

Material Safety Data Sheet

KF-21 (Speed Glaze Component B) HARDENER Page 1 of 7

For Chemicals, Coatings, and Relating Materials
in Compliance with OSHA 29 CFR 1910.1200

Date Prepared 02/01/2012

Manufactured For

Name: SPR INTERNATIONAL INC.
Address: 320 Northpoint Pkwy. Suite L

ACWORTH, GA
Zip code: 30102

Emergency Phone Number
3-E: 1-800-451-8346

Information Phone Number
Office: 770-966-1331

Section I Product Name

Number: KF-21 (Component B) H M I S Hazard Codes
Name: KF-21 2-Compound Polyester Polyurethane Health: 2*
Class: Polyester Polyurethane Flammability: 1
Reactivity: 3
Personal Protective Equipment: [B]

Section II-Hazardous Ingredients

Ingredient	C. A. S.	PEL	TLV	OTHER UNIT
Material Description	Registry No.	OSHA	ACGIH	
Homopolymer of **HDI				
Polyisocyanate	28182-81-2	1	1	mg/m ³
N-Butyl Acetate	123-86-4	150	100	PPM

Section III - Physical Data

Boiling Range: 279.0 - 284.0 deg. F	Freezing Range: NA - NA deg F
Melting Points: NA	
Vapor Pressure: 1.4 mm @ deg. C	Vapor Density: Lighter
Specific Gravity: 1.123	H2O Soluble: Negligible
Evaporation Rate: Same	H2O Reactive: Minimal
(relative to n-butyl acetate)	Density: 9.354 lbs/gal
Volatile by Volume 16.87	Appearance and Odor: Opaque Liquid-Solvent
Odor	

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Section IV-Fire and Explosion Hazard Data

Flash Point: 72° - 76° F
(Method used) Tag Closed Cup

Explosive Limits: LEL UEL (V IN AIR)
1.8 11.5

Flammability Classification

OSHA : Flammable Liquid - Class I C

Auto-Ignition Temperature: NA

EXTINGUISHING MEDIA- CONT.

Foam

Carbon Dioxide (CO2)

Dry Chemical

Halon

Special Fire Fighting Procedures

Use water fog to cool containers.

Wear Protective clothing.

Fight fire from a safe distance.

Close all valves to the area.

Shut off all power to the area.

Use self-contained breathing apparatus (SCBA)

Avoid spreading burning liquid with water used for cooling.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Vapors can be irritating to both eyes and skin.

Closed containers may rupture when exposed to extreme heat.

Do not expose these containers to heat, sparks or flame.

Heat or prolonged exposure to sun may cause bursting.

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Section V - Toxicological Information

Ingredient Material Description	Carcinogenicity Listing			LD50 (mg/kg)	LC50 (mg/m3)	
	OSHA	NTP	IARC	(rat) ORAL	(rat) DERMAL	(rat) INHAL
	N/L	N/L	N/L	>10000	>5000	4HR 150-1200

Section VI-Health Hazard Data

EFFECTS OF OVEREXPOSURE

Vapors may irritate eyes, skin, and respiratory tract.

Exposure/ingestion may cause sore throat, abdominal pain, vomiting, dizziness and nausea.

Contact may cause skin irritation or allergic skin reaction.

This is a chemical substance caution and common sense will help protect against over exposure.

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION:

This compound is a known pulmonary sensitizer. Treatment is essentially symptomatic. A person having a skin or pulmonary sensitization reaction should be removed from exposure area.

EYE CONTACT :

Can cause pain, tearing, reddening, and swelling of the eyes. Flush w/ water (lift lids) for fifteen minuets. Obtain medical attention immediately.

SKIN CONTACT:

Repeated or prolonged skin contact can result in swelling, rash, scaling, or blistering. Wash affected areas with soap and water. Treat contaminated areas as for thermal burns or dermatitis. Remove contaminated clothing and wash before reuse.

INGESTION:

Can cause irritation of the digestive tract. Symptoms include sore throat, abdominal pain, nausea, vomiting, and diarrhea. Do not induce vomiting. Obtain medical attention.

