

Product: 1885-2

**MATERIAL SAFETY DATA SHEET**

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**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**

**1885-2**

**PRODUCT NAME**

**ADFOAM**

**PRODUCT USE**

**Polyurethane foam**

**CHEMICAL NAME/FAMILY**

Mixture of PU-prepolymer and propellants

**SECTION II REPORTABLE INGREDIENTS**

<b>INGREDIENTS</b>	<b>%</b>	<b>CAS #</b>	<b>ACGIH TLV</b>	<b>NIOSH REL</b>	<b>OSHA PEL</b>
butane	<10	106-97-8	1900 mg/m3, 800 ppm	1900 mg/m3, 800 ppm	
propane	<10	74-98-6	4508 mg/m3, 2500ppm	1800 mg/m3, 1000 ppm	1800 mg/3, 1000 ppm
diphenylmethanediisocya nate, isomeres and homologues	30-60	9016-87-9	0.005 ppm		0.02 ppm

**NFPA RATINGS (Scale 0-4) Health = 2, Fire = 4, Ractivity = 3**

**HMIS RATINGS (Scale 0-4) Health = \*2, Fire = 4, Reactivity = 3**

### SECTION III PHYSICAL DATA

<b>PURE MATERIAL OR MIXTURE</b>	Mixture
<b>PHYSICAL FORM</b>	Aerosol
<b>APPEARANCE/ODOR</b>	Black, green, cream/Amine-like
<b>pH AS IS</b>	at 20°C (68°F): N/A
<b>INITIAL BOILING POINT</b>	Not available
<b>MELTING POINT</b>	Not available
<b>SOLUBILITY IN WATER</b>	Insoluble, reacts slowly with water or mist of water during cure, releasing traces of CO2
<b>SPECIFIC GRAVITY (WATER=1)</b>	at 20°C (68°F): .996 g/ml
<b>VOLATILES (% W/W)</b>	Not available
<b>EVAPORATION RATE</b>	Not available
<b>VAPOUR DENSITY (AIR=1)</b>	1.01
<b>VAPOUR PRESSURE (MM)</b>	Not available

### SECTION IV FIRE AND EXPLOSION DATA

**AUTO-IGNITION TEMPERATURE**

Product is not self-igniting. **Ignition temperature: 235°C**

**FLASH POINT**

<0°C (<32°F)

**UPPER EXPLOSIVE LIMIT (%)**

8%

**LOWER EXPLOSIVE LIMIT (%)**

4%

**SENSITIVE TO STATIC DISCHARGE**

Not available

**SENSITIVE TO MECHANICAL IMPACT**

Not available

**EXTINGUISH MEDIA**

Use water fog, dry chemical, foam fire extinguishing media or carbon dioxide extinguishing media. Keep containers cool. Use equipment or shielding to protect against bursting or venting of containers. For safety reasons unsuitable extinguishing agents: Water, water with full jet.

**SPECIAL FIREFIGHTING PROCEDURES**

Remove the container out of the danger zone because of the explosion hazard. Wear full protective equipment and a self-contained breathing apparatus should be used for all indoor fires and any significant outdoor fires. For small outdoor fires, which may easily be extinguished with a portable fire extinguisher, use of SCBA may not be required.

**FIRE OR EXPLOSIVE HAZARD**

Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, 122 F, i.e. electric lights. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material.

**HAZARDOUS COMBUSTION PRODUCTS**

Carbon monoxide, Carbon dioxide, oxides of nitrogen, short-chained carbon and nitrogen containing compounds.

**GENERAL HAZARD**

Uncured product contains diphenylmethane-4-4' diisocyanate that can cause allergic reaction to the skin. Inhalation of the vapor may result in respiratory allergies. Propellants are extremely flammable. Pressure in container rises with heating. If container is heated, the container could burst.

**SECTION V HEALTH EFFECTS DATA**

## SHORT TERM EFFECTS OF EXPOSURE

### ROUTE OF ENTRY

#### ACUTE EFFECTS--INGESTION

Swallowing large amounts may cause digestive discomfort.

#### ACUTE EFFECTS--SKIN

Irritant to skin and mucous membranes. Frequent or prolonged contact may cause dermatitis. May cause slight reddening if exposure is long or Irritation from contact with uncured product particularly eyes and mucous membranes. May cause skin irritation and aggravate allergic skin conditions. persons with known isocyanate allergies should avoid any skin contact with product ingredients Sensitization possible

#### ABSORPTION

Not available

#### ACUTE EFFECTS--INHALATION

Sensitization possible. May cause mild respiratory irritation in uncured state. May cause mild respiratory irritation in uncured state.

#### ACUTE EFFECTS--EYE

Uncured product is irritating to the eyes. Eye contact may result in moderate corneal injury and considerable redness lasting a week or more.

#### OVEREXPOSURE SYMPTOMS

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

## LONG TERM EFFECTS OF EXPOSURE

#### EFFECTS OF CHRONIC EXPOSURE

Repeated or prolonged contact may cause skin sensitization. Repeated or prolonged inhalation exposure may cause asthma.

