



SAFETY DATA SHEET

A Component

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Printed: 03/01/2018

Revision: 02/20/2018

Supersedes Revision: 02/06/2018

1. PRODUCT AND COMPANY IDENTIFICATION

Product Code: A COMP
Product Name: A Component

Manufacturer Information:
Company Name: SWD URETHANE
539 S. Drew St.
Mesa, AZ 85210,
Web site address: www.swdurethane.com
Emergency Contact: CHEMTREC
(800) 424-9300

Supplier Name and Address:
Company Name: Micon
Phone Number: (412)664-7788
Emergency Contact: CHEMTREC
(800) 424-9300

2. HAZARDS IDENTIFICATION

Acute Toxicity: Inhalation, Category 4
Skin Corrosion/Irritation, Category 2
Serious Eye Damage/Eye Irritation, Category 2A
Respiratory Sensitization, Category 1
Carcinogenicity, Category 2
Specific Target Organ Toxicity (single exposure), Category 3
Specific Target Organ Toxicity (repeated exposure), Category 1
Skin Sensitization, Category 1



GHS Signal Word: Danger

GHS Hazard Phrases: H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H332 - Harmful if inhaled.
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 - May cause respiratory irritation.
H336 - May cause drowsiness or dizziness.
H351 - Suspected of causing cancer .
H373 - May cause damage to through prolonged or repeated exposure.

GHS Precaution Phrases: P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
P264 - Wash hands thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P280 - Wear protective gloves/protective clothing/eye protection with side shields.
P285 - In case of inadequate ventilation wear respiratory protection.
P281 - Use personal protective equipment as required.

GHS Response Phrases: P302+352 - IF ON SKIN: Wash with plenty of soap and water.
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P304+341 - IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a



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position comfortable for breathing.

P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+313 - IF exposed or concerned: Get medical attention/advice.

P312 - Call a POISON CENTER or doctor/physician if you feel unwell.

P314 - Get medical attention/advice if you feel unwell.

P321 - Specific treatment see Section 4 First Aid measures.

P332+313 - If skin irritation occurs, get medical advice/attention.

P333+313 - If skin irritation or rash occurs, seek medical advice/attention.

P337+313 - If eye irritation persists, get medical advice/attention.

P342+311 - If experiencing respiratory symptoms call a POISON CENTER or doctor/physician.

P362+364 - Take off contaminated clothing and wash it before reuse.

P313 - Get medical advice/attention.

P311 - Call a POISON CENTER or doctor/physician.

P501 - Dispose of contents/container to accordance with Section 13.

P403+233 - Store container tightly closed in well-ventilated place.

GHS Storage and Disposal Phrases:

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
101-68-8	Methylenebis(phenylisocyanate) {MBI; Methylene diphenyl diisocyanate; MDI; Diphenylmethane-4,4'-diisocyanate}	30.0 -40.0 %
9016-87-9	Polymeric diphenylmethane diisocyanate {Isocyanic acid, Poly	50.0 -60.0 %
5873-54-1	Benzene, 1-Isocyanato-2-[(4-isocyanatophenyl)methyl]- {o-(p-Isocyanatobenzyl)phenyl isocyanate}	1.0 -5.0 %

4. FIRST AID MEASURES

Emergency and First Aid

Procedures:

In Case of Inhalation:	May cause severe irritation to upper respiratory tract and lungs, respiratory sensitization, decreased lung capacity. Remove from exposure area to fresh air. Administer oxygen or artificial respiration as needed. Obtain medical attention.
In Case of Skin Contact:	Remove contaminated clothing. Clean affected area with soap and plenty of water. Call a physician if irritation or rash develops.
In Case of Eye Contact:	Rinse opened eye for at least 15 minutes under running water. Remove contact lenses if present and easy to do so, and continue rinsing.
In Case of Ingestion:	Do not induce vomiting. If conscious, give 1 to 2 cups of milk or water to drink. Consult a physician at once.
Note to Physician:	Treat symptomatically. Following severe exposure the patient should be kept under medical observation for at least 48 hours.



