



Material Safety Data Sheet

Preparation Date: 30-Dec-2009

Revision Date: 29-Dec-2009

Revision Number: 0

1. PRODUCT AND COMPANY IDENTIFICATION

Product Code F130-0130A
Trade Name ENVIROFILL PART A
Contact Manufacturer Tnemec Company, Inc. 6800 Corporate Drive, Kansas City, MO 64120-1372
Emergency Telephone Number 800-535-5053 (INFOTRAC) - TNE MEC REGULATORY DEPT: 816-474-3400

2. HAZARDS IDENTIFICATION

Emergency Overview

WARNING!

HARMFUL IF INHALED.
MAY AFFECT THE BRAIN OR NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA.
MAY CAUSE EYE, SKIN, NOSE, THROAT AND RESPIRATORY TRACT IRRITATION.
OVEREXPOSURE MAY CAUSE KIDNEY DAMAGE.

Potential Health Effects

Principle Routes of Exposure Eye contact, Inhalation, Skin contact.

Acute Effects

Eyes Irritating to eyes.
Skin Irritating to skin.
Inhalation Irritating to respiratory system. Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs.
Ingestion May be harmful if swallowed.

Chronic Effects

NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Cancer hazard. Contains crystalline silica which can cause cancer. (Risk of cancer depends on duration and level of exposure.)

See Section 11 for additional Toxicological information.

Aggravated Medical Conditions Central nervous system. Skin disorders.

Interactions with Other Chemicals Use of alcoholic beverages may enhance toxic effects.

Potential Environmental Effects See Section 12 for additional Ecological information

Target Organ Effects Central nervous system, Central Vascular System, Eyes, Lungs, Respiratory system, Skin

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components

| Component | CAS-No | Weight % |
|-----------|--------|----------|
|-----------|--------|----------|

3. COMPOSITION/INFORMATION ON INGREDIENTS

| | | |
|---|------------|---------|
| ALUMINUM SILICATE (TOTAL DUST) | 1332-58-7 | 10 - 30 |
| TALC (RESPIRABLE DUST) | 14807-96-6 | 1 - 5 |
| ETHYLENE GLYCOL | 107-21-1 | 4.066 |
| TITANIUM DIOXIDE (TOTAL DUST) | 13463-67-7 | 1 - 5 |
| 2,2,4-TRIMETHYL-1,3-PENTANEDIOL MONOISOBUTYRATE | 25265-77-4 | 1.9493 |
| NONIONIC SURFACTANT | 9036-19-5 | 1 - 5 |
| CRYSTALLINE SILICA (QUARTZ) | 14808-60-7 | 1.3037 |

4. FIRST AID MEASURES

| | |
|---------------------|--|
| Eye Contact | Rinse thoroughly with plenty of water for at least 15 minutes. |
| Skin Contact | Wash off immediately with soap and plenty of water. |
| Ingestion | If swallowed, do not induce vomiting. Get medical attention immediately. |
| Inhalation | Move to fresh air. Oxygen or artificial respiration if needed. |

5. FIRE-FIGHTING MEASURES

| | |
|---|---|
| Flammable Properties | No information available. |
| Suitable Extinguishing Media | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Contact with water may cause violent frothing. Use: Carbon dioxide (CO ₂) - Foam - Dry chemical |
| Hazardous Decomposition Products | Oxides of carbon, hydrocarbons. Oxides of nitrogen. Formaldehyde. |

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapours. In the event of fire and/or explosion do not breathe fumes.

Protective Equipment and Precautions for Firefighters

Use water spray to cool unopened containers. In the event of fire, wear self-contained breathing apparatus. Keep away from heat/sparks/open flames/hot surfaces. May cause heat and pressure build-up in closed containers.

6. ACCIDENTAL RELEASE MEASURES

| | |
|----------------------------------|---|
| Personal Precautions | Avoid contact with skin, eyes and clothing. Use personal protective equipment. Remove all sources of ignition. |
| Environmental Precautions | Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. |
| Methods for Cleaning Up | If spilled, contain spilled material and remove with inert absorbent. Dispose of contaminated absorbent, container and unused contents in accordance with local, state and federal regulations. |
| Other Information | Not applicable |

7. HANDLING AND STORAGE

Handling

Close container after each use. Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product. When used in a mixture, read the labels and safety data sheets of all components. Wash thoroughly after handling.

