



ABATRON, INC.

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Material Safety Data Sheet

SECTION 1: PRODUCT

Product Name: L060330-2A

Product Code: Resin compound

Type: Adhesive

HIMS Code Health-1, Fire-2, reactivity-1

Hazard rating : 0=Least, 1=Slight, 2=Moderate, 3=high, 4=extreme

Date Prepared: 04/12/2006

Product Description: Aromatic polyisocyanate

SECTION 2: HAZARDOUS INGREDIENTS

4,4' diphenylmethane-diisocyanate
Modified MDI

CAS 101-68-8

% 50

50 (1)

TLV

0.0005 ppm

NA

(1) OSHA PEL for MDI is 0.02 ppm ceiling

SECTION 3: PHYSICAL DATA

Boiling Point: NA

Vapor Press: NA

Vapor Density (Air=1): NA

Appearance and Odor: Clear liquid. Almost no odor.

Sol. In Water: None

Sp. Gravity: 1.2

% Volatile by Vol.: <0.1

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point: >450 °F

Method Used: ASTM D92-96

Extinguishing Media: Foam, CO₂, and dry chemical.

Special Fire Fighting Equipment and Hazards: None

Flammable Limits (STP in Air)

LFL: Not deter. **UFL:** Not deter.

SECTION 5: HEALTH HAZARD DATA

Ingestion: Low Single oral toxicity : LD50 (rat) : >2000 mg/kg

Eye Contact: May cause irritation.

Skin Contact: No irritation is likely to develop following short contact periods with human skin. Skin sensitization and/or irritation may develop after repeated or prolonged contact with human skin. Preliminary data from a research study indicates that MDI in corn oil injected intradermally in guinea pigs can elicit a respiratory sensitization reaction. The potential for MDI to induce respiratory sensitization in humans and animals by inhalation is well-known, however this new data indicates that this effect may be induced by skin contact.

Skin Absorption: Not likely to be absorbed in toxic amounts.

Inhalation: Not likely a problem at room temperature. Vapors from heated material may be irritating.

Effect of Overexposure: None known.

First Aid Procedures:

Eyes: Irrigate with flowing water immediately for at least 10 minutes. Refer to medical personnel.

Skin: Wipe off excess. Scrub with soap and water. If redness, itching or a burning sensation develops seek medical attention.

Inhalation: Remove to fresh air if effects occur. Consult medical personnel.

Ingestion: Give 1-2 glasses of water to drink. Do not induce vomiting. Seek Medical attention.

Note to Physician:

Eyes: Injury is unlikely. Stain for evidence of corneal injury. Consult ophthalmologist.

Skin: May cause irritation. Treat as any contact dermatitis. Known or suspected weak sensitizer. Not likely to be absorbed in acutely toxic amounts.

Respiratory: Injury is unlikely.

Oral: Low in toxicity:

Systemic: Human effects not established. No specific antidote. Treatment based on the sound judgment of the physician and the individual reaction of the patient.

SECTION 6: REACTIVITY DATA

Stability: Stable under normal conditions. Prolonged or excessive heat may cause partial degradation.

Incompatibility: None known.

Hazardous Decomposition Products: None under normal conditions.

Hazardous Polymerization: None.

SECTION 7: SPILL, LEAK AND DISPOSAL PROCEDURES

Action to Take For Spills (Use Appropriate Safety Equipment): Soak in absorbent material or scrape up. Scrub with 5% acetic acid to emulsify; rinse with very hot water.

Disposal Method: STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Wear skin, eye and respiratory protection during clean up. Absorb with inert material (eg.- sand), scoop up and put into disposal container. Cover container- do not seal- and remove from work area. Treat the spill with a decontamination solution of 10 parts of solution for each part of the spill, and allow to react for a least 10 minutes. Carbon dioxide will be evolved, leaving insoluble polyureas. Uncontrolled spills which exceed one gallon may be reportable to the National Response Center.

Preparation of decontamination solution: Solution to contain 0.2-0.5% liquid detergent and 308% concentrated ammonium hydroxide in water (5-10 % sodium carbonate may be substituted for the ammonium hydroxide). Follow precaution on manufacturers' safety data sheets. All operations should be performed by trained personnel familiar with the hazards of the chemicals used.

