

**POLYHEED 997**

Version 1.8

11/05/2007

**1. PRODUCT AND COMPANY INFORMATION**

Company : **BASF Construction Chemicals, LLC**  
Admixture Systems  
23700 Chagrin Blvd  
BEACHWOOD, OH 44122

Telephone : 216-839-8000

Emergency telephone number : BASF ER HOTLINE: 800-832-4357  
CHEMTREC: 800-424-9300  
CHEMTREC (Outside Continental US): 703-527-3887

Product name : POLYHEED 997

MSDS ID No. : 10052

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>
SODIUM NITRATE	7631-99-4		N.E.	N.E.	N.E.	10.00 - 30.00 %
SODIUM THIOCYANATE	540-72-7	N.E.	N.E.	N.E.	N.E.	3.00 - 7.00 %
ETHYLENEDIAMINE	107-15-3	10 ppm	N.E.	10 ppm	N.E.	1.00 - 5.00 %

**3. HAZARDS IDENTIFICATION**

HMIS<sup>®</sup> Rating : HEALTH 2 FLAMMABILITY 0 PHYSICAL HAZARD 0

WHMIS Class : D2B

Primary Routes of Entry : Eye contact  
Skin contact

**Effects of Overexposure**

Inhalation : No hazard anticipated in normal industrial use.

Skin : Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.

Eyes : Can cause slight to moderate transient irritation, redness, tearing and blurred vision.

Ingestion : Can cause slight irritation.

Chronic exposure : No known information available.

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### Carcinogenicity

	ACGIH	IARC	NTP	OSHA
SODIUM NITRATE	N.E.	N.E.	N.E.	N.E.
SODIUM THIOCYANATE	N.E.	N.E.	N.E.	N.E.
ETHYLENEDIAMINE	Not classifiable as a human carcinogen.	N.E.	N.E.	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 : Remove contaminated clothing. Wash thoroughly with soap and water. If irritation persists seek medical attention. Wash contaminated clothing before reuse.
- Ingestion : Do not induce vomiting without medical advice. If conscious, drink plenty of water. If a person feels unwell or symptoms of skin irritation appear, consult a physician. If a person vomits, place him/her in the recovery position. Never give anything by mouth to an unconscious person.
- 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.

## 5. FIRE-FIGHTING MEASURES

- Flash point : does not flash
- Autoignition temperature : not applicable
- Lower explosion limit : not applicable
- Upper explosion limit : not applicable
- Suitable extinguishing media : Use extinguishing agent suitable for type of surrounding fire.
- Fire and Explosion Hazards : Containers can build up pressure if exposed to heat (fire). Cool closed containers exposed to fire with water spray.
- 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 : Wear appropriate protective equipment (refer to section 8). Take action to eliminate source of leak; prevent from entry into open streams or sewers; contain spill by diking; vacuum up liquid or use absorbent media; remove to storage for disposal and rinse residual stain with water.

## 7. HANDLING AND STORAGE

- Handling : Keep out of reach of children. For personal protection see section 8.
- Storage : Keep tightly closed.

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**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

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Eye protection	:	Wear as appropriate: safety glasses with side-shields goggles face-shield
Hand protection	:	Wear as appropriate: impervious gloves
Body Protection	:	Wear as appropriate: impervious clothing preventive skin protection
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. Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke. Handle in accordance with good industrial hygiene and safety practice.
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	:	dark brown
Physical State	:	liquid
Odor	:	musty
pH	:	Approx.8
Odor Threshold	:	no data available
Vapor Pressure	:	no data available
Vapor Density	:	Heavier than air
Boiling point/range	:	212 °F (100 °C)
Freeze Point	:	32 °F (0 °C)
Water solubility	:	completely soluble
Specific Gravity	:	1.27
Viscosity	:	no data available
Evaporation rate	:	no data available
Partition coefficient (n-octanol/water)	:	no data available

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VOC Concentration as applied : 0 g/l  
 (less water and exempt solvents)

### 10. STABILITY AND REACTIVITY

Stability : Stable under recommended storage conditions.

Conditions to avoid : Prolonged exposure to high temperatures

Materials to avoid : strong acids and oxidizing agents

Hazardous decomposition products : Oxides of carbon.  
 Oxides of sulfur  
 nitrogen oxides (NOx)

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>				
SODIUM NITRATE	LC50	no data available		
SODIUM THIOCYANATE	LC50	no data available		
ETHYLENEDIAMINE	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>			
SODIUM NITRATE	LD50 (Oral)	no data available	
SODIUM THIOCYANATE	LD50 (Oral)	no data available	
ETHYLENEDIAMINE	LD50 (Oral)	6,800 mg/kg	

#### Acute dermal toxicity

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

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SODIUM THIOCYANATE	LD50 (Dermal)	no data available	
ETHYLENEDIAMINE	LD50 (Dermal)	730 mg/kg	rabbit

### 12. ECOLOGICAL INFORMATION

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

### 13. DISPOSAL CONSIDERATIONS

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.

### 14. TRANSPORT INFORMATION

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

### 15. REGULATORY INFORMATION

#### 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

#### 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>
10.00 - 30.00 %	7631-99-4	SODIUM NITRATE

#### 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.

<u>RQ</u>	<u>CAS No.</u>	<u>Chemical Name</u>
5,000 lbs	107-15-3	ETHYLENEDIAMINE

No CERCLA chemicals exist in this product above reportable concentrations.

#### 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.

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**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>
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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.