Storage

Prevent build-up of vapors by opening all windows and doors to achieve cross ventilation.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

| Component | ACGIH TLV | OSHA PEL | Quebec TWAEV | Ontario TWAEV | Mexico OEL (TWA) |
|--------------------------------|--------------------------------|--|--|-----------------------------|--|
| ALUMINUM SILICATE (TOTAL DUST) | TWA: 2 mg/m ³ | TWA: 5 mg/m ³ TWA: 10 mg/m ³ TWA: 15 mg/m ³ | TWA: 5 mg/m ³ | TWA: 2 mg/m ³ | TWA: 10 mg/m ³ STEL: 20 mg/m ³ |
| TALC (RESPIRABLE DUST) | TWA: 2 mg/m ³ | TWA: 2 mg/m ³ | TWA: 3 mg/m ³ | TWA: 2 mg/m ³ | TWA: 2 mg/m ³ |
| ETHYLENE GLYCOL | Ceiling: 100 mg/m ³ | Ceiling: 50 ppm Ceiling: 125 mg/m ³ | Ceiling: 50 ppm Ceiling: 127 mg/m ³ | CEV: 100 mg/m ³ | Peak: 100 mg/m ³ |
| TITANIUM DIOXIDE (TOTAL DUST) | TWA: 10 mg/m ³ | TWA: 10 mg/m ³ TWA: 15 mg/m ³ | TWA: 10 mg/m ³ | TWA: 10 mg/m ³ | TWA: 10 mg/m ³ STEL: 20 mg/m ³ |
| CRYSTALLINE SILICA (QUARTZ) | TWA: 0.025 mg/m ³ | TWA: 0.1 mg/m ³ | TWA: 0.1 mg/m ³ | TWA: 0.10 mg/m ³ | TWA: 0.1 mg/m ³ |

Engineering Measures

Ensure adequate ventilation, especially in confined areas

Personal Protective Equipment

Skin Protection

Lightweight protective clothing, Apron, Impervious gloves

Eye/face Protection

Safety glasses with side-shields

Respiratory Protection

Use only with adequate ventilation. Do not breathe dust, vapors or spray mist. Ensure fresh air entry during application and drying. If you experience eye watering, headache or dizziness or if air monitoring demonstrates vapor/mist levels are above applicable limits, wear an appropriate, properly fitted respirator (NIOSH approved) during and after application. Follow respirator manufacturer's directions for respirator use.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice. Avoid breathing dust created by cutting, sanding, or grinding.

9. PHYSICAL AND CHEMICAL PROPERTIES

Flash Point

Not applicable

Boiling Point/Range

100 - 260°C / 212.0 - 500.0°F

Upper Exposure Limits

No information available

Lower Exposure Limits

No information available

Evaporation Rate

No information available

Vapour Pressure

No information available

Vapour Density

No information available

Specific Gravity

.97406

Density

8.10560

VOC Content (lbs/gal)

.730

% Volatile by Weight

39.4140

% Volatile by Volume

38.0797

10. STABILITY AND REACTIVITY

Chemical stability

Stable.

Conditions to Avoid

Heat, flames and sparks.

Incompatible Products

Strong oxidizing agents. Acids.

Possibility of Hazardous Reactions

None under normal processing

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Component Information

| Component | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|---|---------------------|-----------------------|-----------------|
| ETHYLENE GLYCOL | 4000 mg/kg (Rat) | 9530 µL/kg (Rabbit) | |
| TITANIUM DIOXIDE (TOTAL DUST) | 10000 mg/kg (Rat) | | |
| 2,2,4-TRIMETHYL-1,3-PENTANEDIOL MONOISOBUTYRATE | 3200 mg/kg (Rat) | 15200 mg/kg (Rat) | |
| NONIONIC SURFACTANT | 4190 mg/kg (Rat) | | |
| CRYSTALLINE SILICA (QUARTZ) | 500 mg/kg (Rat) | | |

| | |
|----------------------|--------------------------|
| Irritation | No information available |
| Corrosivity | No information available |
| Sensitization | No information available |

