

ITW Permatex
 Devcon 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 LEAK STOPPER STEEL EPOXY (HARDENER)
Product Type: Epoxy hardener

This product appears in the following stock number(s):
50610

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight%	ACGIH; TLV-TWA	OSHA PEL
MAGNESIUM SILICATE 14807-96-6	30-60	2 mg/m ³	20 mppcf
IRON 7439-89-6	10-30	Not listed	Not listed
MERCAPTAN AMINE BLEND TSRN 679485-6533P	10-30	Not listed	Not listed
ALUMINUM OXIDE 1344-28-1	<5	Not listed	15 mg/m ³
CRYSTALLINE SILICA 14808-60-7	0.1-1.0	0.025 mg/m ³	Not listed

3. HAZARDS IDENTIFICATION

Toxicity: Severe eye irritant. Causes severe respiratory irritation. Can cause severe skin irritation or burns. Harmful if swallowed. May cause skin sensitization.
Primary Routes of Entry: Eye and skin contact, ingestion, inhalation
Signs and Symptoms of Exposure: Eye irritation may be severe and result in injury. Contact causes severe skin irritation and possible burns. Inhalation of mist or vapor can cause damage to the upper respiratory tract and to the tissue depending on severity of exposure. Effects can range from mild irritation of mucous membranes to severe pneumonitis and destruction of lung tissue. Can burn mouth, throat, and stomach.

Component	Weight%	NTP	ACGIH Carcinogens	IARC Carcinogen
MAGNESIUM SILICATE 14807-96-6	30-60	male rat-some evidence, female rat-clear evidence, male mice-no evidence, female mice-no evidence	A4-Not classifiable as a human carcinogen	Group 3 Supplement 7, 1987 Monograph 42, 1987
ALUMINUM OXIDE 1344-28-1	<5		A4 Not classifiable as a human carcinogen	
CRYSTALLINE SILICA 14808-60-7	0.1-1.0		A2 - Suspected Human Carcinogen	Group 1 Monograph 68, 1997 (inhalation of quartz)

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

4. FIRST AID MEASURES

Ingestion: Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person. Get immediate medical attention.
Inhalation: Move to fresh air in case of accidental inhalation of vapours. Oxygen or artificial respiration if needed. Seek immediate medical attention.
Skin Contact: Immediately remove contaminated clothing and excess contaminant. Flush with water for at least 15 minutes. Wash thoroughly with soap and water. Consult a physician if irritation develops.
Eye Contact: Flush eyes with clean water for at least 20 minutes while gently holding eyelids open, lifting upper and lower lids. Get immediate medical attention.

5. FIRE FIGHTING MEASURES

Flash Point °F(C°):	>200°F (>93°C)
Recommended Extinguishing Media:	Dry chemical, Carbon dioxide, Foam
Special Fire-Fighting Procedures:	Firefighters should wear self-contained breathing apparatus and protective clothing to prevent all skin and eye contact
Hazardous Products of Combustion:	Oxides of carbon, Oxides of nitrogen, Ammonia
Unusual Fire/Explosion Hazards:	Heating above 149°C (300°F) in the presence of air may cause slow oxidation decomposition and above 260°C (500°F) may cause polymerization.
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. Wear appropriate protective and respiratory equipment.
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7. HANDLING AND STORAGE

Storage:	Store in a cool, dry area.
Handling:	Avoid contact with skin and eyes. Do not inhale vapors. Wash hands before eating and smoking. Discard contaminated leather gloves and shoes.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes:	Safety glasses
Skin:	Neoprene or nitrile gloves recommended.
Ventilation:	General; local exhaust ventilation as necessary to control any air contaminants to within their exposure limits (or to the lowest feasible levels when limits have not been established) during the use of this product.
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:	Gray putty
Odor:	Mercaptan
Boiling Point:	Not determined
pH:	9.5 (5% solution or slurry in water)
Solubility in Water:	Negligible
Specific Gravity:	1.13
VOC(Wt.%):	0
Vapor Pressure:	<1.0 mmHg
Vapor Density (Air=1):	Not Determined
Evaporation Rate:	Not Determined

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable at normal conditions
Hazardous Polymerization:	Will not occur
Incompatibilities:	Strong oxidizers, Acids, Reactive metals (e.g. Na, Ca, zinc), Sodium/calcium hypochlorite, Peroxides, Materials reactive with hydroxyl compounds
Conditions to Avoid:	Excessive heat.
Hazardous Products of Combustion:	Oxides of carbon, Oxides of nitrogen, Ammonia

11. TOXICOLOGICAL INFORMATION

See Section 3

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)

14. TRANSPORTATION INFORMATION

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

15. REGULATORY INFORMATION

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

SARA 313 Information None

California Proposition 65: WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