## SPECIAL HEALTH EFFECTS

#### CARCINOGENICITY

No

#### TARGET ORGANS

Not available

## SECTION VI FIRST AID MEASURES

### INGESTION

Do not induce vomiting. Seek immediate medical attention. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

### SKIN CONTACT

Immediately wash with water and soap and rinse thoroughly. If the chemical touches the victim's exposed skin, gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

### INHALATION

Allow the victim to rest in a well ventilated area in a half-upright position. Seek immediate medical attention.

Loosen tight fitting clothing. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.

### EYE CONTACT

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lens. Do not use an eye ointment without seeking medical attention.

## SECTION VII RECOMMENDATIONS FOR PERSONAL PROTECTIVE EQUIPMENT

### CONDITIONS UNDER WHICH PPE REQ'D

<b>EYE PROTECTION REQUIREMENTS</b>	Tightly sealed goggles
<b>GLOVE REQUIREMENTS</b>	Impervious gloves
<b>CLOTHING REQUIREMENTS</b>	None specified
<b>CHANGE/REMOVAL OF CLOTHING</b>	Immediately remove all soiled and contaminated clothing
<b>WASH REQUIREMENTS</b>	Wash hands before breaks and at the end of work.
<b>RESPIRATOR REQUIREMENTS</b>	In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
<b>ENGINEERING CONTROLS REQUIRES</b>	Local ventilation
<b>GENERAL PROTECTIVE AND HYGIENIC MEASURES</b>	Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing.

#### SECTION VIII REACTIVITY DATA

<b>STABILITY</b>	Stable under normal storage conditions, installed foam is stable. Avoid water contamination, avoid alcohols, strong bases with metal compounds and contact with ammonia.
<b>INCOMPATIBILITIES</b>	Reaction at high temperatures may be violent.(Follow temperature storage conditions.
<b>CONDITIONS TO AVOID HAZARDOUS DECOMPOSITION PRODUCTS</b>	No dangerous decomposition products known.
<b>HAZARDOUS POLYMERIZATION THERMAL DECOMPOSITION/CONDITIONS TO AVOID</b>	Not available
<b>DANGEROUS REACTIONS</b>	No decomposition if used according to specifications.

#### SECTION IX SPILL AND LEAK PROCEDURES

**SPILL AND LEAK PROCEDURES**  
**WASTE DISPOSAL METHODS**

Contain spill and dispose in a proper container. Dispose contaminated material as waste. Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents. Must not be disposed together with household garbage. Do not allow product to reach sewage system. Disposal must be made according to official regulations.

**OTHER PRECAUTIONS**

**LAND SPILL:** Notify the appropriate authorities immediately. Take all additional action necessary to prevent and remedy the adverse effects of the spill. Eliminate ignition sources. Isolate hazard area and deny entry to unauthorized or unprotected personnel. **General notes:** Water hazard class 2 (Self-assessment): hazardous for water. Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

**SECTION X HANDLING AND STORAGE PRECAUTIONS**

**STORAGE TEMPERATURE**

Store in a cool dry location in closed packing at temperatures between 41°F and 77°F. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C/122°F, i.e. electric lights.

**HANDLING/STORAGE**

Observe official regulations on storing packagings with pressurized containers. Ensure adequate ventilation in the working place. Protect from sunlight and do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. **Storage Class:** Class according to regulation on flammable liquids: ORM-D

**OTHER PRECAUTIONS**

Incompatible with strong caustics, amines, alkali metal compounds, alcohols and water.

**SPECIAL COMMENTS**

Follow MSDS/label warnings even after container is emptied.

**SECTION XI TOXICOLOGICAL INFORMATION**

**TOXICITY TO ANIMALS**

**Inhalation:** LC50 Rat, inhalation (mg/4 hr): Unknown  
**Ingestion:** LD50 rat, oral (mg/kg): Unknown.  
**Skin contact:** LD50 Rat, dermatological (mg/kg):  
Unknown.      **Eye contact:** LD50 Rat, dermatological  
(mg/kg): >5000 mg/kg

**SECTION XII REGULATORY INFORMATION**

**T.D.G. INFORMATION**

<b>SHIPPING NAME</b>	Aerosol, flammable, n.o.s.
<b>P.I.N. NUMBER</b>	UN 1950
<b>TDG CLASS</b>	2.10
<b>PACKAGING GROUP</b>	

**WHMIS INFORMATION**

<b>CLASS</b>	B-2 Flammable liquid, B-3 Combustible liquid
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**SECTION 313 (Specific toxic chemical listings):** Product contains Diphenylmethane Diisocyanate (Cas 101-68-8) subject to the reporting limits of SARA 313 and is specifically addressed under CA, FL, MA, MN, NJ, and PA state regulations. For specific SARA reporting requirements in your jurisdiction contact your specific state agency having jurisdiction over Community Right to Know and Emergency Planning.

9016-87-9 diphenylmethanediisocyanate, isomers and homologues.

**TSCA (Toxic Substances Control Act):** All ingredients are listed.

**Other regulations, limitations and prohibitive regulations CERCLA:** Components of this product are listed under this statute.

**OTHER INFORMATION;** This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

## SECTION XII TECHNICAL CONTACT

**EXPIRATION DATE: 14/02/2005**

**FOR TECHNICAL INFORMATION, CONTACT:**

### **ADCHEM ADHESIVES INC.**

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### **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 guarantee 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.

