



according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE

- 1.1 Product Code:** QS 232 B
Product Name: Quik-Shield 232 B
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**
- 1.3 Details of the Supplier of the Safety Data Sheet:**
- Company Name:** SWD URETHANE
539 S. Drew St.
Mesa, AZ 85210,
- Web site address:** www.swdurethane.com
- 1.4 Emergency telephone number:**
- Emergency Contact:** CHEMTREC
(800) 424-9300

SECTION 2. HAZARDS IDENTIFICATION

- 2.1 Classification of the Substance or Mixture:**
- 2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]:**
Acute Toxicity: Oral, Category 4
Acute Toxicity: Skin, Category 5
Skin Corrosion/Irritation, Category 3
Serious Eye Damage/Eye Irritation, Category 2B
Aquatic Toxicity (Acute), Category 3
- 2.1.2 Classification according to Directive 1999/45/EC:**
- 2.2 Label Elements:**
- 2.2.1 Labeling according to Regulation (EC) No 1272/2008 [CLP]:**



GHS Signal Word: Warning

GHS Hazard Phrases:

H302 - Harmful if swallowed.
H313 - May be harmful in contact with skin.
H316 - Causes mild skin irritation.
H320 - Causes eye irritation.
H402 - Harmful to aquatic life.

GHS Precaution Phrases:

P264 - Wash hands thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P273 - Avoid release to the environment.

GHS Response Phrases:

No phrases apply.

GHS Storage and Disposal Phrases:

No phrases apply.



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2.2.2 Labeling according to Directive 1999/45/EC:

2.3 Adverse Human Health

Effects and Symptoms:

- 2.3.1 Inhalation:** May be harmful if inhaled. Causes respiratory tract irritation.
- 2.3.2 Skin Contact:** May be harmful if absorbed through the skin. Causes skin irritation.
- 2.3.3 Eye Contact:** Causes eye irritation.
- 2.3.4 Ingestion:** Harmful if swallowed.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	Risk Phrases/ GHS Classification
NA	Halogenated Phosphate	7.0 -13.0 %	NA NA	No phrases apply. Acute Tox.(O) 4: H302
460-73-1	1,1,1,3,3-Pentafluoropropane {HFC-245fa}	<10.0 %	NA NA	No phrases apply. Eye Damage 2A: H319

SECTION 4. FIRST AID MEASURES

4.1 Description of First Aid

Measures:

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.

Contact:

In Case of Eye Contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Contact:

In Case of Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

- 4.2 Important Symptoms and Effects, Both Acute and Delayed:** To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Note for the Doctor:

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

SECTION 5. FIRE FIGHTING MEASURES

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

- 5.2 Flammable Properties and Hazards:** No data available.

Flash Pt: 218.00 C

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

Autoignition Pt: NA

- 5.3 Fire Fighting Instructions:** Wear self contained breathing apparatus for fire fighting if necessary.



SECTION 6. ACCIDENTAL RELEASE MEASURES

- 6.1 Protective Precautions,** No data available.
Protective Equipment and Emergency Procedures:
- 6.2 Environmental** No data available.
Precautions:
- 6.3 Methods and Material For Containment and Cleaning Up:** Personal precautions.
Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.
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.

SECTION 7. HANDLING AND STORAGE

- 7.1 Precautions To Be Taken in Handling:** Avoid inhalation of vapor or mist.
Normal measures for preventive fire protection.
- 7.2 Precautions To Be Taken in Storing:** Keep container tightly closed in a dry and well-ventilated place.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure Parameters:

CAS #	Partial Chemical Name	Britain EH40	France VL	Europe
NA	Halogenated Phosphate	No data.	No data.	No data.
460-73-1	1,1,1,3,3-Pentafluoropropane {HFC-245fa}	No data.	No data.	No data.
CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
NA	Halogenated Phosphate	No data.	No data.	No data.
460-73-1	1,1,1,3,3-Pentafluoropropane {HFC-245fa}	No data.	No data.	No data.

8.2 Exposure Controls:

8.2.1 Engineering Controls (Ventilation etc.): No data available.

8.2.2 Personal protection equipment:

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.

Respiratory Equipment (Specify Type): 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).

Work/Hygienic/Mainten Handle in accordance with good industrial hygiene and safety practice. Wash hands



ance Practices: before breaks and at the end of workday.
No data available.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

Physical States: [] Gas [X] Liquid [] Solid
Appearance and Odor: Viscous.
Musty.
Melting Point: NA
Boiling Point: 235.00 C - 248.00 C
Flash Pt: 218.00 C
Evaporation Rate: No data.
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.
Autoignition Pt: NA

9.2 Other Information

Percent Volatile: No data.

