



# American Industrial Safety Data Sheet

## 1. Product and Company Information

Product Information	Company Information
Product Name: <b>TerraThane RedLine Part A</b>	American Industrial
Product Type: Polyurea Floor Coating	1218 W 41st ST STE B
Date MSDS Prepared: 07/01/2015	Tulsa, OK 74107
Supersedes: 03/01/2012	Information: 918-445-0627
MSDS Prepared by: jrc	

**\*\*\* 24 Hour Emergency Phone Number: Infotrac: 1-800-535-5053 \*\*\***

## 2. Hazards Identification

**Emergency Overview:** May irritate skin. Repeated exposure may cause sensitization. May cause severe eye irritation. Inhalation irritant. May cause upper respiratory tract irritation or sensitization. Harmful if swallowed. Irritating to mouth, throat, and stomach.

### GHS Classification:

Serious Eye damage/Eye Irritant  
Skin sensitization

Category 2A  
Category 1

### GHS Label Elements:

#### Hazard Symbols:



**Signal Words:** Warning

### Hazard Statements:

H317 May cause an allergic skin reaction

H319 Causes serious eye irritation

H372 May cause damage to organs through prolonged or repeated exposure

### Precautionary Statements:

Prevention: P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
P261 Avoid breathing dust/gas/mist/vapours/spray

P264 Wash hands thoroughly after handling  
 P272 Contaminated work clothing should not be allowed out of the workplace  
 P280 Wear protective gloves/protective clothing /eye protection/face protection  
 Response: P302+P352 IF ON SKIN (or hair): Wash with plenty of soap and water  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention  
 P363 Wash contaminated clothing before reuse  
 Storage: P404+P233 Store in a well-ventilated place. Keep container tightly closed.  
 Disposal: P501 Dispose of contents/container in accordance with local/regional/national regulation.

### 3. Composition/Information on Ingredients

Ingredient	Wt. Percent Range	CAS
Amine mixture	90-100	Proprietary
4-Chlorobenzotrifluoride	0-10	98-56-6

### 4. First Aid Measures

**Skin Contact:** Remove contaminated clothing. Wash with soap and water. Seek medical attention if irritation occurs. Wash contaminated clothes separately before reuse.

**Eye Contact:** Remove contact lenses at once. Immediately flush with water for at least 15 minutes. Hold eyelids apart while rinsing. Seek medical attention if irritation persists.

**Inhalation:** Remove victim to fresh air. If not breathing, give artificial respiration. If symptoms persist, seek medical attention.

**Ingestion:** Do **NOT** induce vomiting. Get immediate medical attention. Never give something by mouth to an unconscious or convulsing person.

### 5. Fire Fighting Measures

**Flash Point:** 200°F (TCC)                      **Flammable Limits:** LEL = Not Established                      UEL = Not Established

**Extinguishing Media:** Use foam, carbon dioxide, dry chemical or water fog.

**Fire Fighting Procedures:** Full protective clothing and self contained breathing apparatus should be worn. Use water fine spray to cool containers.

**Unusual Fire and Explosion Hazards:** Closed containers can explode due to buildup of pressure. Ammonia gas may be liberated at high temperatures. Heated vapors can travel to source of ignition and flash back.

**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, nitrogen oxides.

### 6. Accidental Release Measures

**Spill Response:** Ventilate the area. Contain spill if possible, preventing entry into sewers and waterways. Absorb with an inert material such as dry sand or earth and place in a chemical waste container for disposal. Avoid combustible materials such as sawdust. Avoid personal contact.

## 7. Handling and Storage

**Handling:** Handle in a manner to minimize personal contact.

**Storage:** Store at normal room temperature away from heat, sparks, and flames. Keep container tightly closed when not in use.

## 8. Exposure Control/Personal Protection

### Exposure Limits

Ingredient	ACGIH TLV	Oral LD 50	Dermal LD 50	Inhalation LC 50
Amine mixture	Not Established	Not Established	Not Established	Not Established
4-Chlorobenzotrifluoride	Not established	>6.8 g/kg	>2.7 g/kg	4479 ppm

### Personal Protective Equipment

**Skin:** Wear impervious gloves, clothing, and boots.

**Eyes:** Do not wear contact lenses. Wear safety glasses with side shield.

**Respiratory:** Not ordinarily required. When necessary, use a properly fitting NIOSH/MSHA approved respirator with organic vapor cartridge.