Chronic Toxicity

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen

| Component | ACGIH | IARC | NTP | OSHA | Mexico |
|-------------------------------|-------|----------|-------|------|--------|
| TITANIUM DIOXIDE (TOTAL DUST) | | Group 2B | | X | |
| CRYSTALLINE SILICA (QUARTZ) | A2 | Group 1 | Known | X | |

| | |
|--|---|
| Mutagenic Effects | No information available |
| Reproductive Effects | No information available |
| Developmental Effects | No information available |
| Teratogenicity | No information available |
| Target Organ Effects | Central nervous system, Central Vascular System, Eyes, Lungs, Respiratory system, Skin. |
| Endocrine Disruptor Information | No information available |

| Component | EU - Endocrine Disruptors Candidate List | EU - Endocrine Disruptors - Evaluated Substances | Japan - Endocrine Disruptor Information |
|---------------------|--|--|---|
| NONIONIC SURFACTANT | Group III Chemical | | |

12. ECOLOGICAL INFORMATION

Ecotoxicity

| Component | Freshwater Algae | Freshwater Fish | Microtox | Water Flea |
|---|----------------------------|---|--|------------------------|
| TALC (RESPIRABLE DUST) | | LC50> 100 g/L Brachydanio rerio 96 h | | |
| ETHYLENE GLYCOL | EC50 1300 - 6500 mg/L 96 h | LC50= 41000 mg/L Oncorhynchus mykiss 96 h LC50= 27500 mg/L Lepomis macrochirus 96 h LC50= 40761 mg/L Oncorhynchus mykiss 96 h LC50= 49000 mg/L Pimephales promelas 96 h LC50= 16000 mg/L Poecilia reticulata 96 h | EC50 = 620.0 mg/L 30 min EC50 = 620 mg/L 30 min EC50 = 10000 mg/L 16 h | EC50 = 46300 mg/L 48 h |
| 2,2,4-TRIMETHYL-1,3-PENTANEDIOL MONOISOBUTYRATE | EC50 = 18.4 mg/L 72 h | LC50= 30 mg/L Pimephales promelas 96 h | | EC50 > 0.1 mg/L 48 h |

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods Keep container tightly closed. If spilled, contain spilled material and remove with inert absorbent. Dispose of contaminated absorbent, container and unused contents in accordance with local, state and federal regulations.

Contaminated Packaging Empty containers should be taken for local recycling, recovery or waste disposal

14. TRANSPORT INFORMATION

DOT Ground Transportation Only. Call TNEMEC Traffic Department - 816-474-3400 for other modes of Transportation.
Proper Shipping Name PAINT, WATER BASE FREEZABLE

15. REGULATORY INFORMATION

International Inventories

TSCA Complies
DSL/NDL Does not Comply
EINECS/ELINCS Does not Comply
CHINA Does not Comply
ENCS Does not Comply
KECL Does not Comply
PICCS Does not Comply
AICS Does not Comply

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following HAPs:

Component
 ETHYLENE GLYCOL

U.S. Federal Regulations

SARA 313

| Component | CAS-No | Weight % | SARA 313 - Threshold Values |
|-----------------|----------|----------|-----------------------------|
| ETHYLENE GLYCOL | 107-21-1 | 4.066 | 1.0 |

SARA 311/312 Hazardous Categorization

Chronic Health Hazard No
Acute Health Hazard Yes
Fire Hazard Yes
Sudden Release of Pressure Hazard No
Reactive Hazard No

CERCLA

| Component | Hazardous Substances RQs | CERCLA EHS RQs |
|-----------------|--------------------------|----------------|
| ETHYLENE GLYCOL | 5000 lb | |

U.S. State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

| Component | CAS-No | California Prop. 65 |
|-----------------------------|------------|---------------------|
| CRYSTALLINE SILICA (QUARTZ) | 14808-60-7 | Carcinogen |

State Right-to-Know

| Component | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|--------------------------------|---------------|------------|--------------|----------|--------------|
| ALUMINUM SILICATE (TOTAL DUST) | X | X | X | | X |
| TALC (RESPIRABLE DUST) | X | X | X | | X |
| ETHYLENE GLYCOL | X | X | X | X | X |
| TITANIUM DIOXIDE (TOTAL DUST) | X | X | X | | X |
| CRYSTALLINE SILICA (QUARTZ) | X | X | X | | X |

Other International Regulations

Canada

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

WHMIS Hazard Class

D2B Toxic materials



| Component | NPRI |
|---------------------|---------------------------|
| ETHYLENE GLYCOL | Part 1, Group 1 Substance |
| NONIONIC SURFACTANT | Part 1, Group 1 Substance |

Legend

NPRI - National Pollutant Release Inventory

16. OTHER INFORMATION

Revision Date: 29-Dec-2009

Revision Summary: No information available

HMIS Health 0 Flammability 0 Reactivity 1

Disclaimer

For specific information regarding occupational safety and health standards, please refer to the Code of Federal Regulations, Title 29, Part 1910.

