
MATERIAL SAFETY DATA SHEET

NORMAC ADHESIVE PRODUCTS INC.
NR-606 PART "B"

Section 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Products Name: NR-606 PART "B"
Chemical Family: Polyurethane Curative
Chemical Name: Di(methylthio)toluenediamine [DMTDA]
Applications: Used as a polyurethane curative.

Supplier's Name: **Normac Adhesive Products Inc.**
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Prepared by: Regulatory Affairs Group of Normac Adhesive Products Inc.
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24 Hour Emergency Telephone Number (Canutec): (613) 996-6666

Section 2 – HAZARD(S) IDENTIFICATION

Emergency Overview: **CAUTION** - Very Toxic material causing other effects.

Harmful if swallowed.
 Causes eye irritation.
 May cause sensitization by skin contact.
 May cause irritation of the respiratory tract.

Section 3- COMPOSITION / INFORMATION ON INGREDIENTS

	Cas No.	Percentage (W/W)	Exposure Limits	
			ACGIH	OHSA
Di(methylthio)toluenediamine [DMTDA]	106264-79-3	40 - 60	N.A.	N.A.
Butyl Benzyl Phthalate	85-68-7	40 - 60 Very toxic to aquatic organisms.	N.A.	N.A.

Section 4 - FIRST AID MEASURES

Eye Contact: Flush eyes immediately with water for at least 20 minutes. Hold eyelids open during flushing. Obtain medical attention immediately.

Skin Contact: Remove contaminated clothing. Wipe excess material from the skin. Wash skin with soap and water. Obtain medical attention if irritation persists.

Inhalation:	Move victim to fresh air. Give artificial respiration ONLY if breathing has stopped. Give cardiopulmonary resuscitation (CPR) if there is no breathing AND no pulse. Obtain medical attention immediately.
Ingestion:	If victim is alert and fully conscious, give 2 glasses of water and induce vomiting. Never give anything by mouth if victim is unconscious or convulsing. Obtain medical attention immediately.
Note to Physicians:	Medical conditions that may be aggravated by exposure to this product include diseases of the skin, eyes or respiratory tract.
Routes of Entry:	Eyes, skin, ingestion, inhalation.

Section 5 – FIRE FIGHTING MEASURES

Flash Point:	> 176 °C
Flash Point Method:	Closed Cup.
Auto Ignition Temp:	Not available.
Flammable Limits in air (%):	Not available.
Extinguishing Media:	Use water spray, foam, dry chemicals or carbon dioxide (CO2).
Hazardous Decomposition/ Combustion Materials:	Thermal decomposition products are toxic and may include oxides of carbon, nitrogen and sulphur.
Special Protective Equipment: Unusual Fire/Explosion Hazard:	Wear protective clothing and self-contained breathing apparatus. None.
NFPA RATINGS:	HEALTH 2; FLAMMABILITY 1; INSTABILITY: 0
HMIS RATINGS:	HEALTH 2; FLAMMABILITY 1; INSTABILITY: 0

Section 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures:	Wear appropriate protective equipment. Wear appropriate respiratory protection.
Environmental Precautionary Measures:	Prevent entry into sewers or streams, dike if needed. Prevent contamination of soil. Consult Local authorities.
Procedure for Clean-Up:	Isolate hazard area and restrict access. Stop the leak if it can be done without risk. Prevent contamination of waterways. Absorb with an inert dry material and place in an appropriate waste disposal container. Large spills, dike and pump into suitable containers. Clean up all residual with absorbent material. Place in appropriate container. Notify applicable government authority if release is reportable or could adversely affect the environment. Ventilate the area thoroughly.

Section 7 – HANDLING AND STORAGE

Handling:	For industrial use only. Use only with adequate ventilation. Handle and open containers with care. Avoid contact with eyes, skin and clothing. Do not ingest. Keep the containers closed when not in use. Protect against physical damage. Use appropriate personal protective equipment. Use normal "good" industrial hygiene and housekeeping practices.
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Storage: Store in a cool, dry, well ventilated area. Keep containers tightly closed. Do not store in open containers. Store under nitrogen.

Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Local exhaust ventilation is required to maintain exposure to within applicable limits. Make up air should be supplied to balance air that is removed by local or general exhaust ventilation.

Respiratory Protection: If exposure exceeds occupational exposure limits, use an appropriate NIOSH approved respirator. In case of spill or leak resulting in unknown concentration, use a NIOSH approved supplied air respirator.

Gloves: Impervious chemical resistant gloves.