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5. FIRE FIGHTING MEASURES

Flash Pt: 446.00 F**Explosive Limits:** LEL: UEL:**Autoignition Pt:****Suitable Extinguishing Media:** Water spray, CO2, Foam, Dry chemical.**Fire Fighting Instructions:** Full emergency equipment with self contained breathing apparatus and full protective clothing should be worn by firefighters.**Flammable Properties and Hazards:** Information about Protection against Explosions and Fires: Closed containers may rupture when exposed to extreme heat.**Hazardous Combustion Products:** Dangerous Products of Decomposition: Oxides of carbon, oxides of nitrogen, hydrocarbons, and traces of HCN.

6. ACCIDENTAL RELEASE MEASURES

Protective Precautions, Protective Equipment and Emergency Procedures: Evacuate all non-essential personnel. Avoid contact with skin. Do not breathe aerosols or vapors.**Environmental Precautions:** Cover and contain spill with rock dust or absorbent material. Place waste in open container. Remove to well ventilated area and dilute with ammonia solution (water 90%, concentrated ammonia 8%, detergent 2%). Collect for proper disposal according to local, state, and federal regulations.**Steps To Be Taken In Case Material Is Released Or Spilled:**

7. HANDLING AND STORAGE

Precautions To Be Taken in Handling: Do not breathe fumes, vapors or mists. Use only with adequate ventilation. Avoid contact with skin or eyes. Immediately report spills or leaks.**Precautions To Be Taken in Storing:** Store in dry, well ventilated area. Keep containers tightly closed. Store between 20 degrees F - 105 degrees F.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
101-68-8	Methylenebis(phenylisocyanate) {MBI; Methylene diphenyl diisocyanate; MDI; Diphenylmethane-4,4'-diisocyanate}	CEIL: 0.02 ppm	TLV: 0.005 ppm	
9016-87-9	Polymeric diphenylmethane diisocyanate {Isocyanic acid, Poly			
5873-54-1	Benzene, 1-Isocyanato-2-[(4-isocyanatophenyl)methyl]- {o-(p-Isocyanatobenzyl)phenyl isocyanate}	TWA: 5 mg/m3	CEIL: 5 mg/m3 (salts)	



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Respiratory Equipment (Specify Type):	Do not inhale vapors. Use NIOSH approved respiratory protection if TLV/PEL is exceeded. Do not enter storage area unless adequately ventilated.
Eye Protection:	Chemical safety goggles or face shield or safety glasses with side shields.
Protective Gloves:	Protective butyl rubber or nitrile rubber gloves.
Other Protective Clothing:	Protective work clothing. Launder separately.
Engineering Controls (Ventilation etc.):	Use local exhaust ventilation to maintain airborne concentrations below the TLV, especially if heating or spraying. Use only in a well ventilated area to keep vapors below exposure limits. Use local exhaust ventilation if necessary.
Work/Hygienic/Maintenance Practices:	Usual precautionary measures should be adhered to when handling chemicals.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States:	<input type="checkbox"/> Gas	<input checked="" type="checkbox"/> Liquid	<input type="checkbox"/> Solid
Appearance and Odor:	Musty.		
	Brown.		
pH:			
Melting Point:			
Boiling Point:			
Flash Pt:	446.00 F		
Evaporation Rate:			
Flammability (solid, gas):			
Explosive Limits:	LEL:		UEL:
Vapor Pressure (vs. Air or mm Hg):			
Vapor Density (vs. Air = 1):			
Specific Gravity (Water = 1):	1.23		
Solubility in Water:			
Octanol/Water Partition Coefficient:			
Autoignition Pt:			
Decomposition Temperature:			
Viscosity:			

10. STABILITY AND REACTIVITY

Stability:	Unstable <input type="checkbox"/>	Stable <input checked="" type="checkbox"/>
Conditions To Avoid - Instability:		
Incompatibility - Materials To Avoid:	Water. Amines, Strong bases, Alcohols.	
Hazardous Decomposition or Byproducts:	Oxides of carbon, oxides of nitrogen, hydrocarbons, and traces of HCN. Isocyanates.	
Possibility of Hazardous Reactions:	Will occur <input type="checkbox"/>	Will not occur <input checked="" type="checkbox"/>
Conditions To Avoid - Hazardous Reactions:		



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11. TOXICOLOGICAL INFORMATION

