

MATERIAL SAFETY DATA SHEET

SECTION 1 – IDENTIFIERS			
Manufacturer:	Thermo Manufacturing Systems, LLC		
Address:	301 Walnut Springs Road	Product:	Traffic Shield (Part A)
	Lindale, TX 75771	Chemical Family:	Urethane Prepolymer Solution
Phone:	(903) 881-8771	Revision Date:	06/15/03
Emergency:	(800) 424-9300 (Chemtrec)		

SECTION 2 – COMPOSITION			
COMPONENT	CAS #	APPROX	TLV
Polyether Prepolymer (Isocyanate Solution):	N.O.S.	43.0%	
Naptha, Light Aromatic Solvent:	64742-95-6	46.0%	
N-Butyl Acetate:	123-86-4	10.0%	
Isophorone Di-isocyanate:	4098-71-9	<1.0%	0.005 ppm (skin)
Known Carcinogens or Mutagens – Type & Definition: None			

SECTION 3 – PHYSICAL DATA			
Boiling Point (F):	312°	Specific Gravity (H2O=1):	0.93
Vapor Pressure:	10	Percent, Volatile By Volume:	56%
Vapor Density (Air=1):	4.8	EVAPORATION RATE (N.B.A.=1):	0.25
Solubility in Water:	Insoluble	pH (5% Slurry):	Neutral
Appearance & Odor:	Clear liquid with sweet, perfume-like odor.		

SECTION 4 – FIRE & EXPLOSION HAZARD DATA	
Flash Point (Method Used):	97°F. Closed Cup (ASTM D50).
Flammable Limits:	Lel 0.9; Uel 6.0.
Extinguishing Media:	Carbon dioxide; dry chemical; foam.
Special Fire Fighting Procedures:	If excessive fumes or smoke is encountered, wear self-contained breathing apparatus and full protective equipment.
Unusual Fire & Explosion Hazards:	Sealed containers may build up pressure if exposed to heat (fire). Water can be used to cool the exterior of the containers.
Decomposition Products:	Oxides of carbon and nitrogen, possible HCN and polyurethane combustion compounds.

SECTION 5 – HEALTH HAZARD DATA	
EFFECTS OF OVEREXPOSURE:	
Skin:	May cause dermal sensitization. May be absorbed through skin.
Eyes:	Contact may cause severe damage. Vapor may irritate.
Breathing:	Inhalation may cause headache, dizziness, nausea and irritation. Inhalation of spray mist may be toxic.
Swallowing:	Harmful or fatal if swallowed.
FIRST AID PROCEDURES:	
Skin:	Clean thoroughly with waterless hand cleaner, followed with soap and water.
Eyes:	Flush with clear water for 15 minutes and seek immediate medical attention.
Breathing:	Move victim to fresh air and give artificial respiration or oxygen if needed.
Swallowing:	DO NOT induce vomiting. Seek immediate medical attention.

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SECTION 6 – REACTIVITY DATA	
Stability:	Stable.
Incompatibility (Materials to Avoid):	Water (moisture); alcohols; amines; strong acids and bases.
Hazardous Decomposition Products:	Oxides of carbon and nitrogen, possible HCN and polyurethane combustion compounds.
Hazardous Polymerization:	Will not occur.
Conditions to Avoid:	Excessive heat and/or wet conditions.

SECTION 7 – SPILL OR LEAK PROCEDURES	
Material is released or Spilled:	Cover with a layer of sand or other suitable absorbent. Use protective measures as outlined in Section 8 below. Avoid contact with skin, eyes and clothing.
Waste Disposal Method:	Dispose of in accordance with local, state and federal regulations

SECTION 8 – SPECIAL PROTECTION INFORMATION	
Respiratory Protection (Specify Type):	In confined spaces use fresh air hood or NIOSH certified organic vapor canister unit. If used indoors, ventilate well using a general or local exhaust ventilation.
Eye Protection:	Wear chemical splash goggles or face shield. Do not wear contact lenses while working with this material.
Skin Protection:	Nitrile rubber gloves to prevent skin contact.
Other Protective Equipment:	Coveralls and/or apron, rubber shoes or boots, eye wash station or fresh running water should be readily available.
Personal Hygiene:	Wash hands thoroughly after handling and especially before eating or smoking. Shower at the end of work shift. Wash contaminated clothing before reuse.

SECTION 9 – SPECIAL PRECAUTIONS	
Precautions to be Taken in Handling:	Flammable liquid. Keep away from all sources of ignition. Use with adequate ventilation. Avoid prolonged or repeated contact with skin. Avoid contact with moisture.

SECTION 10 – TRANSPORTATION INFORMATION	
Proper Shipping Name	Paint
Hazard Class:	3
Packing Group:	III
ID #:	UN 1263
RQ:	None
Transport Labels Required:	Flammable liquid.