Skin Protection: Skin contact should be prevented through the use of suitable protective clothing, gloves and footwear, selected for conditions of use and exposure potential.

Eyes: Chemical goggles; also wear a face shield if splashing hazard exists.

Other Personal Protective Data: Ensure that eyewash stations and safety showers are proximal to the work station location.

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Viscous liquid.
Colour: Light to very dark amber liquid
Specific Gravity: 1.2 g/cc @ 20°C
Boiling Point: Not applicable, decomposes.
Melting/Freezing Point: Not available
Vapour Pressure: Not available
Vapour Density (air = 1) Not available
Volatile Organic Compounds: No data available
Odour: Sweet, amine odour.
Odour Threshold: Not available
Evaporation Rate: Low

Section 10 – STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions.
Hazardous Polymerization: Will not occur.
Conditions to Avoid: Moisture and heat.
Materials to Avoid: Strong acids, bases, strong oxidizing agents, water.
Hazardous combustion Products: Oxides of carbon, nitrogen and sulphur.

Section 11 – TOXICOLOGICAL INFORMATION

Toxicological Data:	DMTDA	Butyl Benzyl Phthalate
Oral LD50:	> 1,515 mg/kg (Rat)	2,300 mg/kg (Rat)
Dermal LD50:	> 2,000 mg/kg (Rabbit)	>10,000 mg/kg (Rabbit)
Inhalation LC50:	Not available	> 6.7 mg/L (4 hr) (Rat)
Skin Contact:	Non-Irritating (Rabbit)	Non-Irritating (Rabbit)
Eye Contact:	Non-Irritating (Rabbit)	Risk of Serious Injury (Rabbit)
Sensitization:	Positive (guinea pig)	
Carcinogenicity:	IARC None indicated ACGIH None indicated	None indicated None indicated
Mutagenicity:	Positive	Not found

Section 12 - ECOLOGICAL INFORMATION

Ecotoxicological Information:	Ecotoxicity – Fish Species Data	Acute Invertebrates Toxicity:	Ecotoxicity Freshwater Algae
DMTDA	LC50 (Rainbow Trout) 16.9 mg/L	LC50 (Water flea) 0.9 mg/L	Not Available
Butyl Benzyl Phthalate	LC50 (Rainbow Trout) 2 mg/L.	EC50 (Water flea) 1 mg/L	Not Available
Biodegradability (DMTDA):	DMTDA is not biodegradable.		

Section 13 – DISPOSAL CONSIDERATIONS

Disposal of Waste Method:	Disposal of all wastes must be done in accordance with local, state/provincial and federal regulations.
Contaminated Packaging:	Empty containers should be recycled or disposed of through an approved waste management facility.

Section 14 – TRANSPORT INFORMATION

TDG (Ground Transport):	This product is Not Regulated.
IATA (Air Shipments):	
IMDG (Marine Shipments):	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical Description:	(di-(Methylthio)Toluenediamine)
Class:	9
UN ID:	UN 3082
Packing Group:	III
Special Note/Marking:	MARINE POLLUTANT

Section 15 – REGULATORY INFORMATION

U.S. TSCA Inventory Status: All compounds of this product are either on the Toxic Substances Control Act (TSCA) Inventory List or exempt.

Canadian DSL Inventory Status: All compounds of this product are either on the Domestic Substances List (DSL); the Non- Domestic Substances List (NDSL) or exempt.

Note: Not available.

US Regulatory Rules

CECLA/SARA Section 302:	SARA (311, 312) Hazard Class:	CERCLA/SARA Section 313:
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NR-606 components:	Not Listed	Listed	Listed
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California Proposition 65: Listed.

MA Right to Know List: Listed.

New Jersey Right-to-know List: Listed.

Pennsylvania Right to Know List: Listed.

WHMIS Hazardous Class: D2A VERY TOXIC MATERIALS causing other effects.

NFPA RATINGS: HEALTH 2; FLAMMABILITY 1; INSTABILITY: 0

HMIS RATINGS: HEALTH 2; FLAMMABILITY 1; INSTABILITY: 0

Section 16 – OTHER INFORMATION

All employees or contractors etc. who use this product must have access to this Material Safety Data Sheet.

This information is furnished without warranty, representation, inducement or licence of any kind, except that it is accurate to the best of Normac Adhesive Products Inc. knowledge or is obtained from sources believed by Normac Adhesive Products Inc. to be accurate. Normac Adhesive Products Inc. makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use or reliance on same. Customers are encouraged to conduct their own tests.

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PREPARED BY: Regulatory Affairs Group

*****END OF MSDS*****

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