

**W. R. GRACE**  
MATERIAL SAFETY DATA SHEET

Product Name: Grace Tri-flex Roofing Underlayments  
MSDS ID Number: M-85809

MSDS Date: 05/14/08

**SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**Product Name:** Grace Tri-flex Roofing Underlayments  
**MSDS Number:** M-85809  
**Cancelled MSDS Number:** M-85737  
**MSDS Date:** 05/14/08  
**Chemical Family Name:** Polyolefin coated sheet  
**Product Use:** Roofing underlayment  
**Chemical Formula:** Mixture-NA  
**CAS # (Chemical Abstracts Service Number):** Mixture-NA

**Manufactured by:**

W.R.Grace & Co.-Conn.  
62 Whittemore Avenue  
Cambridge, MA 02140

Grace Canada, Inc.  
294 Clements Road West  
Ajax, Ontario L1S 3C6

**In Case of Emergency Call:**

In USA: (617) 876-1400 In Canada: (905) 683-8561

**SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS**

| <b>Ingredient</b>       | <b>CAS#</b> | <b>Percent (max)</b> |
|-------------------------|-------------|----------------------|
| Polyolefin coated sheet | NA          | 100                  |

**SECTION 3 - HAZARDS IDENTIFICATION**

**Emergency Overview:**

**Caution!**  
Caution!  
Slippery when wet, dusty or covered with frost, ice or snow.

**HMIS Rating:**

Health: 0  
Flammability: 0  
Reactivity: 0  
Personal Protective Equipment:

**Potential Health Effects:**

**Inhalation:**

Due to the physical nature of this product (sheet), inhalation exposure is not possible.

**Eye Contact:**

Due to the physical nature of this product (sheet), eye contact is not possible.

**Skin Contact:** No hazardous effects from skin contact.

**Skin Absorption:**

Can not be absorbed through the skin.

**Ingestion:**

Due to the physical nature of this product (sheet), ingestion is not likely.

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**SECTION 4 - FIRST AID MEASURES:**

**Skin Contact:**

No first aid measures required.

**Eye Contact:**

Due to physical nature of this product eye contact is not likely.

**Ingestion:**

Due to physical nature of this product, ingestion is not likely.

**Inhalation:**

Due to physical nature of this product, inhalation is not likely.

**SECTION 5 - FIRE AND EXPLOSION HAZARD DATA**

|                                   |                |
|-----------------------------------|----------------|
| <b>Flash Point:</b>               | Not Applicable |
| <b>Flash Point Method:</b>        | Not Applicable |
| <b>Lower Explosion Limit:</b>     | Not Available  |
| <b>Upper Explosion Limit:</b>     | Not Available  |
| <b>Auto-Ignition Temperature:</b> | Not Available  |

**NFPA Rating:**

|                      |   |
|----------------------|---|
| <b>Health:</b>       | 1 |
| <b>Flammability:</b> | 1 |
| <b>Reactivity:</b>   | 0 |

**Extinguishing Media:** In case of fire, use water spray, dry chemical, Carbon dioxide or foam.

**Special Fire Fighting Procedures:**

Firefighters should be equipped with Self-contained Breathing Apparatus (SCBA) to prevent inhalation of hazardous decomposition products. (See Section 10.)

**Unusual Fire and Explosion Hazards:**

None unless noted below.

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**SECTION 6 - ACCIDENTAL RELEASE MEASURES:**

**Spills/Leaks:**

Due to physical nature of this product spills/leaks are not possible.

