



# Material Safety Data Sheet

Print Date 02-May-2011

Revision Date 02-May-2011

Revision Number 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

|                            |   |
|----------------------------|---|
| <b>Common name</b>         | SERIES 88HS   |
| <b>Product code</b>        | 88HS-0555   |
| <b>Trade name</b>          | AZERON HS PRIMER RED  |
| <b>Product Class</b>       | ALKYD PAINT   |
| <b>Manufacturer</b>        | Tnemec Company, Inc. 6800 Corporate Drive, Kansas City, MO 64120-1372 |
| <b>Emergency telephone</b> | 800-535-5053 (INFOTRAC) - TNE MEC REGULATORY DEPT: 816-474-3400       |

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

#### WARNING!

FLAMMABLE LIQUID AND VAPOR.  
HARMFUL IF INHALED.  
HARMFUL OR FATAL IF SWALLOWED.  
MAY AFFECT THE BRAIN OR NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA.  
MAY CAUSE EYE, SKIN, NOSE, THROAT AND RESPIRATORY TRACT IRRITATION.  
MAY BE HARMFUL IF ABSORBED THROUGH SKIN.

#### Potential health effects

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

#### Acute effects

|                   |   |
|-------------------|---|
| <b>Eyes</b>       | Moderately irritating to the eyes.  |
| <b>Skin</b>       | Irritating to skin.   |
| <b>Inhalation</b> | Irritating to respiratory system. Blood disorder may occur after prolonged inhalation.<br>Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. |
| <b>Ingestion</b>  | May be harmful if swallowed. Blood disorder may occur after ingestion.  |

#### 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. Gastrointestinal tract. Kidney disorders. Liver disorders. Skin disorders. Respiratory disorders.

**Interactive effects** Use of alcoholic beverages may enhance toxic effects.

**Potential environmental effects** See Section 12 for additional Ecological Information

**Target Organ Effects** Blood, Central nervous system, Central Vascular System (CVS), Gastrointestinal tract, Eyes, Kidney, Liver, Lungs, Respiratory system, Skin

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous Components

| Component                      | CAS-No     | Weight % |
|--------------------------------|------------|----------|
| CALCIUM CARBONATE              | 471-34-1   | 10 - 30  |
| SILICON DIOXIDE/ALUMINUM OXIDE | 66402-68-4 | 10 - 30  |
| BARIUM SULFATE (TOTAL DUST)    | 7727-43-7  | 10 - 30  |
| XYLENE                         | 1330-20-7  | 5 - 10   |
| AROMATIC HYDROCARBON RESIN     | 64742-16-1 | 5 - 10   |
| TALC (RESPIRABLE DUST)         | 14807-96-6 | 5 - 10   |
| IRON OXIDE FUME                | 1309-37-1  | 5 - 10   |
| ISOPROPANOL                    | 67-63-0    | 1 - 5    |
| CRYSTALLINE SILICA (QUARTZ)    | 14808-60-7 | 1 - 5    |
| ETHYL BENZENE                  | 100-41-4   | 1 - 5    |
| AROMATIC HYDROCARBON MIXTURE   | 64742-95-6 | 1 - 5    |
| ACETONE                        | 67-64-1    | 1 - 5    |
| 1,2,4-TRIMETHYLBENZENE         | 95-63-6    | 1 - 5    |
| VM&P NAPHTHA                   | 8032-32-4  | 1 - 5    |
| DIBUTYL PHTHALATE              | 84-74-2    | 0.1 - 1  |
| 1,3,5-TRIMETHYLBENZENE         | 108-67-8   | 0.1 - 1  |
| ALUMINUM OXIDES                | 1344-28-1  | 0.1 - 1  |

### 4. FIRST AID MEASURES

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

### 5. FIRE-FIGHTING MEASURES

|   |   |
|---|---|
| <b>Flammable properties</b>             | Flammable liquid.   |
| <b>Suitable extinguishing media</b>     | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Contact with water may cause violent frothing. Use: Carbon dioxide (CO <sub>2</sub> ) - Foam - Dry chemical |
| <b>Hazardous decomposition products</b> | Oxides of carbon, hydrocarbons.   |

#### Specific hazards arising from the chemical

DANGER - CERTAIN COLORS CONTAIN LINSEED OIL. RAGS AND OTHER COMBUSTIBLE ITEMS SOILED WITH LINSEED OIL REPRESENT A SPONTANEOUS COMBUSTION HAZARD. TO AVOID SPONTANEOUS COMBUSTION, SOAK SOILED RAGS AND WASTE IMMEDIATELY AFTER USE IN A WATER-FILLED, CLOSED METAL CONTAINER.

