

# Material Safety Data Sheet



## SET® 45

Version 1.4

07/20/2006

### 1. PRODUCT AND COMPANY INFORMATION

Company	:	<b>BASF Building Systems, Inc.</b> 889 Valley Park Drive Shakopee, MN 55379
Telephone	:	952-496-6000
Emergency telephone number	:	(800) 424-9300 (703) 527-3887 (Outside Continental US)
Product name	:	SET® 45
MSDS ID No.	:	10224
TSCA Inventory	:	All components of this product are included, or are exempt from inclusion, in the EPA Toxic Substances Control Act (TSCA) Chemical Substance Inventory.
Canadian DSL	:	All components of this product are included, or are exempt from inclusion, in the Canadian Domestic Substance List (DSL).

### 2. HAZARDOUS INGREDIENTS

<u>Chemical</u>	<u>CAS No.</u>	<u>TLV</u>	<u>STEL</u>	<u>PEL</u>	<u>CEIL</u>	<u>Weight %</u>
SILICA, CRYSTALLINE QUARTZ	14808-60-7	0.05 mg/m3	N.E.	0.1 mg/m3	N.E.	60.00 - 90.00 %
FLY ASH	68131-74-8	N.E.	N.E.	N.E.	N.E.	0.00 - 20.00 %
MAGNESIUM OXIDE	1309-48-4	10 mg/m3	N.E.	15 mg/m3	N.E.	7.00 - 13.00 %
PHOSPHORIC ACID, MONOAMMONIUM SALT	7722-76-1	N.E.	N.E.	N.E.	N.E.	5.00 - 10.00 %
IRON OXIDE	1309-37-1	5 mg/m3	N.E.	10 mg/m3	N.E.	0.00 - 5.00 %
SILICA, AMORPHOUS	7631-86-9	3 mg/m3	N.E.	N.E.	N.E.	0.00 - 5.00 %
ALUMINUM OXIDE	1344-28-1	10 mg/m3	N.E.	5 mg/m3	N.E.	0.00 - 5.00 %
SULFUR TRIOXIDE	7446-11-9	N.E.	N.E.	N.E.	N.E.	0.00 - 1.00 %

### 3. HAZARDS IDENTIFICATION

HMIS® Rating	HEALTH 2*	FLAMMABILITY 0	PHYSICAL HAZARD 1
WHMIS Class	:	D2B E	
Primary Routes of Entry	:	Inhalation Eye contact Skin contact	

#### Effects of Overexposure

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- Inhalation : Inhalation of dust can cause coughing and labored breathing and possible temporary but reversible irritation on mucous membranes and respiratory tract.
- Skin : Can cause slight to moderate irritation due to abrasive action. In combination with water, repeated or prolonged dermal exposure can cause moderate to severe alkali burns.
- Eyes : Can cause severe irritation, redness, tearing and blurred vision. Prolonged or repeated contact can cause burns and possibly corneal injury.
- Ingestion : Irritating to mouth, throat and stomach.
- Chronic exposure : This product contains Crystalline (quartz) Silica which has been listed as a human carcinogen by NTP (Group 1) and IARC (Human Carcinogen) and a Suspected Human Carcinogen by ACGIH (category A2). Repeated or prolonged over exposure to free respirable Crystalline (quartz) silica can cause silicosis or other delayed and serious lung injury. Repeated or prolonged overexposure to free respirable silica can cause silicosis or other delayed and serious lung injury.

### Carcinogenicity

	ACGIH	IARC	NTP	OSHA
SILICA, CRYSTALLINE QUARTZ	Suspected human carcinogen.	Human carcinogen.		N.E.
FLY ASH	N.E.	N.E.	N.E.	N.E.
MAGNESIUM OXIDE	Not classifiable as a human carcinogen.	N.E.	N.E.	N.E.
PHOSPHORIC ACID, MONOAMMONIUM SALT	N.E.	N.E.	N.E.	N.E.
IRON OXIDE	Not classifiable as a human carcinogen.	Classification not possible from current data.	N.E.	N.E.
SILICA, AMORPHOUS	N.E.	Classification not possible from current data.	N.E.	N.E.
ALUMINUM OXIDE	Not classifiable as a human carcinogen.	N.E.	N.E.	N.E.
SULFUR TRIOXIDE	Suspected human carcinogen.	Sufficient data.	Known carcinogen.	N.E.

