



SAFETY DATA SHEET

Quik-Shield 1929F & 1929R

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Printed: 05/26/2015
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1. PRODUCT AND COMPANY IDENTIFICATION

Product Code: QS 1929
Product Name: Quik-Shield 1929F & 1929R
Company Name: SWD URETHANE
539 S. Drew St.
Mesa, AZ 85210,
Web site address: www.swdurethane.com
Emergency Contact: CHEMTREC
(800) 424-9300

2. HAZARDS IDENTIFICATION

GHS Signal Word: None
GHS Hazard Phrases: No phrases apply.
GHS Precaution Phrases: P102 - Keep out of reach of children.
GHS Response Phrases: No phrases apply.
GHS Storage and Disposal Phrases: No phrases apply.

Potential Health Effects (Acute and Chronic): In humans, effects have been reported on the central nervous system, including nystagmus (involuntary, rapid, rhythmic movement of the eyeball).

May cause kidney injury.

Inhalation: If ethylene glycol is heated or misted in work areas that are poorly ventilated, vapor/mist may accumulate and cause respiratory irritation and symptoms such as headache and nausea. Material has a very low vapor pressure at room temperature, so inhalation exposures are not expected unless material is heated or misted. May be harmful if inhaled. May cause respiratory tract irritation. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

Skin Contact: Low hazard for normal industrial handling. May be harmful if absorbed through the skin. May cause skin irritation. Causes burns.

Eye Contact: May cause moderate eye irritation. Causes burns. Lachrymator.

Ingestion: The lethal dose in adult humans for ethylene glycol is about 100 ml (1/3 cup). Swallowing may cause nausea, vomiting or diarrhea. Excessive exposure may cause CNS effects, cardiopulmonary effects (metabolic acidosis), and kidney failure. Toxicity follows 3-stage progression. (1) involves central nervous system effects including paralysis of eye muscles, convulsions, and coma. Metabolic acidosis and cerebral swelling may also occur. (2) involves cardiopulmonary system with symptoms of hypertension, rapid heart beat, and possible cardiac failure. (3) involves severe kidney abnormalities including possible renal failure. May be harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
107-21-1	Ethylene glycol	< 5.0 %
1336-21-6	Ammonium hydroxide {Ammonia aqua; Ammonium liquor}	< 1.0 %



4. FIRST AID MEASURES

Emergency and First Aid Procedures:

In Case of Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

In Case of Skin Contact: In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical aid if irritation develops and persists. Wash clothing before reuse. Wash off with soap and plenty of water. Call a physician.

In Case of Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid. Flush eyes with water as a precaution. In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

In Case of Ingestion: Never give anything by mouth to an unconscious person. Get medical aid. Rinse mouth with water. If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Signs and Symptoms Of Exposure: Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Inhalation may result in spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis, and pulmonary edema. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting.

Note to Physician: Treat symptomatically and supportively.

5. FIRE FIGHTING MEASURES

Flash Pt: No data.

Explosive Limits: LEL: No data. UEL: No data.

Autoignition Pt: No data.

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

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. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Wear self contained breathing apparatus for fire fighting if necessary. Specific Hazard(s):

Flammable Properties and Hazards: No data available.
No data available.

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. Personal precautions.
Avoid dust formation. Avoid breathing vapors, mist or gas.
Environmental precautions.
Do not let product enter drains.

Sweep up and shovel. Keep in suitable, closed containers for disposal. PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL. Evacuate area. PROCEDURE(S) OF PERSONAL PRECAUTION(S)
Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.
Methods for cleaning up.
To adjust the pH, add a weak acid to the spilled material at a controlled rate to avoid excessive ammonia liberation.



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7. HANDLING AND STORAGE

Precautions To Be Taken in Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Avoid breathing spray or mist. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection. Do not breathe vapor.

Precautions To Be Taken in Storing: Store in a cool, dry, well-ventilated area away from incompatible substances. Store protected from moisture. Keep container tightly closed in a dry and well-ventilated place. Keep in a dry place. Suitable:

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
107-21-1	Ethylene glycol	No data.	CEIL: 100 mg/m ³ (H)	No data.
1336-21-6	Ammonium hydroxide {Ammonia aqua; Ammonium liquor}	No data.	No data.	No data.

Respiratory Equipment (Specify Type): Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). 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.

Eye Protection: Wear chemical splash goggles. Chemical safety goggles. Other: Faceshield (8-inch minimum).

Protective Gloves: Glove protection is not normally required. Handle with gloves. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Wash and dry hands.