**Ventilation:** Provide adequate ventilation, particularly in confined areas.

## 9. Physical and Chemical Properties

<b>Physical State:</b> Liquid	<b>Boiling Point:</b> >300°F
<b>Odor:</b> Low	<b>Vapor Pressure:</b> <0.1 mm Hg at 70°F
<b>Specific Gravity:</b> 1.05	<b>Vapor Density:</b> Heavier than air
<b>Volatile by Volume:</b> <1%	<b>Solubility in Water:</b> Slight Solubility

## 10. Stability and Reactivity

**Stability:** Stable under normal conditions.

**Hazardous Polymerization:** Will not occur.

**Conditions and Materials to Avoid:** Acids, strong oxidizing agents.

**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, nitrogen oxides.

## 11. Toxicological Information

**Chronic Exposure:** Allergic reaction and skin sensitization.

**Mutagens:**

**Teratogens:**

**Carcinogens:**

No information available if blank.

## 12. Ecological information

Not available at this time.

## 13. Disposal Considerations

Dispose of in accordance with federal, state, and local regulations.

## 14. Transport Information

	<b>U.S. DOT</b>	<b>IATA</b>	<b>International Maritime</b>
<b>Shipping Name:</b>	Paint, Not regulated	Paint, Not regulated	Paint, Not regulated
<b>Hazard Class:</b>	Not Regulated	Not Regulated	Not Regulated
<b>UN ID Number:</b>	NA	NA	NA
<b>Packing Group:</b>	NA	NA	NA

## 15. Regulatory Information

### U.S. FEDERAL REGULATIONS:

This Material Safety Data Sheet (MSDS) has been prepared in compliance with the federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

### SARA 311/312 Hazard Class:

Acute:	Yes
Chronic:	Yes
Flammability:	Yes
Reactivity:	No
Sudden Pressure:	No

**SARA Reporting Requirements:** The components of this product are not subject to the reporting requirements of Sections 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act.

**SARA Threshold Planning Quantity:** Not applicable.

**CERCLA Reportable Quantity (RQ):** Not listed

### U.S. STATE REGULATIONS:

**Rule 66 Status:** Not photochemically reactive

### INTERNATIONAL REGULATIONS:

**TSCA Inventory:** All components of this product are in compliance with U.S. TSCA Chemical Substance Inventory Requirements.

**Canada Domestic Substances List:** All components of this product are listed on the Domestic Substances List

## 16. Other Information

<b>HMIS Codes:</b>	HEALTH	2
	FIRE	1
	REACTIVITY	0



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Product Information	Company Information
Product Name: TerraThane Part B	American Industrial
Product Type: Polyurea Floor Coating	1218 W 41st ST STE B
Date MSDS Prepared: 07/01/2015	Tulsa, OK 74107
Supersedes: 03/01/2012	Information: 918-445-0627
MSDS Prepared by: jrc	

**\*\*\* 24 Hour Emergency Phone Number: Infotrac: 1-800-535-5053 \*\*\***

## 2. Hazards Identification

**Emergency Overview:** Skin sensitizer. Respiratory sensitizer. May irritate skin. Eye irritant. Will not permanently damage eye tissue. Inhalation irritant. This product presents an elevated inhalation health risk when used in spray applications. Harmful if swallowed. May enter lungs and cause damage.

### GHS Classification:

Acute toxicity (oral)	Category 4
Single target organ toxicity	Category 3, irritating to respiratory system – Single exposure
Skin sensitization	Category 1

### GHS Label Elements:

#### Hazard Symbols:



**Signal Words:** Warning

### Hazard Statements:

H317 May cause an allergic skin reaction  
H332 Harmful if inhaled  
H335 May cause respiratory irritation

### Precautionary Statements:

Prevention: P260 Do not breathe dust/gas/mist/vapours  
P264 Wash hands thoroughly after handling

P271 Use only outdoors or in a well ventilated area  
P272 Contaminated work clothing should not be allowed out of the workplace  
P280 Wear protective gloves/protective clothing /eye protection/face protection  
Response: P333+P311 If skin irritation or rash occurs: Call a POISON CENTER or doctor/physician  
P304+P340 IF INHALED: Remove to fresh air and keep comfortable for breathing  
P303+P352 IF ON SKIN (or hair): Wash with plenty of soap and water  
P362+P364 Take off contaminated clothing and wash before reuse  
Storage: P403+P233 Store in a well ventilated place. Keep container tightly closed.  
P405 Store locked up.  
Disposal: P501 Dispose of contents/container in accordance with local/regional/national regulation.

