

Material Safety Data Sheet

ITW Performance Polymers - Devcon

1 of 5

METAL PATCH & FILL

This product appears in the following stock number(s):
50345

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Tradename: METAL PATCH & FILL

General use: Once cured this material is not hazardous.

Chemical family: Metal and mineral filled resins

MANUFACTURER

ITW Performance Polymers - Devcon
Consumer Division
2107 West Blue Heron Blvd.
Riviera Beach, FL 33404

EMERGENCY INFORMATION

Emergency telephone number
(CHEMTREC): (800) 424-9300
(CHEMTREC International): 703-527-3887
Other Calls: (561) 845-2425

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	Abbr.	Weight Percent	ACGIH TLV:	OSHA PEL:	Other Limits
CRYSTALLINE SILICA 14808-60-7	n/e	20-30	0.05 mg/m ³ TWA (respirable)	10(%Q+2) mppcf (respirable)	0.1 mg/m ³ (Canada)
METHYL ETHYL KETONE 78-93-3	MEK	20-30	200 ppm TWA	200 ppm TWA; 590 mg/m ³	200 ppm Canada
METHYL ISOBUTYL KETONE 108-10-1	MIBK	5-10	50 ppm TWA	100 ppm TWA; 410 mg/m ³ TWA	50 ppm Canada
ALUMINIUM POWDER 7429-90-5	n/e	<10	10 mg/m ³ TWA (metal dust) ACGIH	15 mg/m ³ TWA (total dust), 5 mg/m ³ TWA (respirable)	n/e
AMORPHOUS SILICA 61790-53-2	n/e	<5	10 mg/m ³ TWA (inhalable)	20 mppcf TWA	n/e
TRADE SECRET (Non-hazardous) MIXTURE	n/e	Balance	n/e	n/e	n/e

"TLV" means the Threshold Limit Value exposure (eight-hour, time-weighted average, unless otherwise noted) established by the American Conference of Governmental Industrial Hygienists. "STEL" indicates a short-term exposure limit. "PEL" indicates the OSHA Permissible Exposure Limit. "n/e" indicates that no exposure limit has been established. An asterisk (*) indicates a substance whose identify is a trade secret of our supplier and unknown to us.

3. HAZARDOUS IDENTIFICATION

Emergency Overview

Appearance, form, odor: Grey paste with strong ketone odor

WARNING! Flammable. Eye, skin and respiratory irritant. May cause central nervous system effects.

Potential health effects

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

Symptoms of acute overexposure

Skin: May cause irritation.

Eyes: May irritate eyes..

Inhalation: Odor may be objectionable or irritating. Central Nervous System Depression: signs/symptoms can include headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and unconsciousness.

Ingestion: May be harmful if swallowed. May cause gastric distress (nausea, vomiting, diarrhea).

Effects of Chronic Exposure: May effect the central and/or peripheral nervous systems. Long term overexposure to solvents have been associated with lung, liver and kidney damage..

Ingredient	Weight Percent	NTP	ACGIH Carcinogens	IARC
CRYSTALLINE SILICA 14808-60-7	20-30		A2 - Suspected Human Carcinogen	Group 1 Monograph 68, 1997 (inhalation of quartz)
AMORPHOUS SILICA 61790-53-2	<5			Group 3 Monograph 68, 1997

Medical Conditions Recognized as Being Aggravated by Exposure:

Persons with preexisting respiratory, liver, kidney, eye or skin diseases may be adversely affected..

4. FIRST AID MEASURES

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

Skin Contact: Wash off with soap and water. Obtain medical attention.

Inhalation: If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.

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.

5. FIRE FIGHTING MEASURES

General fire and explosion characteristics: Flammable.

Recommended Extinguishing Media: Carbon dioxide, Dry chemical, foam

Flash point: 24°F

Method: SETA CC

Lower Explosive Limit: 1.8%

Upper Explosive Limit: 10% (MEK)

Special Fire-Fighting Procedures: Firefighters should wear self-contained breathing apparatus and protective clothing to prevent all skin and eye contact. Use water spray to cool exposed containers.

Unusual Fire/Explosion Hazards:

Closed containers may rupture or explode when exposed to extreme heat.

Hazardous Products of Combustion:

Oxides of carbon

6. ACCIDENTAL RELEASE MEASURES

Spill Control: Avoid personal contact. Eliminate ignition sources. Ventilate area.

Containment: Dike, contain and absorb with clay, sand or other suitable material.

Cleanup: For large spills, pump to storage/salvage vessels. Soak up residue with an absorbent such as clay, sand or other suitable material and dispose of properly.

Special procedures: Prevent spill from entering drainage/sewer systems, waterways and surface water. Collect run-off water and transfer to drums or tanks for later disposal. Notify local health authorities and other appropriate agencies if such contamination occurs. Use non-sparking tools.

7. HANDLING AND STORAGE

Handling precautions: Avoid breathing vapors or mists. Avoid contact with the skin and the eyes. Wash thoroughly after handling. Ground container when pouring. Do not use near heat, sparks and open flame. Use non-sparking tools. Provide appropriate ventilation/respiratory protection against decomposition products (see Section 10) during welding/flame cutting operations and to protect against dust during sanding/grinding of cured product.

Storage: Store away from heat, sparks or open flame. Do not store at temperatures above 120 degrees F.. Keep containers closed when not in use. Maintain air space in storage containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls

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.

Other engineering controls: Have emergency shower and eye wash available. Observe label precautions. Keep container tightly closed.

Personal protective equipment

Eye and face protection: Safety glasses with side shields.

