1. PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Product Code:</th>
<th>QS 951 B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Name:</td>
<td>Quik-Shield 951 B</td>
</tr>
<tr>
<td>Trade Name:</td>
<td>Quik-Shield</td>
</tr>
</tbody>
</table>

Manufacturer Information

<table>
<thead>
<tr>
<th>Company Name:</th>
<th>SWD URETHANE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address:</td>
<td>539 S. Drew St.</td>
</tr>
<tr>
<td>City:</td>
<td>Mesa, AZ</td>
</tr>
<tr>
<td>Zip:</td>
<td>85210,</td>
</tr>
<tr>
<td>Website:</td>
<td><a href="http://www.swdurethane.com">www.swdurethane.com</a></td>
</tr>
<tr>
<td>Revision Date:</td>
<td>08/27/2013</td>
</tr>
</tbody>
</table>

2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>Concentration</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Glycol ether</td>
<td>NA</td>
<td>10.0 -20.0 %</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Polyether diamine</td>
<td>NA</td>
<td>10.0 -20.0 %</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. (Trade Secret)</td>
<td>NA</td>
<td>5.0 -15.0 %</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Amine catalyst</td>
<td>NA</td>
<td>&lt; 2.0 %</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. Tin catalyst</td>
<td>NA</td>
<td>&lt; 1.0 %</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3. HAZARDS IDENTIFICATION

Potential Health Effects (Acute and Chronic):

Adverse reproductive effects have been reported in animals.

May cause kidney damage.

Animal studies have reported the development of tumors.

Inhalation:

May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Acute inhalation toxicity was evaluated in guinea pigs exposed to triethylene diamine at a measured concentration of 8.9 ppm for a period of 1 hour. Clinical observations included slight dyspnea and somewhat elevated airway resistance. (Olin Corp. May cause burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting.

Skin Contact:

Causes skin irritation. May be harmful if absorbed through the skin. Passage of diethylene glycol into the body through the skin is possible, but it is unlikely that this would result in harmful effects during safe handling and use. Causes skin burns. May cause skin irritation. When a solution of 10% TEDA in water was applied to the skin of 5 mice for 2 weeks, 2 of the mice died from bleeding in the prostate gland. Two other mice also had bleeding of the prostate gland but did not die. There was no sign of skin damage.

Eye Contact:

Causes eye irritation. Causes eye burns. Risk of serious damage to eyes. A single exposure to TEDA vapor can cause slight swelling of the front part of the eye (cornea). This may result in a "halo" vision effect beginning up to several hours after exposure. Symptoms include hazy, foggy and sometimes blurry vision, and seeing blue halos around lights. Recovery usually occurs within a day. It is not certain what levels of TEDA vapor cause this effect. Minor corneal injury occurred when 0.5 ml of a solution of 5% TEDA in water was applied to rabbit eyes. A 15% solution caused moderate injury, and a 25% solution burned the eyes. Causes redness and pain.
Ingestion: Harmful if swallowed. May cause irritation of the digestive tract. Ingestion of large amounts may cause gastrointestinal irritation. Toxic if swallowed.

Signs and Symptoms Of Exposure: Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Cough, Shortness of breath, Headache. Nausea.

Medical Conditions Generally Aggravated By Exposure:

4. FIRST AID MEASURES

Emergency and First Aid Procedures:

In Case of Inhalation: Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Get medical aid. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In Case of Skin Contact: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician. Get medical aid if irritation develops or persists. Wash clothing before reuse.

In Case of Eye Contact: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital. If irritation develops, get medical aid.

In Case of Ingestion: Do NOT induce vomiting. Get medical aid immediately. Call a poison control center. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. Get medical aid. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Note to Physician: Treat symptomatically and supportively. Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

5. FIRE FIGHTING MEASURES

Flash Pt: 
Explosive Limits: LEL: UEL: 
Autoignition Pt: 
Fire Fighting Instructions: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Wear self contained breathing apparatus for fire fighting if necessary. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Will burn if involved in a fire. Flammable Solid.

Flammable Properties and Hazards: 
Hazardous Combustion Products: 
Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or chemical foam. Use agent most appropriate to extinguish fire. 
Unsuitable Extinguishing Media:
6. ACCIDENTAL RELEASE MEASURES

Steps To Be Taken In Case Material Is Released Or Spilled:

Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Do not let this chemical enter the environment.
Personal precautions.
Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
Environmental precautions.
Do not let product enter drains.

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Remove all sources of ignition. Use a spark-proof tool.

7. HANDLING AND STORAGE

Precautions To Be Taken in Handling:

Use with adequate ventilation. Do not ingest or inhale. Avoid inhalation of vapor or mist.
Normal measures for preventive fire protection. Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Use spark-proof tools and explosion proof equipment. Keep away from heat, sparks and flame. Do not breathe dust, mist, or vapor. Use only in a chemical fume hood.

Precautions To Be Taken in Storing:

Store in a cool, dry place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in a tightly closed container. Keep from contact with oxidizing materials. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from sources of ignition. Refrigerator/flammables.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Equipment (Specify Type):

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use. Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149.

Eye Protection:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Not available.