Use of decontamination solution. Stir slowly the isocyanate waste into the decontamination solution described above using 10 parts of the solution for each part of the isocyanate. Let stand 48 hours allowing the evolved carbon dioxide to vent away. Neutralize the waste. Neither the solid nor the liquid portion is hazardous waste under RCRA 40 FR 261

CONTAINER DISPOSAL METHOD: Drums must be thoroughly drained before removal to an appropriate area for subsequent decontamination. Drums must be decontaminated in properly ventilated areas by personnel protected from the inhalation of isocyanate vapors. Spray or pour 5-15 liters of decontamination solution into the drum making sure the walls are well-rinsed. Leave the drum soaking unsealed for 48 hours. Pour out the decontaminated solution and triple rinse the empty container. Puncture or otherwise destroy the rinsed container before disposal. Note, that the disposal of the spent decontamination solution may be

subject to federal, state, or local regulations, ordinances or conditions of discharge permits. Local regulations should also be consulted before final disposal of decontaminated drums. Incinerate in furnace or bury in landfill in accordance with applicable local, state, and federal regulations.

SECTION 8: SPECIAL HANDLING INFORMATION

Ventilation: Sufficient to minimize vapor exposure if generated.

Respiratory Protection: None likely needed. Protective clothing: clean, body-covering clothing. Disposable plastic or rubber gloves. Disposable containers and paper in work area.

Eye Protection: Safety glasses.

Other Protective Equipment: impervious clothing- Tyvec, polyethylene, latex, rubber, PVC or poly laminated Tyvex, is especially impervious to isocyanate materials. neoprene/latex rubber clothing and some PVC garments exhibit limited resistance to permeation by MDI. Select protective clothing in accordance with "guidelines for the selection of Chemical Protective clothing" published by ACGIH.

SECTION 9: SPECIAL PRECAUTIONS AND ADDITIONAL INFORMATION

Precautions to Be Taken In Handling and Storage: None except normal handling care. Practice good caution and personal cleanliness to avoid eye and skin contact. Avoid breathing vapors if generated.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: TLV of suggested control value. No ACGIH TLV or OSHA PEL is assigned to this mixture. Control of exposure to below the PEL for the ingredients may not be sufficient. Minimize exposure in accordance with good hygiene practice. The ACGIH TLV for MDI is 0.0005 ppm 8-hr TWA. The OSHA PEL for MDI is 0.02 ppm ceiling. NIOSH recommends 0.005 {PPM TWA and 0.02 ppm STEL. These control limits do not apply to previously sensitized individuals or to individuals with existing respiratory diseases, such as chronic bronchitis, emphysema or asthma. Sensitized individuals should be removed from any further exposure.

ENGINEERING CONTROLS: If needed, use local exhaust ventilation to keep airborne concentrations below the TLV. Follow guidelines in the ACGIH publication "industrial ventilation". Exhaust air may be cleaned by scrubbers or filters to reduce environmental contamination.

OTHER PRECAUTIONS: prevent skin and eye contact. Observe TLV limits. Avoid breathing vapors and aerosols. Workers should shower and change to fresh clothing after each shift. A sensitized individual should not be exposed to the product which caused the sensitization. Store in tightly sealed containers to protect from atmospheric moisture. Store in a cool area. Individuals with existing respiratory disease such as chronic bronchitis emphysema or asthma should not be exposed to isocyanates. These individuals should be identified through baseline tests in an annual evaluation and removed from further exposure. Medical examination should include medical history, vital capacity and forced expiratory volume at one second.

SECTION 10: TRANSPORT INFORMATION

Proper Shipping Name: Not regulated

Hazardous Class: Not regulated

ID Number: Not regulated

Packing Group: Not regulated

SECTION 11- REGULATORY INFORMATION

TSCA: All ingredients are on the TSCA Chemical substance inventory

SARA TITLE III SECTION 313

This product contains the following toxic chemicals in the reporting requirements of section 313 of the emergency planning and community right to know act of 1986 and of CFR 72:

CAS	chemical name	% by weight
101-68-8	methylenebis(phenylisocyanate) 50	

PROP 65 – CARCINOGEN

Warning: this product contains a chemical known to the state of California to cause cancer

CAS	chemical name	% by weight
None		

PROP 65- TERATOGEN

Warning: this product contains a chemical known to the state of California to cause cancer

CAS	chemical name	% by weight
None		

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Material Safety Data Sheet

SECTION 1: PRODUCT

Product Name: L060330-2B

Product Code: Resin compound

Type: Coating

HIMS Code Health-1, Fire-2, reactivity-1

Hazard rating : 0=Least, 1=Slight, 2=Moderate, 3=high, 4=extreme

Date Prepared: 04/12/2006

Product Description: polyamine

SECTION 2: HAZARDOUS INGREDIENTS

	CAS	%	TLV
Di-(Methylthio)-Toluenediamine		5-25	NA
Proprietary tri-amine		ca.2	NA

SECTION 3: PHYSICAL DATA

Boiling Point: NA

Vapor Press: NA

Vapor Density (Air=1): NA

Appearance and Odor: Clear(or Black) heavy paste. Light ammonia odor.