#### 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. Solvent vapors are heavier than air and may spread along floors. Flash back possible over considerable distance.

## 6. ACCIDENTAL RELEASE MEASURES

|                                  |   |
|----------------------------------|---|
| <b>Personal precautions</b>      | Avoid contact with skin, eyes and clothing. Use personal protective equipment. Remove all sources of ignition.  |
| <b>Environmental precautions</b> | Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.   |
| <b>Methods for cleaning up</b>   | 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. |
| <b>Other information</b>         | 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. If splashes are likely to occur, wear goggles. Wear protective gloves/clothing. Do not burn, or use a cutting torch on, the empty drum. 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. VAPORS MAY CAUSE FLASH FIRE. Use only in an area containing flame proof equipment. Extinguish all flames and pilot lights, and turn off stoves, heaters, electric motors and other sources of ignition during use and until all vapors are gone. 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)  |
|--------------------------------|---|---|--|---|---|
| CALCIUM CARBONATE              |   |   | TWA: 10 mg/m <sup>3</sup><br>TWAEV (total dust)<br>TWA: 10 mg/m <sup>3</sup><br>TWAEV (Limestone, total dust, containing no asbestos and less than 1% crystalline silica)  | TWA: 10 mg/m <sup>3</sup>   | TWA: 10 mg/m <sup>3</sup> STEL: 20 mg/m <sup>3</sup>  |
| SILICON DIOXIDE/ALUMINUM OXIDE | : 5 mg/m <sup>3</sup> TWA (as Zr) : 0.2 mg/m <sup>3</sup> TWA (as Mn) |   | TWA: 5 mg/m <sup>3</sup> TWAEV (as Zr) STEL: 10 mg/m <sup>3</sup> STEV (as Zr)   | TWA: 5 mg/m <sup>3</sup> TWA (as Zr) TWA: 0.5 fibre/cm <sup>3</sup> TWA (length>5 microns, aspect ratio>= 3.1, respirable) TWA: 0.2 mg/m <sup>3</sup> TWA (as Mn) STEL: 10 mg/m <sup>3</sup> STEL (as Zr) | : 5 mg/m <sup>3</sup> TWA (as Zr) : 0.2 mg/m <sup>3</sup> TWA (as Mn) : 10 mg/m <sup>3</sup> STEL (as Zr) |
| BARIUM SULFATE (TOTAL DUST)    | : 10 mg/m <sup>3</sup> TWA : 0.5 mg/m <sup>3</sup> TWA (as Ba)        | : 10 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup> TWA (respirable fraction) : 15 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup> TWA (respirable fraction) | TWA: 10 ppm TWAEV (total dust, containing no asbestos and less than 1% crystalline silica); 5 ppm TWAEV (respirable dust, containing no asbestos and less than 1% crystalline silica) TWA: 0.5 mg/m <sup>3</sup> TWAEV (as Ba) | TWA: 10 mg/m <sup>3</sup> TWA (total dust) TWA: 0.5 mg/m <sup>3</sup> TWA (as Ba)   | TWA: 0.5 mg/m <sup>3</sup>  |
| XYLENE                         | : 100 ppm TWA : 150 ppm STEL  | : 100 ppm TWA; 435 mg/m <sup>3</sup> TWA : 150 ppm STEL; 655 mg/m <sup>3</sup> STEL   | TWA: 100 ppm TWAEV; 434 mg/m <sup>3</sup> TWAEV STEL: 150 ppm STEV; 651 mg/m <sup>3</sup> STEV   | TWA: 100 ppm TWA STEL: 150 ppm STEL   | : 100 ppm TWA; 435 mg/m <sup>3</sup> TWA : 150 ppm STEL; 655 mg/m <sup>3</sup> STEL                       |