Other Protective Clothing: Protective garments not normally required. Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Engineering Controls (Ventilation etc.): Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Safety shower and eye bath. Use only in a chemical fume hood.

Work/Hygienic/Maintenance Practices: General industrial hygiene practice. Wash contaminated clothing before reuse. Discard contaminated shoes. Wash thoroughly after handling.



9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States:	[] Gas	[X] Liquid	[] Solid
Appearance and Odor:	Viscous. ammonia-like.		
Melting Point:	No data.		
Boiling Point:	No data.		
Flash Pt:	No data.		
Evaporation Rate:	No data.		
Flammability (solid, gas):	No data available.		
Explosive Limits:	LEL: No data.	UEL: No data.	
Vapor Pressure (vs. Air or mm Hg):	No data.		
Vapor Density (vs. Air = 1):	No data.		
Specific Gravity (Water = 1):	No data.		
Solubility in Water:	No data.		
Percent Volatile:	No data.		
Autoignition Pt:	No data.		

10. STABILITY AND REACTIVITY

Stability:	Unstable []	Stable [X]
Conditions To Avoid - Instability:	No data available.	
Incompatibility - Materials To Avoid:	Strong oxidizing agents, Strong acids.	
Hazardous Decomposition or Byproducts:	Carbon monoxide, formed under fire conditions. Carbon oxides, Nitrogen oxides, Ammonia.	
Possibility of Hazardous Reactions:	Will occur []	Will not occur [X]
Conditions To Avoid - Hazardous Reactions:	No data available.	

11. TOXICOLOGICAL INFORMATION

Toxicological Information:	No data available.
Carcinogenicity/Other Information:	CAS# 107-21-1: Not listed by ACGIH, IARC, NTP, or CA Prop 65. Carcinogenicity. IARC: No component of this product present at levels greater than or equal to 0.1% is identified as 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.



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CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
107-21-1	Ethylene glycol	n.a.	n.a.	A4	n.a.
1336-21-6	Ammonium hydroxide {Ammonia aqua; Ammonium liquor}	n.a.	n.a.	n.a.	n.a.

12. ECOLOGICAL INFORMATION

	No data available.
Persistence and Degradability:	No data available.
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.

Contaminated packaging.
 Dispose of as unused product. APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION. 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.

14. TRANSPORT INFORMATION

GHS Classification: No GHS classifications apply.

LAND TRANSPORT (US DOT):
DOT Proper Shipping Name: Not Regulated.
DOT Hazard Class:
UN/NA Number:

LAND TRANSPORT (Canadian TDG):
TDG Shipping Name: Not Regulated.
UN Number:
Hazard Class: **TDG Classification:**

MARINE TRANSPORT (IMDG/IMO):
IMDG/IMO Shipping Name: Not Regulated.

AIR TRANSPORT (ICAO/IATA):
ICAO/IATA Shipping Name: Not Regulated.

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)
107-21-1	Ethylene glycol	No	Yes 5000 LB	Yes
1336-21-6	Ammonium hydroxide {Ammonia aqua; Ammonium liquor}	No	Yes 1000 LB	No

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
107-21-1	Ethylene glycol	CAA HAP,ODC: HAP; CWA NPDES: No; TSCA: Yes - Inventory, 4 Test; CA PROP.65: No; CA TAC, Title 8: TAC, Title 8; MA Oil/HazMat: No; MI CMR, Part 5: Part 5; NC TAP:



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1336-21-6 Ammonium hydroxide {Ammonia aqua; Ammonium liquor}

Yes; NJ EHS: Yes - 0878; NY Part 597: Yes; PA HSL: Yes - E; SC TAP: Yes; WI Air: Yes
CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: Part 5; NC TAP: No; NJ EHS: Yes - 0103; NY Part 597: Yes; PA HSL: Yes - E; SC TAP: No; WI Air: No

CAS # Hazardous Components (Chemical Name)

International Regulatory Lists

107-21-1 Ethylene glycol

Canadian DSL: Yes; Canadian NDSL: No

1336-21-6 Ammonium hydroxide {Ammonia aqua; Ammonium liquor}

Canadian DSL: Yes; Canadian NDSL: No

Regulatory Information:

This product contains chemicals subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR part 372.

CAS# 107-21-1, Ethylene Glycol: <5.0%

16. OTHER INFORMATION

Revision Date: 05/26/2015

Additional Information About This Product: No data available.

This Product:

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.

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