Protective Gloves:

Wear appropriate protective gloves to prevent skin exposure. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with
applicable laws and good laboratory practices. Wash and dry hands.

**Other Protective Clothing:**
Wear appropriate protective clothing to prevent skin exposure. Complete suit protecting against chemicals.

**Engineering Controls (Ventilation etc.):**
Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

**Work/Hygienic/Maintenance Practices:**
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical States:**
[ ] Gas [X] Liquid [ ] Solid

**Melting Point:**

**Boiling Point:**

**Autoignition Pt:**

**Flash Pt:**

**Specific Gravity (Water = 1):**

**Vapor Pressure (vs. Air or mm Hg):**

**Vapor Density (vs. Air = 1):**

**Evaporation Rate:**

**Solubility in Water:**

**Percent Volatile:**

**Appearance and Odor:**
Viscous. Musty.

### 10. STABILITY AND REACTIVITY

**Stability:**
Unstable [ ] Stable [X]

**Conditions To Avoid - Instability:**
Incompatible materials, Excess heat, No data available. Ignition sources, dust generation.

**Incompatibility - Materials To Avoid:**
Strong oxidizing agents, Strong acids, Plastics, Zinc, acids, Peroxides.

**Hazardous Decomposition Or Byproducts:**
Carbon monoxide, formed under fire conditions. Carbon oxides, nitrogen oxides (NOx), irritating and toxic fumes and gases, Carbon dioxide, nitrogen oxides (NOx) and ammonia (NH3).

**Hazardous Polymerization:**
Will occur [ ] Will not occur [X]

**Conditions To Avoid - Hazardous Polymerization:**

### 11. TOXICOLOGICAL INFORMATION

**Toxicological Information:**
Epidemiology: Tumorigenic effects have been reported in experimental animals. Teratogenicity: Teratogenic effects have occurred in experimental animals. Reproductive Effects: Adverse reproductive effects have occurred in experimental animals. Mutagenicity: No information found. Neurotoxicity: Neurotoxic effects have occurred in experimental animals. Other Studies: No information available. TEDA may cause neurological effects as indicated by transient experimental effects on blood pressure in dogs. No data available.
Chronic Toxicological Effects:

Irritation or Corrosion:
- Skin - rabbit - Corrosive.
- Serious eye damage/eye irritation:
- Eyes - rabbit - Severe eye irritation.

Carcinogenicity/Other Information:
- CAS# 111-46-6: Not listed by ACGIH, IARC, NTP, or CA Prop 65.
- IARC: No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible or confirmed human carcinogen by IARC.
- ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
- CAS# 8001-79-4: Not listed by ACGIH, IARC, NTP, or CA Prop 65.
- CAS# 280-57-9: Not listed by ACGIH, IARC, NTP, or CA Prop 65.
- CAS# 77-58-7: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

12. ECOLOGICAL INFORMATION

General Ecological Information:
- Environmental: Estimated Koc value = 1. It will not be expected to adsorb to suspended solids and sediments in water.
- Physical: No information found.
- Other: Estimated BCF value = 0.05. This value indicates that this product will exhibit low bioconcentration in aquatic organisms. No information available.
- Physical: No information available.
- Other: Do not empty into drains. Other: Avoid entering into waters or underground water.

Persistence and Degradability: Biodegradability:

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method:
- Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. RCRA P-Series: None listed.
- RCRA U-Series: None listed. Product.
- Offer surplus and non-recyclable solutions to a licensed disposal company.
- Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
- Contaminated packaging.
- Dispose of as unused product.

14. TRANSPORT INFORMATION

LAND TRANSPORT (Canadian TDG)

TDG Shipping Name: Not Regulated. No information available.

Additional Transport Information:
15. REGULATORY INFORMATION

**Canadian WHMIS Classification**

- CLASS D, DIVISION 2, SUBDIVISION A: Very Toxic Materials (carcinogens, reproductive toxicity, etc.)
- CLASS B, DIVISION 4: Flammable Solids
- CLASS E: Corrosive Materials
- CLASS D, DIVISION 1, SUBDIVISION B: Toxic Materials (moderate LD50 values)

16. OTHER INFORMATION

**Company Policy or Disclaimer**

While the information and recommendations in this publication are given to the best of our knowledge, and information at the date of publication, nothing herein is to be construed as a warranty, expressed or otherwise. In all cases, it is the responsibility of the user to determine the applicability of such information, and recommendations or the suitability of any product for its own particular purpose.

The product may present hazards and should be used with caution. While certain hazards are described in this Safety Data Sheet, no guarantee is made that these are the only hazards that exist. Hazards, toxicity and behavior of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behavior should be determined by the user and made known to handlers, processors and end users.

NO PERSON OR ORGANIZATION EXCEPT A DULY AUTHORIZED SWD EMPLOYEE SHALL PROVIDE, OR MAKE AVAILABLE, DATA SHEETS FOR SWD PRODUCTS. DATA SHEETS FROM UNAUTHORIZED SOURCES MAY CONTAIN INFORMATION THAT IS NO LONGER CURRENT OR ACCURATE. NO PART OF THIS DATA SHEET MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM, OR BY ANY MEANS, WITHOUT THE WRITTEN PERMISSION OF SWD. ALL REQUESTS FOR PERMISSION TO REPRODUCE MATERIAL FROM THIS DATA SHEET OR QUESTIONS REGARDING THIS DATA SHEET SHOULD BE DIRECTED TO SWD AT 800-828-1394.