Toxicological Information:	<p>Acute Health Effects: Eyes: Severe irritation, tearing, swelling, and possible damage to cornea. Skin: Irritation, redness, swelling, skin sensitization, rash, scaling, and blistering. Inhalation: Mucous membrane and respiratory tract irritation, tightness of chest, isocyanate sensitization. Ingestion: Irritating and corrosive to mouth, stomach, and digestive tract.</p> <p>CAS# 101-68-8:</p> <p>Acute toxicity, LD50, Dermal, Rat, 1.000 MG/L.</p> <p>Results:</p> <p>Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Eye:Lacrimation.</p> <p>Behavioral: Tremor.</p> <p>Lungs, Thorax, or Respiration:Cyanosis.</p> <p>Acute toxicity, LC50, Oral, Rat, 369.0 MG/M3.</p> <p>Results:</p> <p>Kidney, Ureter, Bladder: Changes in bladder weight.</p> <p>CAS# 9016-87-9:</p> <p>Not reported., LC50, Not reported., Rat, 490.0 MG/M3; National Technical Information Service, Vol/p/yr: OTS05, 6728</p> <p>Not reported., LD50, Dermal, Rat, 490.0 MG/L.</p> <p>Not reported., LC50, Not reported., Rat, 490.0 MG/M3.</p> <p>CAS# 5873-54-1:</p> <p>Not reported., LD50, Dermal, Rat, 1.000 MG/L, 24 H; European Journal of Toxicology and Environmental Hygiene., For publisher information, see TOERD9, Paris France, Vol/p/yr: 9,41, 1976</p>
Symptoms related to Toxicological Characteristics:	<p>Conditions Aggravated by Exposure: Asthma, respiratory disorders, skin allergies, eczema.</p>
Chronic Toxicological Effects:	<p>Isocyanates may cause skin and respiratory sensitivity in some individuals. Sensitized individuals may react to very low levels diisocyanates below the PEL. Sensitized people who continue to work with diisocyanates may develop symptoms sooner after each exposure. Limited evidence of possible carcinogenic effects.</p>
Carcinogenicity/Other Information:	<p>Routes of Entry: Inhalation, ingestion, skin contact, eye contact.</p> <p>Target Organs: Respiratory track, eyes, skin.</p> <p>Cas Number: 5873-54-1, Description: Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]-, % Weight: 1 to 5%, Carcinogen Rating: Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]- CAS Number: 101-68-8, Description: 4,4'-Methylenediphenyl diisocyanate, %Weight: 30 to 40%, Carcinogen Rating: 4,4'-Methylenediphenyl diisocyanate.</p>

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
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101-68-8	Methylenebis(phenylisocyanate) {MBI; Methylene diphenyl diisocyanate; MDI; Diphenylmethane-4,4'-diisocyanate}	3
9016-87-9	Polymeric diphenylmethane diisocyanate {Isocyanic acid, Poly	3
5873-54-1	Benzene, 1-Isocyanato-2-[(4-isocyanatophenyl)methyl]- {o-(p-Isocyanatobenzyl)phenyl isocyanate}	

12. ECOLOGICAL INFORMATION

General Ecological Information:

Based on experience, no adverse effects are to be expected if correct disposal procedures have been followed as indicated in section 13. Individual component ecotoxicity listed if known.
CAS# 101-68-8:
LC50, No data available. , > 500.0 MG/L, 24 H, Biochemistry.
Effective concentration to 0% of test organisms., No data available. , > 500.0 MG/L, 24 H, Population.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method:

Observe local requirements. Dispose of in accordance with local/state/federal regulations.

14. TRANSPORT INFORMATION

GHS Classification:

Acute Toxicity: Inhalation, Category 4 - Warning! Harmful if inhaled
Skin Corrosion/Irritation, Category 2 - Warning! Causes skin irritation
Serious Eye Damage/Eye Irritation, Category 2A - Warning! Causes serious eye irritation
Respiratory Sensitization, Category 1 - Danger! May cause allergy or asthma symptoms or breathing difficulties if inhaled
Carcinogenicity, Category 2 - Warning! Suspected of causing cancer
Specific Target Organ Toxicity (single exposure), Category 3 - Warning! May cause respiratory irritation, or may cause drowsiness and dizziness
Specific Target Organ Toxicity (repeated exposure), Category 1 - Danger! Causes damage to {<target organs>} through prolonged or repeated exposure
Skin Sensitization, Category 1 - Warning! May cause an allergic skin reaction

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Environmentally Hazardous Substance, N.O.S. (Contains Diphenylmethane Diisocyanate)

DOT Hazard Class: 9 CLASS 9

UN/NA Number: 3082

Packing Group: III

LAND TRANSPORT (Canadian TDG):

TDG Shipping Name: Not Regulated.

