate federal, state or local requirements for proper classification information.

Container

Disposal: Empty containers retain product residue (liquid and/or vapor) and can be dangerous. Do not pressurize, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

Call CHEMTREC (800-424-9300) for chemical emergencies or spills during transportation

Section VII - Storage and Handling

Storage: When stored between 15 and 30°C (60 and 85°F) in sealed containers, typical shelf life is 6 months or more from the date of manufacture. Consult technical data sheet for shelf life requirements affecting performance quality. Opened containers must be handled properly to prevent moisture pickup.

Handling: Avoid skin and eye contact. Use personal protective equipment when transferring material to or from drums, totes or other containers. If contamination with isocyanates is suspected, do not reseal containers. Do not smoke or use naked lights, open flames, space heaters, or other ignition sources near pouring, frothing or spraying operations.

Special Emphasis for Spray Applications of Mixed Products Containing Isocyanates: Inspect the application area for the potential to expose other persons or for overspray to drift onto buildings, vehicles or other property. When spraying building exteriors, persons entering or exiting the building as well as those inside could be exposed to polyisocyanates due to wind conditions, open windows or air intakes. Do not begin application work until these potential problems have been corrected.

Section VIII - Exposure Control

Ventilation: Good general exhaust ventilation is recommended when working with this product. Uses requiring heating and/or spraying may require more ventilation or personal protective equipment.

Respiratory Protection: The specific respirator selected must be based on contamination levels of this blend found in the workplace and must not exceed the working limits of the respirator and be jointly approved by NIOSH and MSHA. Air purifying respirators equipped with full-faced organic vapor cartridge can be used only if isocyanate vapors are not present from the "A" component. In areas of high concentrations, fresh air-line respirators or self-contained breathing apparatus should be used. A positive pressure self contained breathing apparatus can be used in emergencies or other unusual situations.

Eye Protection: Fitted chemical goggles or full face shield and safety glasses must be used consistent with splash hazard present. If vapor exposure causes eye discomfort, use a full facepiece respirator or supplied air hood.

Protective Clothing: Wear clothing, boots and gloves resistant to permeation of product. Materials may include butyl rubber, nitrile rubber, neoprene and Saranex® coated Tyvek®.

Other Protective

Equipment: An eyewash station and safety shower or other drenching facilities are recommended in the work area.

Section IX - Typical Properties

Physical Form:	Green liquid
Odor:	Slightly musty
Boiling Point:	442-595°F, (5 mmHg)
Evaporation Rate (Butyl Ether=1)	<1
Weight per gallon (25° C):	9.6 lbs/gal
Vapor Density (Air=1):	>1
Volatile by weight:	0.30 %
Volatile by volume:	0.39 %
Specific Gravity at 25°C:	1.15
VOC (Method C)	3.5 gm/l
Solubility in water:	Not soluble

Section X - Stability and Reactivity

Stability: This is a stable material. Avoid high temperatures, sparks, flame and extended exposure over 110°F (45°C).

Hazardous

Polymerization: Will not occur.

Reactivity: Incompatible with oxidizing materials, isocyanates and acids.

Section XI - Shipping Information

DOT (Domestic Surface)

Hazard Class or Division: Not regulated

IMO (Ocean)

Hazard Class or Division: Not regulated

IATA/ICAO (Air)

Hazard Class or Division: Not regulated

NE=Not Established NDA=No Data Available ca=Approximately <=Less than C = Ceiling

Section XII - Federal Regulatory Information

OSHA Status: This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA Status: On the TSCA inventory.

CERCLA Reportable Quantity: None reported

SARA Title III:

Section 302 Extremely Hazardous Substances: None

Section 311/312 Hazard Categories: Immediate Health Hazard, Delayed Health Hazard

Section 313 Toxic Chemicals: None

RCRA Status: It is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

Section XIII - Other Regulatory Information

Individual State requirements:

California Proposition 65: Chemical(s) in this product known to the State of California to cause cancer:
None

California Proposition 65: Chemical(s) in this product known to the State of California to cause reproductive toxicity:
None

For further details on regulatory and shipping requirements, contact Futura Coatings Inc. or the appropriate agency.

Section XIV - Comments

This MSDS complies with 29 CFR 1910.1200 (Hazard Communication Standard)

Issued by: Futura Coatings Inc. Hazelwood, Missouri

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