|                             |   |  |   |  |   |
|-----------------------------|---|--|---|--|---|
| TALC (RESPIRABLE DUST)      | : 2 mg/m <sup>3</sup> TWA (particulate matter containing no asbestos and <1% crystalline silica, respirable fraction) | : 2 mg/m <sup>3</sup> TWA (<1% Crystalline silica, containing no Asbestos, respirable dust)  | TWA: 3 mg/m <sup>3</sup> TWAEV (respirable dust)  | TWA: 2 mg/m <sup>3</sup> TWA (containing no Asbestos and <1% Crystalline silica, respirable) | : 2 mg/m <sup>3</sup> TWA (respirable fraction)   |
| IRON OXIDE FUME             | : 5 mg/m <sup>3</sup> TWA (respirable fraction)   | : 10 mg/m <sup>3</sup> TWA (fume)  | TWA: 5 mg/m <sup>3</sup> TWAEV (dust and fume, as Fe)   | TWA: 5 mg/m <sup>3</sup> TWA (respirable)  | : 5 mg/m <sup>3</sup> TWA : 10 mg/m <sup>3</sup> STEL (as Fe)                           |
| ISOPROPANOL                 | : 200 ppm TWA : 400 ppm STEL  | : 400 ppm TWA; 980 mg/m <sup>3</sup> TWA : 500 ppm STEL; 1225 mg/m <sup>3</sup> STEL   | TWA: 400 ppm TWAEV; 985 mg/m <sup>3</sup> TWAEV STEL: 500 ppm STEV; 1230 mg/m <sup>3</sup> STEV                 | TWA: 200 ppm TWA STEL: 400 ppm STEL  | : 400 ppm TWA; 980 mg/m <sup>3</sup> TWA : 500 ppm STEL; 1225 mg/m <sup>3</sup> STEL    |
| CRYSTALLINE SILICA (QUARTZ) | : 0.025 mg/m <sup>3</sup> TWA (respirable fraction)   | : 0.1 mg/m <sup>3</sup> TWA (respirable dust)  | TWA: 0.1 mg/m <sup>3</sup> TWAEV (respirable dust)  | TWA: 0.10 mg/m <sup>3</sup> TWA (designated substance regulation, respirable)                | : 0.1 mg/m <sup>3</sup> TWA (respirable fraction)                                       |
| ETHYL BENZENE               | : 100 ppm TWA : 125 ppm STEL  | : 100 ppm TWA; 435 mg/m <sup>3</sup> TWA : 125 ppm STEL; 545 mg/m <sup>3</sup> STEL  | TWA: 100 ppm TWAEV; 434 mg/m <sup>3</sup> TWAEV STEL: 125 ppm STEV; 543 mg/m <sup>3</sup> STEV                  | TWA: 100 ppm TWA STEL: 125 ppm STEL  | : 100 ppm TWA; 435 mg/m <sup>3</sup> TWA : 125 ppm STEL; 545 mg/m <sup>3</sup> STEL     |
| ACETONE                     | : 500 ppm TWA : 750 ppm STEL  | : 750 ppm TWA; 1800 mg/m <sup>3</sup> TWA : 2400 mg/m <sup>3</sup> STEL (The acetone STEL does not apply to the cellulose acetate fiber industry. It is in effect for all other sectors); 1000 ppm STEL : 1000 ppm TWA; 2400 mg/m <sup>3</sup> TWA | TWA: 500 ppm TWAEV; 1190 mg/m <sup>3</sup> TWAEV STEL: 1000 ppm STEV; 2380 mg/m <sup>3</sup> STEV               | TWA: 500 ppm TWA STEL: 750 ppm STEL  | : 1000 ppm TWA; 2400 mg/m <sup>3</sup> TWA : 1260 ppm STEL; 3000 mg/m <sup>3</sup> STEL |
| 1,2,4-TRIMETHYLBENZENE      | TWA: 25 ppm   |  | TWA: 25 ppm TWA: 123 mg/m <sup>3</sup>  | TWA: 25 ppm TWA: 123 mg/m <sup>3</sup>   | TWA: 125 mg/m <sup>3</sup> TWA: 25 ppm STEL: 170 mg/m <sup>3</sup> STEL: 35 ppm         |
| VM&P NAPHTHA                | TWA: 300 ppm  | : 300 ppm TWA; 1350 mg/m <sup>3</sup> TWA : 400 ppm STEL; 1800 mg/m <sup>3</sup> STEL  | TWA: 300 ppm TWAEV; 1370 mg/m <sup>3</sup> TWAEV  | TWA: 1350 mg/m <sup>3</sup>  | : 300 ppm TWA; 1350 mg/m <sup>3</sup> TWA : 400 ppm STEL; 1800 mg/m <sup>3</sup> STEL   |
| DIBUTYL PHTHALATE           | : 5 mg/m <sup>3</sup> TWA   | : 5 mg/m <sup>3</sup> TWA  | TWA: 5 mg/m <sup>3</sup> TWAEV  | TWA: 5 mg/m <sup>3</sup> TWA   | : 5 mg/m <sup>3</sup> TWA : 10 mg/m <sup>3</sup> STEL                                   |
| 1,3,5-TRIMETHYLBENZENE      | TWA: 25 ppm   |  | TWA: 25 ppm TWA: 123 mg/m <sup>3</sup>  | TWA: 25 ppm TWA: 123 mg/m <sup>3</sup>   | TWA: 125 mg/m <sup>3</sup> TWA: 25 ppm STEL: 170 mg/m <sup>3</sup> STEL: 35 ppm         |
| ALUMINUM OXIDES             | TWA: 1 mg/m <sup>3</sup>  | : 10 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup> TWA (respirable fraction) : 15 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup> TWA (respirable fraction)  | TWA: 10 mg/m <sup>3</sup> TWAEV (total dust, containing no asbestos and less than 1% crystalline silica, as Al) | TWA: 10 mg/m <sup>3</sup>  | : 10 mg/m <sup>3</sup> TWA  |