## 4. FIRST AID MEASURES

- Eye contact : Flush eyes with water, lifting upper and lower lids occasionally for 15 minutes. Seek medical attention.
- Skin contact : Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Seek medical advice.
- Ingestion : Do not induce vomiting without medical advice. If conscious, drink plenty of water. Call a physician immediately. Never give anything by mouth to an unconscious person. If a person vomits, place him/her in the recovery position.
- Inhalation : Remove victim from exposure. If difficulty with breathing, administer oxygen. If breathing has stopped administer artificial respiration, preferably mouth-to-mouth. Seek immediate medical attention.

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### 5. FIRE-FIGHTING MEASURES

Flash point	:	Not combustible.
Autoignition temperature	:	Not combustible.
Lower explosion limit	:	not applicable
Upper explosion limit	:	not applicable
Suitable extinguishing media	:	water fog carbon dioxide (CO2) dry chemical alcohol-resistant foam
Fire and Explosion Hazards	:	This product is alkaline and releases considerable heat on contact with small amounts of water. Avoid contact between resulting hot alkaline paste and metallic aluminum. Such contact could generate hydrogen gas.
Special Fire-fighting Procedures	:	As in any fire, wear pressure demand self-contained breathing apparatus (NIOSH approved or equivalent) and full protective gear.

### 6. ACCIDENTAL RELEASE MEASURES

Methods for cleaning up	:	Clean up promptly by sweeping or vacuum. Clean thoroughly. After cleaning, flush away traces with water. Keep in suitable, closed containers for disposal. Wear personal protective equipment (refer to section 8).
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### 7. HANDLING AND STORAGE

Handling	:	Use only in area provided with appropriate ventilation. Keep out of reach of children. Avoid exceeding of the given occupational exposure limits (see section 2). Avoid formation of respirable particles.
Storage	:	Keep container tightly closed.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Eye protection	:	Wear as appropriate: safety glasses with side-shields face-shield goggles
Hand protection	:	Wear as appropriate: impervious gloves
Body Protection	:	Wear as appropriate: preventive skin protection impervious clothing

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Respiratory protection	:	In case of insufficient ventilation wear suitable respiratory equipment. When workers are facing concentrations above the exposure limit they must use NIOSH approved respirators.
Hygienic Practices	:	Avoid contact with skin, eyes and clothing. Ensure adequate ventilation, especially in confined areas. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke.
Engineering Controls	:	Local exhaust ventilation can be necessary to control any air contaminants to within their TLVs during the use of this product.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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Color	:	gray
Physical State	:	powder
Odor	:	none
pH (at 100 %)	:	not applicable
Odor Threshold	:	no data available
Vapor Pressure	:	not applicable
Vapor Density	:	not applicable
Boiling point/range	:	no data available
Freeze Point	:	no data available
Water solubility	:	slightly soluble
Specific Gravity	:	no data available
Viscosity	:	no data available
Evaporation rate	:	no data available
Partition coefficient (n-octanol/water)	:	no data available
VOC Concentration as applied (less water and exempt solvents)	:	0 g/l

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## 10. STABILITY AND REACTIVITY

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Stability	:	Stable under recommended storage conditions.
Conditions to avoid	:	no data available

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Materials to avoid : strong acids and strong bases  
strong oxidizing agents

Hazardous decomposition products : no data available

Hazardous polymerization : Will not occur under normal conditions.