To the best of our knowledge, the information contained herein is accurate. However, neither the Tnemec Company or any of its subsidiaries assume any liability whatsoever for the accuracy of completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.

End of MSDS



Material Safety Data Sheet

Preparation Date: 30-Dec-2009

Revision Date: 29-Dec-2009

Revision Number: 0

1. PRODUCT AND COMPANY IDENTIFICATION

Product Code F130-6602B
Trade Name ENVIROFILL OFF WHITE PART B
Contact Manufacturer Tnemec Company, Inc. 6800 Corporate Drive, Kansas City, MO 64120-1372
Emergency Telephone Number 800-535-5053 (INFOTRAC) - TNE MEC REGULATORY DEPT: 816-474-3400

2. HAZARDS IDENTIFICATION

Emergency Overview

WARNING!

MAY CAUSE EYE INJURY.
HARMFUL BY INHALATION.
MAY CAUSE EYE, SKIN, NOSE, THROAT AND RESPIRATORY TRACT IRRITATION.

Potential Health Effects

Principle Routes of Exposure Eye contact, Inhalation, Skin contact.

Acute Effects

Eyes May cause eye injury. Exposure of sufficient duration to wet cement, or to dry cement on moist areas of the body, can cause serious, potentially irreversible tissue (skin, eye, respiratory tract) damage due to chemical (caustic) burns, including third degree burns. Irritating to skin. Exposure of sufficient duration to wet cement, or to dry cement on moist areas of the body, can cause serious, potentially irreversible tissue (skin, eye, respiratory tract) damage due to chemical (caustic) burns, including third degree burns.

Skin Irritating to skin. Exposure of sufficient duration to wet cement, or to dry cement on moist areas of the body, can cause serious, potentially irreversible tissue (skin, eye, respiratory tract) damage due to chemical (caustic) burns, including third degree burns.

Inhalation Irritating to respiratory system. Exposure of sufficient duration to wet cement, or to dry cement on moist areas of the body, can cause serious, potentially irreversible tissue (skin, eye, respiratory tract) damage due to chemical (caustic) burns, including third degree burns.

Ingestion May be harmful if swallowed.

Chronic Effects

Avoid repeated exposure

See Section 11 for additional Toxicological information.

Aggravated Medical Conditions Skin disorders.

Interactions with Other Chemicals No information available.

Potential Environmental Effects See Section 12 for additional Ecological information

Target Organ Effects Eyes, Respiratory system, Skin

3. COMPOSITION/INFORMATION ON INGREDIENTS

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components

| Component | CAS-No | Weight % |
|----------------------------------|------------|----------|
| CALCIUM SILICATES AND ALUMINATES | 65997-15-1 | 60 - 100 |

4. FIRST AID MEASURES

| | |
|---------------------|--|
| Eye Contact | Rinse thoroughly with plenty of water for at least 15 minutes. |
| Skin Contact | Wash off immediately with soap and plenty of water. |
| Ingestion | If swallowed, do not induce vomiting. Get medical attention immediately. |
| Inhalation | Move to fresh air. Oxygen or artificial respiration if needed. |

5. FIRE-FIGHTING MEASURES

| | |
|---|---|
| Flammable Properties | No information available. |
| Suitable Extinguishing Media | Foam, carbon dioxide, and dry chemical. |
| Hazardous Decomposition Products | No information available |

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapours. In the event of fire and/or explosion do not breathe fumes.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

| | |
|----------------------------------|---|
| Personal Precautions | Avoid contact with skin, eyes and clothing. Use personal protective equipment. Remove all sources of ignition. |
| Environmental Precautions | Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. |
| Methods for Cleaning Up | Shovel or sweep up. |
| Other Information | Not applicable |

7. HANDLING AND STORAGE

Handling

Close container after each use. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Tightly fitting safety goggles. Wear protective gloves/clothing. When used in a mixture, read the labels and safety data sheets of all components. Wash thoroughly after handling.