**Engineering measures**

Ensure adequate ventilation, especially in confined areas

**Personal Protective Equipment****Skin protection**

Lightweight protective clothing, Apron, Impervious gloves

**Eye/face protection**

Goggles. If splashes are likely to occur, wear face-shield.

**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                              | 19°C / 67.0°F                |
| Boiling range                            | 82 - 202°C / 180.0 - 395.0°F |
| Upper explosion limit                    | No information available     |
| Lower explosion limit                    | No information available     |
| Evaporation rate                         | No information available     |
| Vapor pressure                           | No information available     |
| Vapor density                            | No information available     |
| Specific Gravity                         | 1.61152 g/cm <sup>3</sup>    |
| Density                                  | 13.41025 lbs/gal             |
| Volatile organic compounds (VOC) content | 2.691 lbs/gal                |
| Volatile by weight                       | 20.9440 %                    |
| Volatile by volume                       | 39.9504 %                    |

## 10. STABILITY AND REACTIVITY

|                              |   |   |                              |
|------------------------------|---|---|------------------------------|
| <b>Chemical stability</b>    | Stable.   | <b>Conditions to avoid</b>                | Heat, flames and sparks.     |
| <b>Incompatible products</b> | Strong oxidizing agents. Bases. Acids. Alkalines. Amines. | <b>Possibility of hazardous reactions</b> | None under normal processing |

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

#### Component Information

| Component                    | LD50 Oral           | LD50 Dermal                                | LC50 Inhalation                             |
|------------------------------|---------------------|--|---|
| CALCIUM CARBONATE            | 6450 mg/kg ( Rat )  |  |   |
| XYLENE                       | 4300 mg/kg ( Rat )  | 1700 mg/kg ( Rabbit )                      | 5000 ppm ( Rat ) 4 h 47635 mg/L ( Rat ) 4 h |
| IRON OXIDE FUME              | 10000 mg/kg ( Rat ) |  |   |
| ISOPROPANOL                  | 4396 mg/kg ( Rat )  | 12800 mg/kg ( Rat ) 12870 mg/kg ( Rabbit ) | 72.6 mg/L ( Rat ) 4 h                       |
| CRYSTALLINE SILICA (QUARTZ)  | 500 mg/kg ( Rat )   |  |   |
| ETHYL BENZENE                | 3500 mg/kg ( Rat )  | 15354 mg/kg ( Rabbit )                     | 17.2 mg/L ( Rat ) 4 h                       |
| AROMATIC HYDROCARBON MIXTURE | 8400 mg/kg ( Rat )  | 2000 mg/kg ( Rabbit )                      | 3400 ppm ( Rat ) 4 h 5.2 mg/L ( Rat ) 4 h   |
| ACETONE                      | 5800 mg/kg ( Rat )  |  |   |
| 1,2,4-TRIMETHYLBENZENE       | 3400 mg/kg ( Rat )  | 3160 mg/kg ( Rabbit )                      | 18 g/m <sup>3</sup> ( Rat ) 4 h             |
| VM&P NAPHTHA                 |                     |  | 3400 ppm ( Rat ) 4 h                        |
| DIBUTYL PHTHALATE            | 6300 mg/kg ( Rat )  | 2000 mg/kg ( Rabbit )                      | 15.68 mg/L ( Rat ) 4 h                      |
| 1,3,5-TRIMETHYLBENZENE       | 5000 mg/kg ( Rat )  |  | 24 g/m <sup>3</sup> ( Rat ) 4 h             |
| ALUMINUM OXIDES              | 5000 mg/kg ( Rat )  |  |   |