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Section VII - Reactivity Data

STABLE: Yes - under normal storage conditions

Polymerization: No

Incompatibility: (MAT L to Avoid)

Water, amines, strong bases, alcohol, nitrogen oxides, metal compounds

HAZARDOUS DECOMPOSITION PRODUCTS:

Fumes and smoke

Oxides of nitrogen and/or carbon monoxide

May produce noxious fumes when heated to decomposition

Section VIII -Spill or Leak Procedures

MATERIAL SPILLAGE

Absorb with sand and dispose of in a approved manner.

Dike area with sand to contain spilled liquid.

Wear protective clothing during cleanup.

Recover free product.

Ventilate confined spaces. Open windows and doors.

Shut off and eliminate all ignition sources.

Scoop or vacuum into container for disposal.

Prevent material from entering waterways.

WASTE DISPOSAL

Incinerate in an approved manner in an approved facility.

Landfill in accordance with local, state, and federal regs.

Dispose of in accordance with local regulations.

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Section IX- Special Protection Information

RESPIRATORY PROTECTION

NESA/NIOSH approved respirator suitable for organic vapors in areas of poor ventilation.

Maintain good ventilation.

Use a NIOSH approved cartridge respirator or gas mask. If airborne concentrations exceed PEL(see SECTION 2) a supplied air respirator is recommended for best protection.

VENTILATION

Provide adequate cross air circulation.

General mechanical ventilation designed and maintained to provide volume and pattern to prevent vapor concentration in excess of TLV or PEL.

To avoid breathing vapors or spray mist, open windows and doors. Ensure fresh air entry during application and drying.

Protective Gloves

Solvent resistant gloves.

Section IX -Special Protection Information-cont.

Wear impervious gloves (Neoprene) to minimize skin contact.

Must be used to prevent repeated or prolonged contact.

EYE PROTECTION

Safety goggles.

Splashproof safety goggles to protect against splash.

This product contains eye irritating materials.

OTHER PROTECTION EQUIPMENT

Eyewash station (fountain)

Automatic water available to flush eyes and skin.

HYGENIC PRACTICES

Wash hands before eating and after using the washroom.

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Section X - Special Precautions

D. O. T.	EPA RCRA	
Hazard Class : [Non Regulated]		Class : Non
Regulated		
Shipping Name : [HDI]		UN/NA No : None
CERCLA Reportable Only : [5000 lbs]		On Inv :

HANDLING AND STORAGE PRECAUTIONS

Store between 41°F [5°C] and 93°F [34°C].
Ground Containers during storage and transfer operations.
Store in tightly closed containers to prevent moisture contamination.
Check all containers for leaks. Keep containers closed when not on use.
Do not reseal if contamination is suspected.
Do not handle or store near heat, sparks, or flame.
Empty containers retain residue and can be dangerous.

OTHER PRECAUTIONS

Read instructions on Product Data Sheet before use.
Educate and train employees in the safe use and handling of this product.
Wash hands thoroughly after handling.
KEEP OUT OF REACH OF CHILDREN.

Section XI Sara Title III

Chemical	CAS Number	Weight	Acute	Chron	Reactive
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None

This product contains the above toxic chemicals subject to the reporting requirements of SARA Title 313 of the Emergency Planning and Community Right-to- Know Act of 1986 and of 40 CRF 372.
If there NONE the Section will be empty. Or LOOK in NEXT SECTION FOR SPECIAL REMARKS

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DISCLAIMER

After careful review of all raw material MSDS information, every effort has been made to ensure that the safety information on this sheet is accurate, but because the manufacturer has no control over conditions under which the product will be used, liability is limited exclusively to replacement or refund of the purchase price of this product. Except as stated herein, there are NO EXPRESS OR IMPLIED WARRANTIES INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. The manufacturer assumes no liability for injury or incidental or consequential.

THIS MATERIAL SAFETY DATA SHEET HAS BEEN PREPARED IN COMPLIANCE WITH THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD 29 CFR 1910. 1200. THIS PRODUCT IS CONSIDERED TO BE A HAZARDOUS SUBSTANCE UNDER THAT STANDARD.