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
(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
Company: ITW Permatex 10 Columbus Blvd. Hartford, CT USA 06106
Telephone No.: 1-87-Permatex (877) 376-2839

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Material Safety Data Sheet

1. PRODUCT IDENTIFICATION

Product Name: DEVCON LEAK STOPPER STEEL EPOXY (RESIN)
Product Type: Epoxy resin

This product appears in the following stock number(s):
50610

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight%	ACGIH; TLV-TWA	OSHA PEL
GLASS OXIDE 65997-17-3	20-40	Not listed	Not listed
IRON 7439-89-6	10-30	Not listed	Not listed
MAGNESIUM SILICATE 14807-96-6	10-30	2 mg/m ³	20 mppcf
BISPHENOL A/EPICHLOROHYDRIN BASED EPOXY RESIN 25068-38-6	10-30	Not listed	Not listed
TITANIUM DIOXIDE 13463-67-7	0.1-1.0	10 mg/m ³	15 mg/m ³
CRYSTALLINE SILICA 14808-60-7	0.1-1.0	0.025 mg/m ³	Not listed

3. HAZARDS IDENTIFICATION

Toxicity: Causes moderate eye irritation. High concentrations may cause central nervous system (CNS) depression. Causes burning sensation of the mouth, throat, and stomach. May cause skin sensitization.

Primary Routes of Entry: Eye and skin contact, ingestion, inhalation

Signs and Symptoms of Exposure: Repeated skin contact may cause allergic skin reactions. May cause pain, redness or swelling of the eyes and excessive blinking and tear production. Excessive accidental exposure may cause headache, dizziness, nausea and mild respiratory irritation. Ingesting may cause abdominal pain and vomiting.

Component	Weight%	NTP	ACGIH Carcinogens	IARC Carcinogen
MAGNESIUM SILICATE 14807-96-6	10-30	male rat-some evidence, female rat-clear evidence, male mice-no evidence, female mice-no evidence	A4-Not classifiable as a human carcinogen	Group 3 Supplement 7, 1987 Monograph 42, 1987
TITANIUM DIOXIDE 13463-67-7	0.1-1.0	male rat-negative, female rat-negative, male mice-negative, female mice-negative	A4	Group 2B; Vol 93,2006; Vol 47,1989
CRYSTALLINE SILICA 14808-60-7	0.1-1.0		A2 - Suspected Human Carcinogen	Group 1 Monograph 68, 1997 (inhalation of quartz)

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

4. FIRST AID MEASURES

Ingestion: Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person. Get immediate medical attention.

Inhalation: Move to fresh air in case of accidental inhalation of vapours. Oxygen or artificial respiration if needed. If symptoms persist, call a physician.

Skin Contact: Remove contaminated clothing and launder before reuse. Wash with soap and water. If skin irritation persists, call a physician.

Eye Contact: Flush eyes with clean water for at least 20 minutes while gently holding eyelids open, lifting upper and lower lids. Get immediate medical attention.

5. FIRE FIGHTING MEASURES

Flash Point °F(C°):	>400°F (>204°C)
Recommended Extinguishing Media:	Dry chemical, Carbon dioxide, Foam
Special Fire-Fighting Procedures:	Firefighters should wear self-contained breathing apparatus and protective clothing to prevent all skin and eye contact
Hazardous Products of Combustion:	Oxides of carbon, Chlorine
Unusual Fire/Explosion Hazards:	Heating above 149°C (300°F) in the presence of air may cause slow oxidation decomposition and above 260°C (500°F) may cause polymerization.
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. Wear appropriate protective and respiratory equipment.
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7. HANDLING AND STORAGE

Storage:	Store in a cool, dry area.
Handling:	Avoid contact with skin and eyes. Do not inhale vapors. Wash hands before eating and smoking. Discard contaminated leather gloves and shoes.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes:	Safety glasses
Skin:	Neoprene or nitrile gloves recommended.
Ventilation:	General; local exhaust ventilation as necessary to control any air contaminants to within their exposure limits (or to the lowest feasible levels when limits have not been established) during the use of this product.
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:	Gray putty
Odor:	Little odor
Boiling Point:	>500°F (>260°C)
pH:	Neutral
Solubility in Water:	Negligible
Specific Gravity:	1.17
VOC(Wt.%):	0
Vapor Pressure:	0.03 mmHg
Vapor Density (Air=1):	>1
Evaporation Rate:	<1 (butyl acetate = 1)

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable at normal conditions
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, Chlorine

11. TOXICOLOGICAL INFORMATION

See Section 3

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)

14. TRANSPORTATION INFORMATION

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

15. REGULATORY INFORMATION

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

SARA 313 Information None

California Proposition 65: WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

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)
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