## 11. TOXICOLOGICAL INFORMATION

### Acute inhalation toxicity

<u>Product</u>	<u>Type</u>	<u>Value</u>	<u>Species</u>	<u>Exposure time</u>
	LC50	no data available		
<u>Component</u>				
SILICA, CRYSTALLINE QUARTZ	LC50	no data available		
FLY ASH	LC50	no data available		
MAGNESIUM OXIDE	LC50	46 mg/l		1 h
PHOSPHORIC ACID, MONOAMMONIUM SALT	LC50	no data available		
IRON OXIDE	LC50	0.96 mg/l		4 h
SILICA, AMORPHOUS	LC50	no data available		
ALUMINUM OXIDE	LC50	no data available		
SULFUR TRIOXIDE	LC50	no data available		

### Acute oral toxicity

<u>Product</u>	<u>Type</u>	<u>Value</u>	<u>Species</u>
	LD50 (Oral)	no data available	
<u>Component</u>			
SILICA, CRYSTALLINE QUARTZ	LD50 (Oral)	1,300 mg/kg	
FLY ASH	LD50 (Oral)	5,000 mg/kg	
MAGNESIUM OXIDE	LD50 (Oral)	5,000 mg/kg	
PHOSPHORIC ACID, MONOAMMONIUM SALT	LD50 (Oral)	no data available	
IRON OXIDE	LD50 (Oral)	3,700 mg/kg	
SILICA, AMORPHOUS	LD50 (Oral)	no data available	
ALUMINUM OXIDE	LD50 (Oral)	4,200 mg/kg	
SULFUR TRIOXIDE	LD50 (Oral)	no data available	

### Acute dermal toxicity

<u>Product</u>	<u>Type</u>	<u>Value</u>	<u>Species</u>
	LD50 (Dermal)	no data available	
<u>Component</u>			

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SILICA, CRYSTALLINE QUARTZ	LD50 (Dermal)	no data available	
FLY ASH	LD50 (Dermal)	no data available	
MAGNESIUM OXIDE	LD50 (Dermal)	3,160 mg/kg	
PHOSPHORIC ACID, MONOAMMONIUM SALT	LD50 (Dermal)	> 7,940 mg/kg	rabbit
IRON OXIDE	LD50 (Dermal)	3,100 mg/kg	
SILICA, AMORPHOUS	LD50 (Dermal)	no data available	
ALUMINUM OXIDE	LD50 (Dermal)	10,000 mg/kg	
SULFUR TRIOXIDE	LD50 (Dermal)	no data available	

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**12. ECOLOGICAL INFORMATION**

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Ecotoxicological Information : There is no data available for this product.

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**13. DISPOSAL CONSIDERATIONS**

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Recommendations: Use excess product in an alternate beneficial application. Handle disposal of waste material in manner which complies with local, state, province and federal regulation.

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**14. TRANSPORT INFORMATION**

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DOT	: Proper shipping name	Not regulated
IATA	: Proper shipping name	Not regulated

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**15. REGULATORY INFORMATION**

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**SARA 311/312 (RTK)**

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendments and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

IMMEDIATE (ACUTE) HEALTH HAZARD   DELAYED (CHRONIC) HEALTH HAZARD

**SARA 313**

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

<u>Weight %</u>	<u>CAS No.</u>	<u>Chemical Name</u>
0.00 - 5.00 %	1344-28-1	ALUMINUM OXIDE

**CERCLA**

CERCLA section 103(a) specifically requires the person in charge of a vessel or facility to report immediately to the National Response Center (NRC) a release of a hazardous substance whose amount equals or exceeds the assigned RQ. The following hazardous substances are contained in this product.

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<u>RQ</u>	<u>CAS No.</u>	<u>Chemical Name</u>
1,000 lbs	7446-11-9	SULFUR TRIOXIDE

### TSCA Section 12(b) Export Notification

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(b) if exported from the United States:

<u>CAS No.</u>	<u>Chemical Name</u>
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There are no TSCA 12(b) Chemicals in this product.

### California Proposition 65

The chemical(s) noted below and contained in this product, are known to the state of California to cause cancer, birth defects or other reproductive harm. Unless otherwise specified in Section 2 of this MSDS, these chemicals are present at < 0.1%:

<u>CAS No.</u>	<u>Chemical Name</u>
14808-60-7	SILICA, CRYSTALLINE QUARTZ
7446-11-9	SULFUR TRIOXIDE

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## 16. OTHER INFORMATION

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Legend	:	N.E. - Not Established TLV - Threshold Limit Value STEL - Short Term Exposure Limit PEL - Permissible Exposure Limit CEIL - Ceiling
Prepared By	:	Environment, Health and Safety Department

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End of MSDS.