

CHEMREX® CX-948

Version 1.4

03/30/2004

1. PRODUCT AND COMPANY INFORMATION

| | | |
|----------------------------|---|---|
| Company | : | Degussa Building Systems 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 | : | CHEMREX® CX-948 |
| MSDS ID No. | : | 10681 |
| 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 | : | Adhesive |

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> |
|---|----------------|------------|-------------|------------|-------------|-----------------|
| HYDROTREATED MIDDLE PETROLEUM DISTILLATES | 64742-46-7 | N.E. | N.E. | N.E. | N.E. | 5.00 - 10.00 % |
| METHYLENE BISPHENYL DIISOCYANATE | 101-68-8 | 0.005 ppm | N.E. | N.E. | 0.02 ppm | 1.00 - 5.00 % |
| POLYMETHYLENE POLYPHENYL ISOCYANATE | 9016-87-9 | N.E. | N.E. | N.E. | N.E. | 1.00 - 5.00 % |

3. HAZARDS IDENTIFICATION

| | | | |
|-------------------------|---|--------------|-----------------|
| HMIS® Rating | HEALTH | FLAMMABILITY | PHYSICAL HAZARD |
| | 2 | 1 | 0 |
| WHMIS Class | : D2B | | |
| Primary Routes of Entry | : Skin contact Inhalation Eye 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. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. May cause sensitization by skin contact. |

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- Eyes : Can cause slight irritation.
- Ingestion : Intake can cause gastrointestinal irritation, nausea, and vomiting.
- Chronic exposure : Existing respiratory or skin ailments may be aggravated by exposure. 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. This product contains isocyanates. Prolonged repeated exposure to isocyanates can lead to skin sensitization. For persons so sensitized even brief exposures to an isocyanate can produce reddening, swelling, rash, or blisters. Similarly, prolonged and repeated exposure to isocyanates can lead to respiratory sensitization. In such individuals, brief exposures to isocyanates at levels well below established exposure limits can produce chemical asthma and nonspecific asthmatic conditions.

Carcinogenicity

| | ACGIH | IARC | NTP | OSHA |
|---|-------|----------|------|------|
| HYDROTREATED MIDDLE PETROLEUM DISTILLATES | N.E. | N.E. | N.E. | N.E. |
| METHYLENE BISPHENYL DIISOCYANATE | N.E. | No data. | N.E. | N.E. |
| POLYMETHYLENE POLYPHENYL ISOCYANATE | N.E. | No data. | 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 : 250.00 °F (121.11 °C)
- Autoignition temperature : no data available
- Lower explosion limit : 1.6 %(V)
- Upper explosion limit : 10.2 %(V)
- Suitable extinguishing media : carbon dioxide (CO2)
dry chemical
water fog

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- Fire and Explosion Hazards : Containers can build up pressure if exposed to heat (fire). Cool closed containers exposed to fire with water spray. Solid stream of water or foam can cause frothing.
- Special Fire-fighting Procedures : As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

- Methods for cleaning up : Wear appropriate protective equipment. 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 : Use only in area provided with appropriate ventilation. Keep out of reach of children. For personal protection see section 8.
- Storage : Keep tightly closed in a dry and cool place.

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 appropriate certified 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 : tan
- Physical State : paste
- Odor : mild oily
- pH : no data available

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| | | |
|---|---|---|
| Odor Threshold | : | no data available |
| Vapor Pressure | : | no data available |
| Vapor Density | : | Heavier than air |
| Boiling point/range | : | 342.00 - 514.00 °F (172.22 - 267.78 °C) |
| Freeze Point | : | no data available |
| Water solubility | : | slightly soluble |
| Specific Gravity | : | 1.26 |
| Viscosity | : | no data available |
| Evaporation rate | : | Slower than Butyl acetate |
| Partition coefficient (n-octanol/water) | : | no data available |
| VOC Concentration as applied (less water and exempt solvents) | : | 45 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 | : | Burning produces obnoxious and toxic fumes. Oxides of carbon |
| Hazardous polymerization | : | Will not occur when handled according to instructions. |

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> | | | | |
| HYDROTREATED MIDDLE PETROLEUM DISTILLATES | LC50 | no data available | | |
| METHYLENE BISPHENYL DIISOCYANATE | LC50 | no data available | | |
| POLYMETHYLENE POLYPHENYL ISOCYANATE | LC50 | no data available | | |

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Acute oral toxicity

| <u>Product</u> | <u>Type</u> | <u>Value</u> | <u>Species</u> |
|---|-------------|-------------------|----------------|
| | LD50 (Oral) | no data available | |
| <u>Component</u> | | | |
| HYDROTREATED MIDDLE PETROLEUM DISTILLATES | LD50 (Oral) | no data available | |
| METHYLENE BISPHENYL DIISOCYANATE | LD50 (Oral) | 9,200 mg/kg | |
| POLYMETHYLENE POLYPHENYL ISOCYANATE | 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> | | | |
| HYDROTREATED MIDDLE PETROLEUM DISTILLATES | LD50 (Dermal) | no data available | |
| METHYLENE BISPHENYL DIISOCYANATE | LD50 (Dermal) | no data available | |
| POLYMETHYLENE POLYPHENYL ISOCYANATE | 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

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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> |
|-----------------|----------------|-------------------------------------|
| 1.00 - 5.00 % | 101-68-8 | METHYLENE BISPHENYL DIISOCYANATE |
| 1.00 - 5.00 % | 9016-87-9 | POLYMETHYLENE POLYPHENYL ISOCYANATE |

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 | 101-68-8 | METHYLENE BISPHENYL DIISOCYANATE |

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> |
|----------------|----------------------|
|----------------|----------------------|

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> |
|----------------|----------------------------|
| 7440-38-2 | ARSENIC |
| 7439-92-1 | INORGANIC LEAD |
| 7440-43-9 | CADMIUM |
| 14808-60-7 | SILICA, CRYSTALLINE QUARTZ |

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 |

This information is furnished without warranty, representation, or license of any kind, except that this information is accurate to the best of the manufacturer's knowledge, or is obtained from sources believed by the manufacturer to be accurate and is not intended to be all inclusive. No warranty is expressed or implied regarding the accuracy of this information or the results to be obtained from its use thereof. The manufacturer assumes no responsibility for injuries proximately caused by use of the Material if reasonable safety procedures are not followed as stipulated in this Data Sheet. Additionally, the manufacturer assumes no responsibility for injuries proximately caused by abnormal use of the Material even if reasonable safety procedures are followed. Buyer assumes the risk in its use of the Material.

End of MSDS.