Skin protection: Chemical-resistant gloves (i.e. butyl) and other gear as required to prevent skin contact.

Respiratory protection: An approved respirator (i.e.NIOSH, etc.) should be worn when exposures are expected to exceed the applicable limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Specific Gravity: 1.51

Boiling Point: 175°F (MEK)

Melting point: n/d

Vapor Density (Air=1): >1

Vapor Pressure: 74 mmHg @ 68°F (MEK)

Evaporation Rate: <1 (ethyl ether = 1)

VOC: 437 g/l; 3.65 lb/gal

Solubility in water: Slight

pH (5% solution or slurry in water): n/d

10. STABILITY AND REACTIVITY

This material is chemically stable. Hazardous polymerization will not occur.

Conditions to Avoid: Keep away from heat, sparks and flame.

Incompatibilities: Strong oxidizers, Mineral acids, alkalies

Hazardous Products of Combustion: Oxides of carbon

Conditions under which hazardous polymerization may occur: None.

11. TOXICOLOGICAL INFORMATION

Eye irritation: No data available.

Subchronic effects: No data available.

Carcinogenicity, teratogenicity and mutagenicity: MEK: Embryotoxic/fetotoxic effects were observed in female rats exposed to over 1000 ppm by inhalation (5X the OSHA-PEL/TWA)

Other chronic effects: Laboratory studies involving rats indicate some evidence that MEK may be embryotoxic, fetotoxic and teratogenic.

Toxicological information on hazardous chemical constituents of this product:

Ingredient	Oral LD50 (rat)	Dermal LD50 (rabbit)	Inhalation LC50 4hr (rat)
CRYSTALLINE SILICA 14808-60-7	n/d	n/d	n/d
METHYL ETHYL KETONE 78-93-3	2737 mg/kg	6840 mg/kg	23500 mg/m ³ /8h
METHYL ISOBUTYL KETONE 108-10-1	2080 mg/kg	>16000 mg/kg	8.2 mg/L/4h
ALUMINIUM POWDER 7429-90-5	n/d	n/d	n/d
AMORPHOUS SILICA 61790-53-2	n/d	n/d	n/d
TRADE SECRET (Non-hazardous) MIXTURE	n/d	n/d	n/d

'n/d' = not determined

–

12. ECOLOGICAL INFORMATION

Ecotoxicity: MIBK has a high biochemical oxygen demand and a potential to cause oxygen depletion in aqueous systems and a low potential to affect aquatic organisms.

Mobility and persistence: MIBK has a low potential to persist in the environment.

Environmental fate: MIBK has a low potential to bioaccumulate

13. DISPOSAL CONSIDERATIONS

Please see also Section 15, Regulatory Information.

Recommended Method of Disposal: Do not dispose of in a landfill. Incineration is the preferred method of disposal..

US EPA Waste Number: D001/D035 as per 40CFR 261.21 and a TCLP waste per 261.24 (methyl ethyl ketone and benzene).

14. TRANSPORT INFORMATION

Proper shipping name: *Adhesives

Technical name: N/A

Hazard class: 3

UN/ID Number: 1133

Packing group: II

Emergency Response Guide no: 128

IMDG page number: Not determined

Other: *Depending upon the size and type of container, this material may be reclassified as "Consumer Commodity, ORM-D" for shipments within the United States, or "Limited Quantity" elsewhere. Refer to the appropriate regulation.

15. REGULATORY INFORMATION

U.S. Federal Regulations

TSCA:

All ingredients of this product are listed or are exempt from listing on the TSCA Inventory.

The following RCRA code(s) applies to this material if it becomes waste:

D001/D035

Regulatory status of hazardous chemical constituents of this product:

Ingredient	Extremely Hazardous*	Toxic Chemical**	CERCLA RQ (lbs)	12B EXPORT NOTIFICATION:
CRYSTALLINE SILICA 14808-60-7	No	No	0.0	Not required
METHYL ETHYL KETONE 78-93-3	No	Yes	5000 lbs. (2270 kg)	Not required
METHYL ISOBUTYL KETONE 108-10-1	No	Yes	5000 lbs. (2270 kg)	Required
ALUMINIUM POWDER 7429-90-5	No	No	0.0	Not required
AMORPHOUS SILICA 61790-53-2	No	No	0.0	Not required
TRADE SECRET (Non-hazardous) MIXTURE	No	No	0.0	Not required

*Consult the appropriate regulations for emergency planning and release reporting requirements for substances on the SARA Section 301 Extremely Hazardous Substance List.

**Substances for which the "Toxic Chemical" column is marked "Yes" are on the SARA Section 313 list of Toxic Chemicals, for which release reporting may be required. For specific requirements, consult the appropriate regulations.

For purposes of SARA Section 312 hazardous materials inventory reporting, the following hazard classes apply to this material: Immediate health hazard, Delayed health hazard, Fire hazard

California regulations: For purposes of the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Prop 65), this product does not contain any listed chemical at or above the No Significant Risk Limit.

Canadian regulations

WHMIS Hazard Class: B2 FLAMMABLE LIQUIDS, D2A VERY TOXIC MATERIALS, D2B TOXIC MATERIALS

16. OTHER INFORMATION

Hazardous Material Information System (HMIS) rating:

Health 2* Flammability 3 Physical Hazard 0

HMIS is a registered trademark of the National Paint and Coatings Assn.

Revision Date: 04/11/2006

Revision Number: 3

The information and recommendations in this document are based on the best information available to us at the time of preparation, but we make no other warranty, express or implied, as to its correctness or completeness, or as to the results of reliance on this document.