Sol. In Water: NA

Sp. Gravity: 1.1

% Volatile by Vol.: <0.1

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point: >450 °F

Method Used: ASTM D92-96

Extinguishing Media: Foam, CO₂, and dry chemical.

Special Fire Fighting Equipment and Hazards: None

Flammable Limits (STP in Air)

LFL: Not deter. **UFL:** Not deter.

SECTION 5: HEALTH HAZARD DATA

Ingestion: Irritation and or damage of the mouth, pharynx esophagus and/or irritation may develop following ingestion .

Eye Contact: Extreme irritation.

Skin Contact: minor irritation.

Skin Absorption: No significant hazard.

Inhalation: The tri amine catalyst released from this mixture may induce nasal irritation, dizziness, fatigue, nausea and headache. Tri amines catalysts may be released during normal processing conditions. Proper precautionary steps should be taken to maintain amine levels below irritating levels. High vapor concentrations of amine catalysts may cause lung damage and glaucopsial.

Effect of Overexposure: May cause skin sensitization. None other known.

First Aid Procedures:

Eyes: Irrigate with flowing water immediately for 5 minutes. Refer to medical personnel.

Skin: Wipe off excess. Scrub with soap and water followed by a water rinse. Wash clothing before reuse.

Inhalation: Remove to fresh air if effects occur. Consult medical personnel.

Ingestion: Low in toxicity. Induce vomiting if large amounts are ingested.

Note to Physician:

Eyes: Extremely irritating. Stain for evidence of corneal injury. Consult ophthalmologist.

Skin: Acute dermal toxicity. Treat as contact dermatitis. Known or suspected sensitizer. Not likely to be absorbed in acutely toxic amounts.

Respiratory: Injury is unlikely.

Oral: Toxicity:

Systemic: Human effects not established. No specific antidote. Treatment based on the sound judgment of the physician and the individual reaction of the patient.

SECTION 6: REACTIVITY DATA

Stability: Stable under normal conditions. Prolonged excessive heat may cause partial degradation.

Incompatibility: None known.

Hazardous Decomposition Products: None under normal conditions.

Hazardous Polymerization: None.

SECTION 7: SPILL, LEAK AND DISPOSAL PROCEDURES

Action to Take For Spills (Use Appropriate Safety Equipment): Soak in absorbent material or scrape up. Scrub with 5% acetic acid to emulsify; rinse with very hot water.

Disposal Method: Bury in appropriate landfill. (Optional) Burn combustible portion in adequate incinerator.

SECTION 8: SPECIAL HANDLING INFORMATION

Ventilation: Sufficient to minimize vapor exposure if generated.

Respiratory Protection: None likely needed.

Protective clothing: Clean, body-covering clothing. Disposable plastic or rubber gloves. Disposable containers and paper in work area.

Eye Protection: Safety glasses.

SECTION 9: SPECIAL PRECAUTIONS AND ADDITIONAL INFORMATION

Precautions to Be Taken In Handling and Storage: None except normal handling care. Practice good caution and personal cleanliness to avoid eye and skin contact. Avoid breathing vapors if generated.

SECTION 10: TRANSPORT INFORMATION

Proper Shipping Name: Not regulated

Hazardous Class: Not regulated

ID Number: Not regulated

Packing Group: Not regulated

SECTION 11- REGULATORY INFORMATION

TSCA: All ingredients are on the TSCA Chemical substance inventory

SARA TITLE III

CATEGORY: Immediate health, delayed health, fire

This product contains the following toxic chemicals in the reporting requirements of section 313 of the emergency planning and community right to know act of 1986 and of CFR 72:

CAS	chemical name	% by weight
75218	ethelene oxide	0.002

PROP 65 – CARCINOGEN

Warning: this product contains a chemical known to the state of California to cause cancer

CAS	chemical name	% by weight
	None	

PROP 65- TERATOGEN

Warning: this product contains a chemical known to the state of California to cause cancer

CAS	chemical name	% by weight
	None	

CERCLA: Requires notification to the NRC of the release of quantities of hazardous substances equal to or grater than the RQ in CFR 302.4 components present in this product at levels which could require reporting under the stature are: Ethylene Oxide.

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