MATERIAL SAFETY DATA SHEET

NPCA 1-82

FOR COATINGS, RESINS AND RELATED MATERIALS

(Approved by U.S. Department of Labor Essentially Similar to Form OSHA-20)

Section I

MANUFACTURER'S NAME: TANDEM PRODUCTS, INCORPORATED

DATE OF PREP: Revised 7-12-85

STREET ADDRESS: 3444 Dight Avenue South CITY, STATE, AND ZIP CODE: Minneapolis, MN 55406

EMERGENCY TELEPHONE NO.

INFORMATION TELEPHONE NO.: (612) 721-2911

MANUFACTURERS CODE IDENTIFICATION

PRODUCT CLASS: Urethane Polymer

TRADE NAME: Dark Blue #3 RHINO HYDE SHEETS

Section II—HAZARDOUS INGREDIENTS

INGREDIENT	PERCENT	OCCUPATIONAL EXPOSURE LIMITS	VAPOR PRESSURE	TOXICITY DATA
NONE Drum Liner				

Section III—PHYSICAL DATA

BOILING RANGE: Decomposes at 500°F

VAPOR DENSITY: ☐ HEAVIER ☐ LIGHTER, THAN AIR

EVAPORATION RATE ☐ FASTER ☐ SLOWER, THAN ETHER: Solid

PERCENT VOLATILE BY VOLUME: 0

WEIGHT PER GALLON

Section IV—FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION: OSHA _____ DOT _____

FLASH POINT

LEL

EXTINGUISHING MEDIA

XX ☒ FOAM ☐ "ALCOHOL" FOAM XX ☒ CO_2 XX ☒ DRY CHEMICAL XX ☒ WATER FOG ☐ OTHER

UNUSUAL FIRE AND EXPLOSION HAZARDS

Polyurethane is flammable when exposed to open flame. Avoid exposure to open flame situations such as welding

During combustion, polyurethane decomposes generating large amounts of carbon monoxide, carbon dioxide and hydrocarbons as decomposition products. Nitrogen oxides and hydrogen cyanide may also be generated in small concentrations.

The decomposition products are highly poisonous when inhaled. Self-contained breathing apparatus is required in fire-fighting situations and when decomposition products have been generated.

Decomposition of the polyurethane can occur in situations other than fire when the decomposition temperature (500°F) has been exceeded. Examples of potentially dangerous situations include the use of fabrication or cutting tools which generate excess frictional heat such as circular saws or high speed drills.

RHINO HYDE

Section V—HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE

A number of toxicological studies have determined that finished polyurethane products are physiologically and chemically inert and produce no sensitization response on skin contact even in highly sensitive persons. These studies should not be interpreted to mean that all polyurethane products are completely innocuous.

Finishing and cutting operations may create dust and/or organic vapors if the decomposition temperature ( ) is exceeded. Dust and vapors can cause allergic-like reactions in individuals with isocyanate sensitivity when they come in contact with the eyes or asthma-like reactions when inhaled. Individuals with known isocyanate sensitivity should avoid exposure to these conditions.

Emergency and First-Aid Procedures: Any individual exposed to polyurethane dust or vapors who develops symptoms of allergy or irritation should be removed from the job and provided with medical attention. If respiratory difficulty develops remove individual to fresh air and provide with oxygen if needed.

Section VI—REACTIVITY DATA

STABILITY ☐ UNSTABLE ☒ STABLE CONDITIONS TO AVOID

INCOMPATABILITY (Materials to avoid)

HAZARDOUS DECOMPOSITION PRODUCTS

HAZARDOUS POLYMERIZATION ☐ MAY OCCUR ☐ WILL NOT OCCUR

Section VII—SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

WASTE DISPOSAL METHOD

Solid, Non-Hazardous Waste

Section VIII—SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION

Personnel operating power equipment generating urethane dust should wear dust masks which mechanically filter and prevent dust inhalation. Filters in dust masks should be cleaned or replaced often to allow smooth air passage. An organic cartridge mask is appropriate if organic vapors are generated.

EYE PROTECTION

Well-fitted, side shield goggles for protection from dust and metal slivers when cutting Rhino Hyde or ceramic Rhino Hyde.

Section IX—SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Fabrication operations should be conducted in a well-ventilated area designed for that purpose. No smoking, open flames or heat conditions causing decomposition should be permitted in the fabrication area. Use only shears or slow action saws such as a saber saw when cutting polyurethane. Wear eye protection, gloves and long sleeve shirts when fabricating Rhino Hyde or ceramic Rhino Hyde. All floors, machinery, exposed pipe beams, etc. should be kept free of dust by vacuuming at frequent intervals.