N.A.=Not available, N.P.=Not applicable, N.D.=Not determined, N.E.=Not established, N.R.=Not required
1. PRODUCT AND COMPANY IDENTIFICATION

Product Code: QS 951 A
Product Name: Quik-Shield 951 A
Trade Name: Quik-Shield
Manufacturer Information

Company Name: SWD URETHANE
539 S. Drew St.
Mesa, AZ 85210,

Web site address: www.swdurethane.com
Revision Date: 08/21/2013

2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>Concentration</th>
<th>OSHA TWA</th>
<th>ACGIH TLV</th>
<th>Other Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Methylenebis(phenylisocyanate) (MBI; Methylene diphenyl diisocyanate; MDI)</td>
<td>101-68-8</td>
<td>40.0 - 60.0 %</td>
<td>40.0 - 60.0 %</td>
<td>0.005 ppm</td>
<td></td>
</tr>
<tr>
<td>2. MDI, mixed isomers</td>
<td>NA</td>
<td>40.0 - 60.0 %</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>OSHA STEL</th>
<th>OSHA CEIL</th>
<th>ACGIH STEL</th>
<th>ACGIH CEIL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Methylenebis(phenylisocyanate) (MBI; Methylene diphenyl diisocyanate; MDI)</td>
<td>101-68-8</td>
<td>0.02 ppm</td>
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<td></td>
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</tr>
<tr>
<td>2. MDI, mixed isomers</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3. HAZARDS IDENTIFICATION

Potential Health Effects (Acute and Chronic):

Inhalation: May be fatal if inhaled. Causes respiratory tract irritation.
Skin Contact: May be harmful if absorbed through the skin. Causes skin irritation.
Eye Contact: Causes eye irritation.
Ingestion: May be harmful if swallowed.

Medical Conditions Generally Aggravated By Exposure:

4. FIRST AID MEASURES

Emergency and First Aid Procedures:

In Case of Inhalation: If breathed in, move person into fresh air. If not breathing give artificial respiration.
In Case of Skin Contact: Wash off with soap and plenty of water. Consult a physician.
In Case of Eye Contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
In Case of Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Note to Physician: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

5. FIRE FIGHTING MEASURES

Flash Pt: 113.00 C
Method Used: Closed Cup
Explosive Limits: LEL: UEL:
Autoignition Pt: NA

Flammable Properties and Hazards:

Hazardous Combustion Products:

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam.

Unsuitable Extinguishing Media:

6. ACCIDENTAL RELEASE MEASURES

Steps To Be Taken In Case Material Is Released Or Spilled:


Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions To Be Taken In Handling:

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Precautions To Be Taken In Storing:

Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature: 2 - 8 deg.C. Store under inert gas. Moisture sensitive.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Equipment (Specify Type):
Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Eye Protection: Face shield and safety glasses.

Protective Gloves: Handle with gloves.

Other Protective Clothing: Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Engineering Controls (Ventilation etc.):

Work/Hygienic/Maintenance Practices: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States: [ ] Gas [X] Liquid [ ] Solid

Melting Point: 42.00 C - 45.00 C

Boiling Point: 200.00 C

Autoignition Pt: NA

Flash Pt: 113.00 C Method Used: Closed Cup

Specific Gravity (Water = 1): 1.18 G/CM3

Density:

Vapor Pressure (vs. Air or mm Hg):
Vapor Density (vs. Air = 1):
Evaporation Rate:
Solubility in Water:
Percent Volatile:
Appearance and Odor: Slightly. Musty.

10. STABILITY AND REACTIVITY

Stability: Unstable [   ] Stable [ X ]
Conditions To Avoid - Instability: No data available.
Hazardous Decomposition Or Byproducts: formed under fire conditions. Carbon oxides, nitrogen oxides (NOx).
Hazardous Polymerization: Will occur [   ] Will not occur [ X ]
Conditions To Avoid - Hazardous Polymerization:

11. TOXICOLOGICAL INFORMATION

Toxicological Information:
Chronic Toxicological Effects: Serious eye damage/eye irritation:
Irritation or Corrosion: Eyes - rabbit - Moderate eye irritation.
Carcinogenicity/Other Information: Carcinogenicity.
This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.
Limited evidence of carcinogenicity in animal studies.
IARC: Group 3: Not classifiable as to its carcinogenicity to humans 3.
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

12. ECOLOGICAL INFORMATION

General Ecological Information:
Persistence and Degradability: No data available.
Bioaccumulative Potential: No data available.
Mobility in Soil: No data available.

13. DISPOSAL CONSIDERATIONS

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.
Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
Contaminated packaging.
Dispose of as unused product.
14. TRANSPORT INFORMATION

LAND TRANSPORT (Canadian TDG)

Additional Transport Information:

15. REGULATORY INFORMATION

Canadian WHMIS Classification

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