

THOROGLAZE

Version 2.2

7/5/06

1. PRODUCT AND COMPANY INFORMATION

| | | |
|----------------------------|---|---|
| Company | : | BASF Building Systems, Inc. 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 | : | THOROGLAZE |
| MSDS ID No. | : | 10017 |
| 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). |
| Product Use Description | : | Coating |

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> |
|-----------------|----------------|------------|-------------|------------|-------------|-----------------|
| ESTER ALCOHOL | 25265-77-4 | | N.E. | N.E. | N.E. | 1.00 - 5.00 % |
| ETHYLENE GLYCOL | 107-21-1 | N.E. | N.E. | N.E. | 100 mg/m3 | 1.00 - 5.00 % |

3. HAZARDS IDENTIFICATION

| | | | |
|--------------|--------|--------------|-----------------|
| HMIS® Rating | HEALTH | FLAMMABILITY | PHYSICAL HAZARD |
| | 1 | 0 | 0 |

| | | |
|-------------------------|---|--|
| WHMIS Class | : | D2B |
| Primary Routes of Entry | : | Ingestion Inhalation Eye contact Skin contact |

Effects of Overexposure

| | | |
|------------|---|--|
| Inhalation | : | Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Inhalation of high vapor concentrations can cause CNS-depression and narcosis. Prolonged inhalation can be harmful. |
| Skin | : | Prolonged skin contact may defat the skin and produce dermatitis. Prolonged or repeated exposure can cause skin irritation and redness. |
| Eyes | : | Can cause slight irritation. |

THOROGLAZE

- Ingestion : Intake can cause gastrointestinal irritation, nausea, vomiting, diarrhea, headache, and drowsiness.
- Chronic exposure : Prolonged or repeated exposure may cause injuries to the kidney. This product contains solvents. Reports associate repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Reports also indicate that solvents cause liver damage, kidney damage, and mucous membrane irritation. Be warned that intentional misuse by deliberately inhaling the vapors and/or the product contents (a process often called "sniffing") can be harmful or fatal.

Carcinogenicity

| | ACGIH | IARC | NTP | OSHA |
|-----------------|---|------|------|------|
| ESTER-ALCOHOL | N.E. | N.E. | N.E. | N.E. |
| ETHYLENE GLYCOL | 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 : Not combustible.
- Autoignition temperature : no data available
- Lower explosion limit : not applicable
- Upper explosion limit : not applicable
- Suitable extinguishing media : Not combustible.
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.

THOROGLAZE

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. Use only in area provided with appropriate ventilation. For personal protection see section 8.

Storage : Keep tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Color : white

Physical State : liquid

Odor : mild ammoniacal

pH : 9.5 - 10.0

Odor Threshold : no data available

THOROGLAZE

| | |
|---|---|
| Vapor Pressure | : no data available |
| Vapor Density | : Heavier than air |
| Boiling point/range | : 379.00 - 401.00 °F (192.78 - 205.00 °C) |
| Freeze Point | : no data available |
| Water solubility | : partly soluble |
| Specific Gravity | : 1.02 |
| Viscosity | : 2.5 cps |
| Evaporation rate | : Slower than Butyl acetate |
| Partition coefficient (n-octanol/water) | : no data available |
| VOC Concentration as applied (less water and exempt solvents) | : 75 g/l |

10. STABILITY AND REACTIVITY

| | |
|----------------------------------|--|
| Stability | : Stable under recommended storage conditions. |
| Conditions to avoid | : Prolonged exposure to high temperatures |
| Materials to avoid | : strong acids strong bases strong oxidizing agents |
| Hazardous decomposition products | : Oxides of carbon Thermal decomposition can lead to release of irritating gases and vapours. |
| Hazardous polymerization | : Will not occur under normal conditions. |

11. TOXICOLOGICAL INFORMATION

Acute inhalation toxicity

| Product | Type | Value | Species | Exposure time |
|-----------------|------|-------------------|---------|---------------|
| | LC50 | no data available | | |
| Component | | | | |
| ESTER ALCOHOL | LC50 | no data available | | |
| ETHYLENE GLYCOL | LC50 | no data available | | |

THOROGLAZE

Acute oral toxicity

| | Type | Value | Species |
|-----------------|-------------|-------------------|---------|
| Product | LD50 (Oral) | no data available | |
| Component | | | |
| ESTER ALCOHOL | LD50 (Oral) | no data available | |
| ETHYLENE GLYCOL | LD50 (Oral) | 4,700 mg/kg | rat |

Acute dermal toxicity

| | Type | Value | Species |
|-----------------|---------------|-------------------|---------|
| Product | LD50 (Dermal) | no data available | |
| Component | | | |
| ESTER ALCOHOL | LD50 (Dermal) | no data available | |
| ETHYLENE GLYCOL | LD50 (Dermal) | no data available | |

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 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

THOROGLAZE

Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

| Weight % | CAS No. | Chemical Name |
|---------------|----------|-----------------|
| 1.00 - 5.00 % | 107-21-1 | ETHYLENE GLYCOL |

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.

| RQ | CAS No. | Chemical Name |
|-----------|----------|-----------------|
| 5,000 lbs | 107-21-1 | ETHYLENE GLYCOL |

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:

| CAS No. | Chemical Name |
|---------|---------------|
|---------|---------------|

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%:

| CAS No. | Chemical Name |
|----------|----------------|
| 140-88-5 | ETHYL ACRYLATE |
| 75-07-0 | ACETALDEHYDE |
| 123-91-1 | DIOXANE |

16. OTHER INFORMATION

- 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.