UN Number: 3082

Packing Group: III

Hazard Class: 9 - CLASS 9

TDG Classification:

MARINE TRANSPORT (IMDG/IMO):

IMDG/IMO Shipping Name: Not Regulated.

AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Not Regulated.

Additional Transport Information:

DOT Regulated Components: 4,4' Methylene Diphenyl Diisocyanate
Reportable Quantity: 5000 lbs. When in individual containers of less than the substance RQ, this material ships as non-regulated. Containers above RQ ship as:



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15. REGULATORY INFORMATION

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
101-68-8	Methylenebis(phenylisocyanate) {MBI; Methylene diphenyl diisocyanate; MDI; Diphenylmethane-4,4'-diisocyanate}	No	Yes 5000 LB	Yes-Cat. N120
9016-87-9	Polymeric diphenylmethane diisocyanate {Isocyanic acid, Poly	No	No	Yes-Cat. N120
5873-54-1	Benzene, 1-Isocyanato-2-[(4-isocyanatophenyl)methyl]- {o-(p-Isocyanatobenzyl)phenyl isocyanate}	No	No	Yes-Cat. N106

CAS # Hazardous Components (Chemical Name)

Other US EPA or State Lists

101-68-8	Methylenebis(phenylisocyanate) {MBI; Methylene diphenyl diisocyanate; MDI; Diphenylmethane-4,4'-diisocyanate}	CAA HAP,ODC: HAP; CWA NPDES: No; TSCA: Yes - Inventory, 8C; CA PROP.65: No; CA TAC, Title 8: TAC, Title 8; MA Oil/HazMat: No; MI CMR, Part 5: Part 5; NC TAP: Yes; NJ EHS: Yes - Cat.; NY Part 597: Yes; PA HSL: Yes - E; SC TAP: Yes; WI Air: Yes
9016-87-9	Polymeric diphenylmethane diisocyanate {Isocyanic acid, Poly	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory, 8C, 8D TERM; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: Yes - Cat.; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No
5873-54-1	Benzene, 1-Isocyanato-2-[(4-isocyanatophenyl)methyl]- {o-(p-Isocyanatobenzyl)phenyl isocyanate}	CAA HAP,ODC: Yes - Cat.; CWA NPDES: No; TSCA: Yes - Inventory, 8C, 8D TERM; CA PROP.65: No; CA TAC, Title 8: Yes - Cat.; MA Oil/HazMat: No; MI CMR, Part 5: Yes - Cat.; NC TAP: Yes - Cat.; NJ EHS: Yes - Cat.; NY Part 597: No; PA HSL: No; SC TAP: Yes - Cat.; WI Air: No

CAS # Hazardous Components (Chemical Name)

International Regulatory Lists

101-68-8	Methylenebis(phenylisocyanate) {MBI; Methylene diphenyl diisocyanate; MDI; Diphenylmethane-4,4'-diisocyanate}	Canadian DSL: Yes; Canadian NDSL: No
9016-87-9	Polymeric diphenylmethane diisocyanate {Isocyanic acid, Poly	Canadian DSL: Yes; Canadian NDSL: No
5873-54-1	Benzene, 1-Isocyanato-2-[(4-isocyanatophenyl)methyl]- {o-(p-Isocyanatobenzyl)phenyl isocyanate}	Canadian DSL: Yes; Canadian NDSL: No

Regulatory Information:

OSHA HAZARD COMMUNICATION STANDARD: This material is classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

SARA 311/312 Hazard Categories: Acute health hazard, chronic health hazard.

California Proposition 65: This product contains no substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute unless otherwise listed:

Massachusetts Right To Know List: 4,4'-Methylenediphenyl diisocyanate 101-68-8 30 to 40%

New Jersey Right To Know List: Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9 50 to 60%



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Pennsylvania Right To Know List: 4,4'-Methylenediphenyl diisocyanate 101-68-8 30 to 40%

Chemicals subject to SARA 313 Reporting: 4,4'-Methylenediphenyl diisocyanate
101-68-8 30 to 40% Emissions

Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9 50 to 60% Emissions

All Substances Listed on TSCA Inventory Unless Noted: None

16. OTHER INFORMATION

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Additional Information About
This Product: