

ITW Permatex  
Devcon Home Brand  
10 Columbus Blvd.  
Hartford, CT 06106 USA  
Telephone: 1-87-Permatex  
(877) 376-2839  
Emergency: 800-255-3924 (ChemTel)  
International Emergency: +01-813-248-0585

## Material Safety Data Sheet

### 1. PRODUCT IDENTIFICATION

Product Name: DEVCON FLOW-MIX 2 TON EPOXY (RESIN)  
Item No: 23145  
Product Type: Epoxy resin

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Component:	Weight%	ACGIH; TLV-TWA	OSHA PEL
EPOXY RESIN (EPICHLOROHYDRIN, BISPHENOL A) 25085-99-8	100	Not listed	Not listed

### 3. HAZARDS IDENTIFICATION

**Toxicity:** Causes moderate eye irritation. Causes moderate skin irritation. May cause skin sensitization.  
**Primary Routes of Entry:** Eye and skin contact, ingestion, inhalation  
**Signs and Symptoms of Exposure:** May cause pain, redness or swelling of the eyes and excessive blinking and tear production. Repeated skin contact may cause allergic skin reactions. Contact with product at elevated temperatures can result in thermal burns. Ingestion may cause nausea and vomiting. Excessive accidental exposure may cause headache, dizziness, nausea and mild respiratory irritation.

Component:	Weight%	NTP	ACGIH Carcinogens	IARC Carcinogen
EPOXY RESIN (EPICHLOROHYDRIN, BISPHENOL A) 25085-99-8	100			Bisphenol A; Group 3, Vol. 71, pg 1285; 1999

**Aggravated Medical Condition:** Preexisting eye, skin and respiratory disorders may be aggravated by overexposure to this product.

### 4. FIRST AID MEASURES

**Ingestion:** If swallowed, do not induce vomiting - seek medical advice. Never give anything by mouth to an unconscious person.  
**Inhalation:** Move to fresh air in case of accidental inhalation of vapors. Obtain medical attention.  
**Skin Contact:** Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.  
**Eye Contact:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

### 5. FIRE FIGHTING MEASURES

**Flash Point °F(C°):** >400°F (>204°C)  
**Recommended Extinguishing Media:** Carbon Dioxide, Dry Chemicals, Foam.  
**Special Fire-Fighting Procedures:** Material will not burn unless preheated. Firefighters should wear self-contained breathing apparatus. Use water spray to cool exposed containers. Oxides of carbon, Aldehydes, Acid vapors  
**Hazardous Products of Combustion:** May decompose above 300 degrees F.; may polymerize above 500 degrees F. in which case closed containers may rupture or explode. Fumes and vapor from thermal and chemical decomposition vary in composition and toxicity. Do not breathe fumes.

**Lower Explosive Limit:** n/d  
**Upper Explosive Limit:** n/d

### 6. ACCIDENTAL RELEASE MEASURES

**Spill Procedures:** Maintain good ventilation. Take up with an inert absorbent. Store in a closed waste container until disposal. Prevent from entering waterways or sewers.

## 7. HANDLING AND STORAGE

**Storage:** Store in a cool, dry area. Store away from heat.  
**Handling:** Use in a well ventilated area. Avoid contact with skin and eyes. Wash thoroughly after handling. Discard contaminated leather gloves and shoes.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Eyes:** Safety glasses  
**Skin:** Neoprene or nitrile gloves recommended.  
**Ventilation:** Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.  
**Respiratory Protection:** An approved organic vapor respirator should be worn when exposures are expected to exceed the applicable limits.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Clear viscous liquid  
**Odor:** Slight  
**Boiling Point:** >500°F  
**pH:** Neutral  
**Solubility in Water:** Negligible  
**Specific Gravity:** 1.16  
**VOC(Wt.%):** 0  
**Vapor Pressure:** 0.03 mmHg @ 171°F  
**Vapor Density (Air=1):** >1  
**Evaporation Rate:** <1 (butyl acetate = 1)

## 10. STABILITY AND REACTIVITY

**Chemical Stability:** Stable  
**Hazardous Polymerization:** Will not occur  
**Incompatibilities:** Strong Lewis or mineral acids, strong oxidizing agents, strong mineral and organic bases (especially primary and secondary aliphatic amines)  
**Conditions to Avoid:** Excessive heat  
**Hazardous Products of Combustion:** Oxides of carbon, Aldehydes, Acid vapors

## 11. TOXICOLOGICAL INFORMATION

Oral LD50 (rat) = >15,0000 mg/kg

## 12. ECOLOGICAL INFORMATION

No data available

## 13. DISPOSAL CONSIDERATIONS

**Recommended Method of Disposal:** Disposal should be made in accordance with federal, state and local regulations  
**US EPA Waste Number:** NH - Not a RCRA Hazardous Waste Material

## 14. TRANSPORTATION INFORMATION

### DOT (49CFR 172)

### U.S. Department of Transportation - DOT - 49 CFR (Ground)

**DOT Shipping Name:** Not regulated  
**Hazard Class:** None  
**UN/ID Number:** None

### IATA (Air)

**Proper Shipping Name:** Not regulated  
**Class or Division:** None  
**UN/ID Number:** None

### IMDG (Vessel)

**Proper Shipping Name:** Not regulated  
**Hazard Class:** None  
**UN Number:** None

**Marine Pollutant:** None

**Product Name:** DEVCON FLOW-MIX 2 TON EPOXY (RESIN)

**Item No.** 23145

**SARA 313 Chemicals:** The following component(s) is listed as a SARA Section 313 Toxic Chemical.

NONE

**California Proposition 65:** No California Prop 65 chemicals are known to be present.

**TSCA Inventory Status:** All components of this product are listed (or exempt) on the EPA TSCA inventory.

## 16. OTHER INFORMATION

**Estimated NFPA Rating:** HEALTH 2, FLAMMABILITY 1 , REACTIVITY 0.

**Estimated HMIS Classification:** HEALTH 2, FLAMMABILITY 1, PHYSICAL HAZARD 0

(NFPA is a registered trademark of the National Fire Protection Association)

(HMIS is a registered trademark of the National Paint and Coatings Association)

**Prepared By:** Denise Boyd, Manager-Environmental, Health & Safety

**Revision Date:** April 08, 2014

**Company:** ITW Permatex 10 Columbus Blvd. Hartford, CT USA 06106

**Revision Number:** 6

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## Material Safety Data Sheet

### 1. PRODUCT IDENTIFICATION

**Product Name:** DEVCON HOME FLOW-MIX 2 TON EPOXY (HARDENER)  
**Item No:** 23145V  
**Product Type:** Epoxy hardener

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Component:	Weight%	ACGIH; TLV-TWA	OSHA PEL
NONYLPHENOL 25154-52-3	75-85	Not listed	Not listed
AMINOETHYLPIPERAZINE 140-31-8	15-25	Not listed	Not listed

### 3. HAZARDS IDENTIFICATION

**Toxicity:** May be harmful if swallowed. Harmful if absorbed through the skin. The aminophenol can cause severe irritation and may be corrosive on prolonged contact. It may be a sensitizer. It can also be corrosive to eye tissue, leading to permanent injury including blindness. It may irritate the respiratory tract and may cause delayed lung damage upon overexposure to fumes or vapors. It can cause fatigue, muscular weakness, labored breathing or gastrointestinal irritation if swallowed .  
**Primary Routes of Entry:** Eye and skin contact, ingestion, inhalation  
**Signs and Symptoms of Exposure:** Can cause severe and painful burns on contact to eyes, skin and if taken internally. Repeated skin contact may cause allergic skin reactions.

**Aggravated Medical Condition:** Persons with respiratory problems such as emphysema and asthma should avoid inhalation.

### 4. FIRST AID MEASURES

**Ingestion:** If swallowed, do not induce vomiting - seek medical advice. Never give anything by mouth to an unconscious person.

**Inhalation:** Move to fresh air in case of accidental inhalation of vapors. Oxygen or artificial respiration if needed. Obtain medical attention.

**Skin Contact:** Remove product and immediately flush affected area with water for 15 minutes. Remove contaminated clothing and shoes. Destroy contaminated leather apparel. Cover the affected area with a sterile dressing and seek medical care. Do not apply greases or ointments. Launder contaminated clothes prior to reuse. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.

**Eye Contact:**

### 5. FIRE FIGHTING MEASURES

**Flash Point °F(C°):** 212°F (101°C)

**Recommended Extinguishing Media:** Carbon dioxide, Dry chemical, Foam

**Special Fire-Fighting Procedures:** Firefighters should wear self-contained breathing apparatus. Use water spray to cool exposed containers.

**Hazardous Products of Combustion:** Oxides of carbon, Oxides of nitrogen, Ammonia, Amines

**Unusual Fire/Explosion Hazards:** Irritating or toxic gases or fumes may be generated by thermal decomposition or combustion.

**Lower Explosive Limit:** n/d  
**Upper Explosive Limit:** n/d

### 6. ACCIDENTAL RELEASE MEASURES

**Spill Procedures:** Maintain good ventilation. Take up with an inert absorbent. Store in a closed waste container until disposal. Wear appropriate protective and respiratory equipment.

**Product Name:** DEVCON HOME FLOW-MIX 2 TON EPOXY  
(HARDENER)

**Item No.** 23145V

## 7. HANDLING AND STORAGE

**Storage:** Store in a cool, dry area. Keep away from oxidizers.  
**Handling:** Avoid contact with skin and eyes. Avoid breathing vapors, if exposed to high vapor concentration, leave area at once. Wash thoroughly after handling. Discard contaminated leather gloves and shoes.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Eyes:** Chemical goggles; also wear a face shield if splashing hazard exists. An eye wash station should be readily available.  
**Skin:** Wear protective clothing and appropriate impervious gloves. Because a variety of protective gloves exist, consult glove manufacturer to determine the proper type for a specific operation. An emergency shower should be readily available.  
**Ventilation:** Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.  
**Respiratory Protection:** An approved organic vapor respirator should be worn when exposures are expected to exceed the applicable limits.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Amber liquid
<b>Odor:</b>	Ammonia
<b>Boiling Point:</b>	>390°F
<b>pH:</b>	Alkaline (5% solution or slurry in water)
<b>Solubility in Water:</b>	Soluble
<b>Specific Gravity:</b>	0.97
<b>VOC(Wt.%):</b>	0
<b>Vapor Pressure:</b>	<1 mmHg @ 70°F
<b>Vapor Density (Air=1):</b>	>1
<b>Evaporation Rate:</b>	<1 (butyl acetate = 1)

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability:</b>	Stable
<b>Hazardous Polymerization:</b>	Will not occur
<b>Incompatibilities:</b>	Strong oxidizers, acids, chlorinated hydrocarbons, Active metals, Peroxides
<b>Conditions to Avoid:</b>	Excessive heat
<b>Hazardous Products of Combustion:</b>	Oxides of carbon, Oxides of nitrogen, Ammonia, Amines

## 11. TOXICOLOGICAL INFORMATION

Oral LD50 (rat) = 1620 mg/kg  
Dermal LD50 (rabbit) = >1000 mg/kg

## 12. ECOLOGICAL INFORMATION

No data available

## 13. DISPOSAL CONSIDERATIONS

**Recommended Method of Disposal:** Disposal should be made in accordance with federal, state and local regulations  
**US EPA Waste Number:** D002 as per 40CFR 261.22

## 14. TRANSPORTATION INFORMATION

### DOT (49CFR 172)

### U.S. Department of Transportation - DOT - 49 CFR (Ground)

**DOT Shipping Name:** Corrosive liquid, basic, organic, n.o.s (N-aminoethylpiperazine, nonylphenol), Limited Quantity  
**Hazard Class:** Class 8 PGIII  
**UN/ID Number:** UN 3267

### IATA (Air)

**Proper Shipping Name:** Consumer Commodity  
**Class or Division:** Class 9  
**UN/ID Number:** ID 8000

### IMDG (Vessel)

**Proper Shipping Name:** Corrosive liquids, basic, organic, n.o.s. (N-aminoethylpiperazine, nonylphenol), Limited Quantity  
**Hazard Class:** Class 8 PGIII  
**UN Number:** UN 3267

**Product Name:** DEVCON HOME FLOW-MIX 2 TON EPOXY  
(HARDENER)

**Item No.** 23145V

**Marine Pollutant:** Nonylphenol

**SARA 313 Chemicals:** The following component(s) is listed as a SARA Section 313 Toxic Chemical.

None

**California Proposition 65:** No California Prop 65 chemicals are known to be present.

**TSCA Inventory Status:** All components of this product are listed (or exempt) on the EPA TSCA inventory.

## 16. OTHER INFORMATION

**Estimated NFPA Rating:** HEALTH 3, FLAMMABILITY 1, REACTIVITY 0.

**Estimated HMIS Classification:** HEALTH 3, FLAMMABILITY 1, PHYSICAL HAZARD 0

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