

Product: 5645B

MATERIAL SAFETY DATA SHEET

SUPPLIER
ADCHEM ADHESIVES INC.
2670, PAULUS STREET
SAINT-LAURENT (QC)
H4S 1G1

EMERGENCY TELEPHONE NUMBER
(514) 337-7534

2696, SLOUGH ST.,
MISSISSAUGA (ONT.)
L4T 1G3

(905) 405-9346

EMERGENCY 24 HOURS

(613) 996-6666

SECTION I IDENTIFICATION AND USE

PRODUCT NUMBER	5645B
PRODUCT NAME	ADTHANE
PRODUCT USE	
CHEMICAL NAME/FAMILY	Adhesive containing a polyurethane prepolymer based on diphenylmethanediisocyanate.

Hazard descripton: Xn Harmful

Information pertaining to a particular dangers for men and environment:

R20 Harmful by inhalation

R36/37/38 Irritating to eyes, respiratory system and skin.

R42/43 May cause sensitization by inhalation and skin contact. Contains isocyanates

Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

NFPA Ratings: Health: +2 Fire: 1 Reactivity: 0

SECTION II REPORTABLE INGREDIENTS

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INGREDIENT	CAS #	%			
Diphenylmethanediisocyanate, isomers, homologues	9016-87-9	10-16%			
Dibutyl tin dilaurate C; R 22-34	77-58-7	0.01-0.05%			
2,2-Dimorpholinodimethylether	6425-39-4	0.05-0.3%			

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SECTION III PHYSICAL DATA

PURE MATERIAL OR MIXTURE	Mixture
PHYSICAL FORM	Fluid
APPEARANCE/ODOR	Brown/Light
pH AS IS	Not available
INITIAL BOILING POINT	>180°C
MELTING POINT	Undetermined
SOLUBILITY IN WATER	Insoluble
SPECIFIC GRAVITY (WATER=1)	Not available
VOLATILES (% W/W)	
EVAPORATION RATE	Not available
VAPOUR DENSITY (AIR=1)	1.115 (20°C)
VAPOUR PRESSURE (MM)	Not available
VISCOSITY DYNAMIC AT 25°C	2000 cps
VOC	1.70g/L

SECTION IV FIRE AND EXPLOSION DATA

AUTO-IGNITION TEMPERATURE	>200°C. This product is not self-igniting.
FLASH POINT	>100°C
UPPER EXPLOSIVE LIMIT (%)	Not available
LOWER EXPLOSIVE LIMIT (%)	Not available
SENSITIVE TO STATIC DISCHARGE	
SENSITIVE TO MECHANICAL IMPACT	
EXTINGUISH MEDIA	Carbon dioxide, fire-extinguishing powder, water spray. for safety reasons unsuitable extinguishing

	agents water with full jet.
SPECIAL FIREFIGHTING PROCEDURES	Wear self-contained respiratory protective device.
FIRE OR EXPLOSIVE HAZARD	
HAZARDOUS COMBUSTION PRODUCTS	In case of fire, the following can be released: Nitrogen oxides (NO _x), carbon monoxide (CO). In certain fire conditions, traces of other toxic gases cannot be excluded, e.g.: Hydrogen cyanide (HCN), Isocyanates.

SECTION V HEALTH EFFECTS DATA

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SHORT TERM EFFECTS OF EXPOSURE

ROUTE OF ENTRY

ACUTE EFFECTS--INGESTION	
ACUTE EFFECTS--SKIN	Can cause irritation to the skin.
ABSORPTION	
ACUTE EFFECTS--INHALATION	Can cause irritations to the respiratory system and mucous membrane..
ACUTE EFFECTS--EYE	Can cause irritation to the eyes.
OVEREXPOSURE SYMPTOMS	

LONG TERM EFFECTS OF EXPOSURE

EFFECTS OF CHRONIC EXPOSURE	Not available
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Primary irritant effect: On the skin: Irritant to skin and mucous membranes. **On the eye:** Irritating effect. Sensitization possible through inhalation.

SPECIAL HEALTH EFFECTS

CARCINOGENICITY	Not available
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TARGET ORGANS	Not available
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SECTION VI FIRST AID MEASURES

Symptoms of poisoning may even occur after several hours therefore medical observation for at least 48 hours after the accident .

INGESTION	Rinse out mouth with water. Do not induce vomiting; call for medical help immediately.
SKIN CONTACT	Immediately wash with water and soap and rinse thoroughly.
INHALATION	Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness, place patient stably in side position for transportation.
EYE CONTACT	Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

SECTION VII RECOMMENDATIONS FOR PERSONAL PROTECTIVE EQUIPMENT

CONDITIONS UNDER WHICH PPE REQ'D

EYE PROTECTION REQUIREMENTS	Tightly sealed goggles
GLOVE REQUIREMENTS	Protective gloves, PVA natural , butyl, nitrile or polychloroprene rubber gloves of superior quality. The selection fo the suitable glove does not only depend on the material but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
CLOTHING REQUIREMENTS	Protective work clothing
CHANGE/REMOVAL OF CLOTHING	Immediately remove soiled and contaminated clothing.
WASH REQUIREMENTS	Wash hands before breaks and at the end of work. Do not eat, drink, smoke while working.
RESPIRATOR REQUIREMENTS	In case of brief exposure or low pollution use respiratory filter device, B/P3. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
ENGINEERING CONTROLS REQUIRES	
GENERAL PROTECTIVE AND HYGIENIC MEASURES	Wash hands before breaks and at the end of work.

SECTION VIII REACTIVITY DATA

STABILITY	No decomposition if used according to specifications.
INCOMPATIBILITIES	Reacts with alcohol's, amines, aqueous acids and alkalis. Reacts with water forming carbon dioxide. Danger of receptacles bursting because of vapor over-pressure.
CONDITIONS TO AVOID	
HAZARDOUS DECOMPOSITION PRODUCTS	No dangerous decomposition products known.
HAZARDOUS POLYMERIZATION	Not available

SECTION IX SPILL AND LEAK PROCEDURES

SPILL AND LEAK PROCEDURES	Particular danger of slipping on leaked/spilled product. Ensure adequate ventilation. Use respiratory protective device against the effects of fumes/dust/aerosol. Do not allow product to reach sewage system or any water course. Pick up mechanically. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Send for recovery or disposal in suitable receptacles. Do not close them (reaction with water forming carbon dioxide). Dispose contaminated material as waste according to official regulations.
WASTE DISPOSAL METHODS	Must be disposed of in an incinerator for hazardous waste according to official regulations. Disposal must be made according to official regulations.
OTHER PRECAUTIONS	

SECTION X HANDLING AND STORAGE PRECAUTIONS

STORAGE TEMPERATURE	Not available
HANDLING/STORAGE	Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Traces of flammable substances may collect in the steam chamber of enclosed systems. Keep ignition sources clear. Store in a cool location. Keep receptacle tightly sealed. Protect from humidity and water.
OTHER PRECAUTIONS	
SPECIAL COMMENTS	



SECTION XI TOXICOLOGICAL INFORMATION

TOXICOLOGICAL:	<p>Carcinogenicity categories</p> <p>EPA (Environmental Protection Agency) 9016-87-9 diphenylmethanediisocyanate, isomers and homologues: D; CBD</p> <p>IARC (International Agency for Research on Cancer) None of the ingredients is listed.</p> <p>NTP (National Toxicology Program) None of the ingredients is listed.</p> <p>TLV (Threshold Limit Value established by ACGIH) 77-58-7 dibutyltin dilaurate: A4</p> <p>MAK (German Maximum Workplace Concentration) 9016-87-9 diphenylmethanediisocyanate, isomers and homologues: 3</p> <p>NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed.</p> <p>OSHA-Ca (Occupational Safety & Health Administration) None of the ingredients is listed.</p> <p>Product related hazard informations: - Hazard symbols: Xn Harmful Hazard-determining components of labelling: diphenylmethanediisocyanate, isomers and homologues</p> <p>- Risk phrases: 20 Harmful by inhalation. 36/37/38 Irritating to eyes, respiratory system and skin. 42/43 May cause sensitization by inhalation and skin contact.</p> <p>- Safety phrases: 23 Do not breathe vapour. 24 Avoid contact with skin. 37 Wear suitable gloves. 38 In case of insufficient ventilation, wear suitable respiratory equipment. 45 In case of accident or if you feel unwell, seek medical advice immediately.</p>
	<p>CURRENT EXPOSURE LIMITS</p> <p>Occupational exposure standards for isocyanates are based on respiratory irritation and sensitization and carcinogenesis. The exposure standards for MDI are outlined here.</p>

	<p>The OSHA PEL for MDI is 0.02 ppm (0.2 mg/m³) as a ceiling limit.</p> <p>The NIOSH REL for MDI is 0.005 ppm (0.05 mg/m³) as a TWA and 0.02 ppm (0.2 mg/m³) as a ceiling limit.</p> <p>The (ACGIH) American Conference of Governmental Industrial Hygienists (ACGIH) threshold limit value (TLV) for MDI is 0.005 ppm (0.05 mg/m³) as a TWA [ACGIH 1995].</p>
	<p>77-58-7 dilaurate de dibutylétain</p> <p>Oral: LD50: 175 mg/kg (rat)</p>

SECTION XII REGULATORY INFORMATION

T.D.G. INFORMATION

SHIPPING NAME	<p>Not regulated</p> <p>Land transport ADR/RID (cross-border)</p> <p>Remarks: Not hazardous</p>
P.I.N. NUMBER	
TDG CLASS	
PACKAGING GROUP	

WHMIS INFORMATION

CLASS	Not controlled
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WHMIS - RATINGS: HEALTH: +2 FIRE: 1 REACTIVITY: 0

SECTION XII TECHNICAL CONTACT

EXPIRATION DATE: 07/10/2010 Approved

FOR TECHNICAL INFORMATION, CONTACT:

2670, PAULUS STREET
SAINT-LAURENT (QC)
H4S 1G1

(514) 337-7534

IMPORTANT

The information given and the recommendations made herein apply to our products alone and not combine with other products. This information is based on our research and on data from reliable sources and is believed to be accurate. No guaranty of accuracy is made. It is the purchaser's or the user's responsibility before using any product to verify this data under their own operating conditions and to determine whether the product is suitable for their purposes.