### 3. Composition/Information on Ingredients

Ingredient	Wt. Percent Range	CAS
Homopolymer of hexamethylene diisocyanate	100	28182-81-2
Hexamethylene diisocyanate	<0.15	822-06-0

### 4. First Aid Measures

**Skin Contact:** Remove contaminated clothing. Wash with soap and water. Seek medical attention if irritation occurs. Wash contaminated clothes separately before reuse.

**Eye Contact:** Remove contact lenses at once. Immediately flush with water for at least 15 minutes. Hold eyelids apart while rinsing. Seek medical attention if irritation persists.

**Inhalation:** Remove victim to fresh air. Provide oxygen if breathing is difficult. Asthmatic symptoms may develop and may be delayed. If symptoms persist, seek medical attention.

**Ingestion:** Do **NOT** induce vomiting. Get immediate medical attention. Never give something by mouth to an unconscious or convulsing person.

### 5. Fire Fighting Measures

**Flash Point:** 316°F (TCC)                      **Flammable Limits:** LEL = Not Established                      UEL = Not Established

**Extinguishing Media:** For small fires, use carbon dioxide or dry chemical; do not use water.

**Fire Fighting Procedures:** Full protective clothing and self contained breathing apparatus should be worn. Use water fine spray to cool containers.

**Unusual Fire and Explosion Hazards:** Closed containers can explode under extreme heat or when contents are contaminated with water. Isocyanate vapors and other irritating, highly toxic gases may be generated by combustion.

**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, nitrogen oxides, HDI, HCN

### 6. Accidental Release Measures

**Spill Response:** Remove sources of ignition. Ventilate the area. Contain spill if possible, preventing entry into sewers and waterways. Absorb with an inert material such as dry sand or earth and place in a chemical waste container for disposal. Wash area with decontamination solution.

## 7. Handling and Storage

**Handling:** Handle in a manner to minimize personal contact.

**Storage:** Store at normal room temperature away from heat, sparks, and flames. Keep container tightly closed when not in use to prevent moisture contamination. Do not reseal if contamination is suspected.

## 8. Exposure Control/Personal Protection

### Exposure Limits

Ingredient	ACGIH TLV	Oral LD 50	Dermal LD 50	Inhalation LC 50
Homopolymer of HDI	0.5 ppm/1.0ppm	>10,000 mg/kg	>5000 mg/kg	137-1150 ppm
Hexamethylene diisocyanate	0.005 ppm/.02C	Not Established	Not Established	Not Established

### Personal Protective Equipment

**Skin:** Wear impervious gloves, clothing, and boots.

**Eyes:** Do not wear contact lenses. Wear safety glasses with side shield.

**Respiratory** Not required below threshold limits (Section 8). When necessary, use a properly fitting NIOSH/MSHA respirator approved for isocyanates.

**Ventilation:** Provide adequate ventilation, particularly in confined areas.

## 9. Physical and Chemical Properties

<b>Physical State:</b> Liquid	<b>Boiling Point:</b> >382 °F
<b>Odor:</b> Low odor	<b>Vapor Pressure:</b> <0.01 mm Hg at 70°F
<b>Specific Gravity:</b> 1.16	<b>Vapor Density:</b> Heavier than air
<b>Volatile by Volume:</b> <1%	<b>Solubility in Water:</b> Insoluble, reacts

## 10. Stability and Reactivity

**Stability:** Stable under normal conditions.

**Hazardous Polymerization:** May occur from contact with moisture or other materials which react with isocyanates.

**Conditions and Materials to Avoid:** Reacts violently with water, alcohols, bases, and amines.

**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, nitrogen oxides, HDI, HCN.

## 11. Toxicological Information

**Chronic Exposure:** Eyes: May cause conjunctivitis. Skin: Sensitization. Inhalation: Isocyanate sensitization (chemical asthma) and lung damage.

**Mutagens:**

**Teratogens:**

**Carcinogens:**



No information available if blank.

## 12. Ecological information

Not available at this time.

## 13. Disposal Considerations

Dispose of in accordance with federal, state, and local regulations.

## 14. Transport Information

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<b>Hazard Class:</b>	Not Regulated	Not Regulated	Not Regulated
<b>UN ID Number:</b>	NA	NA	NA
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