This Material Safety Data Sheet supersedes all other previously dated sheets for this product

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SECTION 1 – IDENTIFIERS			
Manufacturer:	Thermo Manufacturing Systems, LLC		
Address:	301 Walnut Springs Road	Product:	Traffic Shield (Part B)
	Lindale, TX 75771	Chemical Family:	Acrylic/Pigment Dispersion
Phone:	(903) 881-8771	Revision Date:	11/11/02
Emergency:	(800) 424-9300 (Chemtrec)		

SECTION 2 – COMPOSITION			
COMPONENT	CAS #	APPROX	TLV
Titanium Dioxide:	13463-67-7	65.0%	
Aldehyde Resin (N.J.T.S.):	N.O.S.	15.0%	
Aromatic 100:	64742-95-6	10.0%	
PM Acetate:	108-65-6	10.0%	
Known Carcinogens or Mutagens – Type & Definition:		None	

SECTION 3 – PHYSICAL DATA			
Boiling Point (F):	280-350° F	Specific gravity (H2O=1):	1.89
Vapor Pressure:	2.1	Percent, Volatile by Volume:	20%
Vapor Density (Air=1):	4.4	Evaporation Rate (N.B.A.=1):	<1.0
Solubility in Water:	Insoluble	pH (5% Slurry):	N/A
Appearance & Odor:	Paste; acetate odor.		

SECTION 4 – FIRE & EXPLOSION HAZARD DATA	
Flash Point (Method Used):	108° F
Flammable Limits:	1.0/6.0
Extinguishing Media:	Water fog; carbon dioxide; dry chemical
Special Fire Fighting Procedures:	Do not use water, except as foam.
Unusual Fire & Explosion Hazards:	Keep away from excessive heat or open flame.
Decomposition Products:	Combustion will produce carbon dioxide and possibly carbon monoxide.

SECTION 5 – HEALTH HAZARD DATA	
EFFECTS OF OVEREXPOSURE:	
Skin:	Irritant to skin. Prolonged or repeated contact may cause defatting and/or dermatitis.
Eyes:	Direct contact may cause burning, tearing, redness or swelling.
Breathing:	Irritant to respiratory tract. Prolonged breathing of vapors may cause headache, dizziness, or nausea.
Swallowing:	May cause irritation of the digestive tract; drowsiness; dizziness; loss of coordination; fatigue.
FIRST AID PROCEDURES:	
Skin:	Wash well with soap and water; remove contaminated clothing and wash before reuse.
Eyes:	Flush eyes with clear water for 15 minutes. Get immediate medical attention.
Breathing:	Remove victim to fresh air, away from vapors.
Swallowing:	Do NOT induce vomiting. Get medical attention immediately.

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SECTION 6 – REACTIVITY DATA	
Stability:	Stable.
Incompatibility (Materials to Avoid):	Keep away from excessive heat and open flames.
Hazardous Decomposition Products:	Carbon dioxide and possibly carbon monoxide.
Hazardous Polymerization:	Will not occur.
Conditions to Avoid:	Excessive heat and open flames.

SECTION 7 – SPILL OR LEAK PROCEDURES	
Material is Released or Spilled:	Cover with a layer of sand or other suitable absorbent. Use protective measures as outlined in Section 8 below. Avoid contact with skin, eyes and clothing.
Waste Disposal Method	Dispose of in accordance with local, state and federal regulations

SECTION 8 – SPECIAL PROTECTION INFORMATION	
Respiratory Protection (Specify Type):	In confined spaces use fresh air hood or NIOSH certified organic vapor canister unit. If used indoors, ventilate well using a general or local exhaust ventilation.
Eye Protection:	Wear chemical splash goggles or face shield. Do not wear contact lenses while working with this material.
Skin Protection:	Nitrile rubber gloves to prevent skin contact.
Other Protective Equipment:	Coveralls and/or apron, rubber shoes or boots, eye wash station or fresh running water should be readily available.
Personal Hygiene:	Wash hands thoroughly after handling and especially before eating or smoking. Shower at the end of work shift. Wash contaminated clothing before reuse.

SECTION 9 – SPECIAL PRECAUTIONS	
Precautions to be Taken in Handling:	CAUTION: flammable liquid. Keep away from all sources of ignition. Use with adequate ventilation. Avoid prolonged or repeated contact with skin. Avoid contact with moisture.

SECTION 10 – TRANSPORTATION INFORMATION	
Proper Shipping Name:	Paint
Hazard Class:	3
Packing Group:	III
ID #:	UN 1263
RQ:	None
Transport Labels Required:	Flammable liquid. (In the U.S., this material may be re-classified as a combustible liquid and is not regulated in containers less than 119 gallons via surface transportation.)

This Material Safety Data Sheet supersedes all other previously dated sheets for this product

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