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**SECTION 7 - HANDLING AND STORAGE**

**Precautionary Measures:**

- Comply with all OSHA and other safety standards and codes for roof work.
  - Always use Fall Protection Systems when working on roofs.
  - TRI-FLEX may be slippery when wet or dusty or covered with frost, ice or snow.
  - Never walk on TRI-FLEX that has not been securely fastened to the roof deck.
  - Use roof jacks, toe boards or storage platforms secured to the underlying roof deck to Prevent slippage of stored roofing materials.
  - Stay well away from power lines and be sure that neither your body nor equipment has contact with them.
  - On steep pitched roof surfaces, roof jacks and planks must be used to stand on. Follow ladder safety standards and codes.
  - Never leave scraps, wrappers or other debris scattered over the roof.
- FOR PROFESSIONAL USE ONLY. KEEP OUT OF CHILDREN'S REACH.

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**SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT**

**EXPOSURE GUIDELINES (US)**

| Ingredient              | ACGIH TLV |      |         | OSHA PEL |      |         | Other |
|-------------------------|-----------|------|---------|----------|------|---------|-------|
|                         | TWA       | STEL | Ceiling | TWA      | STEL | Ceiling |       |
| Polyolefin coated sheet | -         | -    | -       | -        | -    | -       | -     |

**EXPOSURE GUIDELINES (CANADA)**

Physical nature of this product as supplied (Sheet) does allow for specific exposure.

**Engineering Controls:** Not generally required.

**Personal Protective Equipment:**

**Respiratory Protection:** Respiratory protection is not normally required.

**Skin Protection:** Normal work gloves are recommended.

**Eye Protection:** Eye protection is not normally required.

**Work/Hygienic Practices:** Use good personal hygiene practices.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

|   |                                   |
|---|-----------------------------------|
| <b>Physical State:</b>                        | Solid                             |
| <b>Appearance/Odor:</b>                       | Varying colored Polyolefin sheet. |
| <b>Odor Threshold: (ppm)</b>                  | Not Applicable                    |
| <b>pH:</b>                                    | Not Applicable                    |
| <b>Vapor Pressure: (Mm Hg)</b>                | Not Applicable                    |
| <b>Vapor Density: (Air = 1)</b>               | Not Applicable                    |
| <b>Solubility In Water:</b>                   | Not Applicable                    |
| <b>Specific Gravity: (Water = 1)</b>          | Not Applicable                    |
| <b>Evaporation Rate: (Butyl Acetate = 1)</b>  | Not Applicable                    |
| <b>Boiling Point:</b>                         | Not Applicable                    |
| <b>Viscosity:</b>                             | Not Applicable                    |
| <b>Bulk Density: (Pounds/Cubic Foot)(Pcf)</b> | Not determined                    |
| <b>% Volatiles (gr/L): (70°F) (21°C)</b>      | Not Applicable                    |

**SECTION 10 - STABILITY AND REACTIVITY**

|  |                                 |
|--|---------------------------------|
| <b>Chemical Stability:</b>               | Stable                          |
| <b>Conditions To Avoid:</b>              | None Known.                     |
| <b>Hazardous Polymerization:</b>         | Will not polymerize.            |
| <b>Hazardous Decomposition Products:</b> | Carbon dioxide, Carbon Monoxide |

**SECTION 11 - TOXICOLOGICAL INFORMATION**

**Ingredient (No data unless listed.)**                      **CAS Number**                      **LD50 and LC50**

**Carcinogenicity:**

| Ingredient              | IARC Group 1 | IARC Group 2A | IARC Group 2B | NTP Known | NTP Suspect | OSHA |
|-------------------------|--------------|---------------|---------------|-----------|-------------|------|
| Polyolefin coated sheet | No           | No            | No            | No        | No          | No   |

**Mutagenicity:** Not applicable.

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**Teratogenicity:** Not applicable.  
**Reproductive Toxicity:** Not applicable.