Storage

Keep away from heat, sparks and flame. Keep container tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

| Component | ACGIH TLV | OSHA PEL | Quebec TWAEV | Ontario TWAEV | Mexico OEL (TWA) |
|-----------|-----------|----------|--------------|---------------|------------------|
| | | | | | |

| | | | | | |
|----------------------------------|---------------------------|--|--|---------------------------|--|
| CALCIUM SILICATES AND ALUMINATES | TWA: 10 mg/m ³ | TWA: 10 mg/m ³ TWA: 5 mg/m ³ TWA: 15 mg/m ³ | TWA: 10 mg/m ³ TWA: 5 mg/m ³ | TWA: 10 mg/m ³ | TWA: 10 mg/m ³ STEL: 20 mg/m ³ |
|----------------------------------|---------------------------|--|--|---------------------------|--|

Engineering Measures

Ensure adequate ventilation, especially in confined areas

Personal Protective Equipment

Skin Protection

Lightweight protective clothing, Apron, Impervious gloves

Eye/face Protection

Tightly fitting safety goggles

Respiratory Protection

Use only with adequate ventilation. Do not breathe dust, vapors or spray mist. Ensure fresh air entry during application and drying. If you experience eye watering, headache or dizziness or if air monitoring demonstrates vapor/mist levels are above applicable limits, wear an appropriate, properly fitted respirator (NIOSH approved) during and after application. Follow respirator manufacturer's directions for respirator use.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice. Avoid breathing dust created by cutting, sanding, or grinding.

9. PHYSICAL AND CHEMICAL PROPERTIES

Flash Point

Not applicable

Method

Pensky Martens - Closed Cup

Boiling Point/Range

No information available

Upper Exposure Limits

No information available

Lower Exposure Limits

No information available

Evaporation Rate

No information available

Vapour Pressure

No information available

Vapour Density

No information available

Specific Gravity

3.16289

Density

26.31995

VOC Content (lbs/gal)

.000

% Volatile by Weight

.0000

% Volatile by Volume

.0000

10. STABILITY AND REACTIVITY

Chemical stability

Stable.

Conditions to Avoid

Heat, flames and sparks

Incompatible Products

Acids.

Possibility of Hazardous Reactions

None under normal processing

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Component Information

Irritation

No information available

Corrosivity

No information available

Sensitization

No information available

Chronic Toxicity

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen

Mutagenic Effects

No information available

Reproductive Effects

No information available

11. TOXICOLOGICAL INFORMATION

| | |
|--|---------------------------------|
| Developmental Effects | No information available |
| Teratogenicity | No information available |
| Target Organ Effects | Eyes, Respiratory system, Skin. |
| Endocrine Disruptor Information | No information available |

12. ECOLOGICAL INFORMATION

(Bad file name or number)

Ecotoxicity

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods Keep container tightly closed. If spilled, contain spilled material and remove with inert absorbent. Dispose of contaminated absorbent, container and unused contents in accordance with local, state and federal regulations.

Contaminated Packaging Empty containers should be taken for local recycling, recovery or waste disposal

14. TRANSPORT INFORMATION

DOT Ground Transportation Only. Call TNEMEC Traffic Department - 816-474-3400 for other modes of Transportation.
Proper Shipping Name CEMENT,PORTLAND(ITEM 42130

15. REGULATORY INFORMATION

International Inventories

| | |
|---------------|-----------------|
| TSCA | Complies |
| DSL/NDSL | Complies |
| EINECS/ELINCS | Complies |
| CHINA | Complies |
| ENCS | Does not Comply |
| KECL | Complies |
| PICCS | Does not Comply |
| AICS | Complies |

U.S. Federal Regulations

SARA 313

SARA 311/312 Hazardous Categorization

| | |
|-----------------------------------|-----|
| Chronic Health Hazard | No |
| Acute Health Hazard | Yes |
| Fire Hazard | Yes |
| Sudden Release of Pressure Hazard | No |
| Reactive Hazard | No |

CERCLA

U.S. State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

State Right-to-Know

| Component | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|----------------------------------|---------------|------------|--------------|----------|--------------|
| CALCIUM SILICATES AND ALUMINATES | X | X | X | | X |

Other International Regulations

Canada

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

WHMIS Hazard Class

E Corrosive material



Legend

NPRI - National Pollutant Release Inventory

16. OTHER INFORMATION

Revision Date: 29-Dec-2009

Revision Summary: No information available

HMIS Health 1 Flammability 1 Reactivity 1

Disclaimer

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End of MSDS