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity: No data available.
10.2 Stability: Unstable [] Stable [X]
10.3 Conditions To Avoid - Hazardous Reactions: No data available.
Possibility of Hazardous Reactions: Will occur [] Will not occur [X]
10.4 Conditions To Avoid - Instability: No data available.
10.5 Incompatibility - Materials To Avoid: Strong oxidizing agents.
10.6 Hazardous Decomposition or Byproducts: formed under fire conditions. Carbon oxides, Phosphorous oxides, Hydrogen chloride gas, Thermal decomposition 244 °C



SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects: CAS# NA:
Acute toxicity, LD50, Oral, Rat, 3600. MG/KG.
Results:
Behavioral: Somnolence (general depressed activity).
Behavioral: Tremor.
Lungs, Thorax, or Respiration: Other changes.
- National Technical Information Service, Vol/p/yr: OTS05, 7713

Acute toxicity, LD50, Intravenous, Mouse, 56.00 MG/KG.
Results:
Behavioral: Food intake (animal).
Nutritional and Gross Metabolic: Weight loss or decreased weight gain.
- U.S. Army Armament Research & Development Command, Chemical Systems Laboratory, NIOSH Exchange Chemicals., Aberdeen Proving Ground., Aberdeen Proving Ground, MD 21010, Vol/p/yr: NX#, 5768

Skin corrosion/irritation, Skin sensitization, Skin, Rabbit, 0.000 , Mild.
Results:
Sense Organs and Special Senses (Nose, Eye, Ear, and Taste): Eye: Lacrimation.
Behavioral: Tremor.
Lungs, Thorax, or Respiration: Cyanosis.

Irritation or Corrosion: Skin - rabbit - Mild skin irritation - 24 h.
Serious eye damage/eye irritation:
Eyes - rabbit - Mild eye irritation.

Carcinogenicity/Other Information: 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.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
NA	Halogenated Phosphate	n.a.	n.a.	n.a.	n.a.
460-73-1	1,1,1,3,3-Pentafluoropropane {HFC-245fa}	n.a.	n.a.	n.a.	n.a.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity: No data available.

12.2 Persistence and Degradability: No data available.

12.3 Bioaccumulative Potential: No data available.

12.4 Mobility in Soil: No data available.

12.5 Results of PBT and vPvB assessment: No data available.

12.6 Other adverse effects: No data available.



SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste Disposal Method: Product.
Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging.
Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

GHS Classification: Acute Toxicity: Oral, Category 4 - Warning! Harmful if swallowed
Acute Toxicity: Skin, Category 5 - Warning! May be harmful in contact with skin
Skin Corrosion/Irritation, Category 3 - Warning! Causes mild skin irritation
Serious Eye Damage/Eye Irritation, Category 2B - Warning! Causes eye irritation
Aquatic Toxicity (Acute), Category 3 - Harmful to aquatic life

14.1 LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Not Regulated.
DOT Hazard Class:
UN/NA Number:

14.1 LAND TRANSPORT (Canadian TDG):

TDG Shipping Name: Not Regulated.
UN Number:
Hazard Class: **TDG Classification:**

14.1 LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name:
UN Number:
Hazard Class:

14.2 MARINE TRANSPORT (IMDG/IMO):

IMDG/IMO Shipping Name: Not Regulated.

14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Not Regulated.

SECTION 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)
NA	Halogenated Phosphate	No	No	No
460-73-1	1,1,1,3,3-Pentafluoropropane {HFC-245fa}	No	No	No

CAS #	Hazardous Components (Chemical Name)	Canadian NPRI	Canadian IDL	Canadian DSL
NA	Halogenated Phosphate	No	No	Yes
460-73-1	1,1,1,3,3-Pentafluoropropane {HFC-245fa}	No	No	Yes

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
NA	Halogenated Phosphate	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory, 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: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No
460-73-1	1,1,1,3,3-Pentafluoropropane {HFC-245fa}	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA



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Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS:
No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No

CAS #	Hazardous Components (Chemical Name)	International Regulatory Lists
NA	Halogenated Phosphate	
460-73-1	1,1,1,3,3-Pentafluoropropane {HFC-245fa}	

Canadian WHMIS Classification:

No data available.

European Community Hazard Symbol codes:**European Community Risk and Safety Phrases:**

No data available.

Regulatory Information: This product contains no chemicals subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 40 CFR part 372.

SECTION 16. OTHER INFORMATION

Revision Date: 04/30/2015

Additional Information About 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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