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**SECTION 12 - ECOLOGICAL INFORMATION**

**Environmental Fate:** No data available for product.  
**Ecotoxicity:** No data available for product.

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**SECTION 13 - DISPOSAL CONSIDERATIONS**

**Waste Disposal Procedures:**  
Dispose of waste in accordance with all applicable regulations.

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**SECTION 14 - TRANSPORTATION INFORMATION**

**Proper Shipping Name:** Not Applicable  
**UN/NA Number:** Not Applicable  
**Domestic Hazard Class:** Not Applicable  
**Surface Freight Classification:** Not Applicable  
**Label/Placard Required:** Not Applicable

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**SECTION 15 - REGULATORY INFORMATION**

**REGULATORY CHEMICAL LISTS:**

**CERCLA (Comprehensive Response Compensation and Liability Act):**  
**(None present unless listed below)**

| <u>Chemical Name</u> | <u>CAS #</u> | <u>Wt %</u> | <u>CERCLA RQ</u> |
|----------------------|--------------|-------------|------------------|
|----------------------|--------------|-------------|------------------|

**SARA Title III (Superfund Amendments and Reauthorization Act)**

**SARA Section 312/Tier I & II Hazard Categories:**

|                          |    |
|--------------------------|----|
| Health Immediate (acute) | No |
| Health Delayed (chronic) | No |
| Flammable                | No |
| Reactive                 | No |
| Pressure                 | No |

**302 Reportable Ingredients (Identification Threshold 1%):**

| <u>Chemical Name</u> | <u>CAS #</u> | <u>Wt %</u> | <u>SARA 302 TPQ</u> |
|----------------------|--------------|-------------|---------------------|
|----------------------|--------------|-------------|---------------------|

**313 Reportable Ingredients (Chemicals present below reporting threshold are exempt):**

| <u>Chemical Name</u> | <u>CAS #</u> | <u>Wt %</u> |
|----------------------|--------------|-------------|
|----------------------|--------------|-------------|

**National Volatile Organic Compound Emission Standards For Architectural Coatings:**

**Volatile Organic Content:** (gr/L) Not Applicable

**WHMIS Classification(s):** Not Controlled

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This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR). This MSDS contains all the information required by the CPR.

**State Regulatory Information:**

**California Proposition 65:** This product does not contain substances known to the state of California to cause cancer, birth defects or other reproductive harm.

**Massachusetts Hazardous Substance List (Identification threshold 0.001%(1ppm)):**

| <u>Chemical Name</u> | <u>CAS #</u> | <u>Wt %</u> |
|----------------------|--------------|-------------|
|----------------------|--------------|-------------|

**New Jersey Hazardous Substance List (Identification threshold (0.1%)):**

| <u>Chemical Name</u> | <u>CAS #</u> | <u>Wt %</u> |
|----------------------|--------------|-------------|
|----------------------|--------------|-------------|

**Pennsylvania Hazardous Substance List (Identification threshold 0.01%):**

| <u>Chemical Name</u> | <u>CAS #</u> | <u>Wt %</u> |
|----------------------|--------------|-------------|
|----------------------|--------------|-------------|

**CHEMICAL INVENTORY STATUS:**

All chemicals in this product are listed or exempt from listing in the following countries:

| US   | CANADA |      | EUROPE        | AUSTRALIA | JAPAN | KOREA | PHILIPPINES |
|------|--------|------|---------------|-----------|-------|-------|-------------|
| TSCA | DSL    | NDSL | EINECS/ELINCS | AICS      | ENCS  | ECL   | PICCS       |
| Yes  | Yes    | Yes  | Yes           | Yes       | Yes   | Yes   | Yes         |

**SECTION 16 - OTHER INFORMATION**

**Non-Hazardous Ingredient Disclosure:**

| <u>Chemical Name</u>    | <u>CAS Number</u> |
|-------------------------|-------------------|
| Polyolefin coated sheet | NA                |

**Prepared by:** EH&S Department  
**Approved by:** EH&S Department  
**Approved Date:** 05/14/08

**Disclaimer:**

"The data included herein are presented in accordance with various environment, health and safety regulations. It is the responsibility of a recipient of the data to remain currently informed on chemical hazard information, to design and update its own program and to comply with all national, federal, state and local laws and regulations applicable to safety, occupational health, right-to-know and environmental protection."