|                      |                          |
|----------------------|--------------------------|
| <b>Irritation</b>    | No information available |
| <b>Corrosivity</b>   | No information available |
| <b>Sensitization</b> | 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 |
|-----------------------------|-------|---------|-------|------|--------|
| ISOPROPANOL                 |       | Group 1 |       |      |        |
| CRYSTALLINE SILICA (QUARTZ) | A2    | Group 1 | Known | X    |        |

|               |    |          |  |   |    |
|---------------|----|----------|--|---|----|
| ETHYL BENZENE | A3 | Group 2B |  | X |    |
| VM&P NAPHTHA  |    |          |  |   | A3 |

|  |   |
|--|---|
| <b>Mutagenicity</b>                    | No information available  |
| <b>Reproductive effects</b>            | No information available  |
| <b>Developmental effects</b>           | No information available  |
| <b>Teratogenicity</b>                  | No information available  |
| <b>Target Organ Effects</b>            | Blood, Central nervous system, Central Vascular System (CVS), Gastrointestinal tract, Eyes, Kidney, Liver, Lungs, Respiratory system, Skin. |
| <b>Endocrine Disruptor Information</b> | No information available  |

| Component         | EU - Endocrine Disruptors Candidate List | EU - Endocrine Disruptors - Evaluated Substances | Japan - Endocrine Disruptor Information |
|-------------------|--|--|---|
| DIBUTYL PHTHALATE | Group III Chemical Group I Chemical      | High Exposure Concern                            |   |

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

| Component                    | Toxicity to algae  | Toxicity to fish  | Toxicity to microorganisms                  | Toxicity to daphnia                        |
|------------------------------|--|---|---|--|
| XYLENE                       |  | LC50= 13.4 mg/L Pimephales promelas 96 h LC50 2.661-4.093 mg/L Oncorhynchus mykiss 96 h LC50 13.5-17.3 mg/L Oncorhynchus mykiss 96 h LC50 13.1-16.5 mg/L Lepomis macrochirus 96 h LC50= 19 mg/L Lepomis macrochirus 96 h LC50 7.711-9.591 mg/L Lepomis macrochirus 96 h LC50 23.53-29.97 mg/L Pimephales promelas 96 h LC50= 780 mg/L Cyprinus carpio 96 h LC50> 780 mg/L Cyprinus carpio 96 h LC50 30.26-40.75 mg/L Poecilia reticulata 96 h | EC50 = 0.0084 mg/L 24 h                     | EC50 = 3.82 mg/L 48 h LC50 = 0.6 mg/L 48 h |
| TALC (RESPIRABLE DUST)       |  | LC50> 100 g/L Brachydanio rerio 96 h  |   |  |
| ISOPROPANOL                  | EC50 > 1000 mg/L 96 h EC50 > 1000 mg/L 72 h  | LC50= 11130 mg/L Pimephales promelas 96 h LC50= 9640 mg/L Pimephales promelas 96 h LC50> 1400000 µg/L Lepomis macrochirus 96 h  | EC50 = 35390 mg/L 5 min                     | EC50 = 13299 mg/L 48 h                     |
| ETHYL BENZENE                | EC50 = 4.6 mg/L 72 h EC50 > 438 mg/L 96 h EC50 2.6 - 11.3 mg/L 72 h EC50 1.7 - 7.6 mg/L 96 h | LC50 11.0-18.0 mg/L Oncorhynchus mykiss 96 h LC50= 4.2 mg/L Oncorhynchus mykiss 96 h LC50 7.55-11 mg/L Pimephales promelas 96 h LC50= 32 mg/L Lepomis macrochirus 96 h LC50 9.1-15.6 mg/L Pimephales promelas 96 h LC50= 9.6 mg/L Poecilia reticulata 96 h  | EC50 = 9.68 mg/L 30 min EC50 = 96 mg/L 24 h | EC50 1.8 - 2.4 mg/L 48 h                   |
| AROMATIC HYDROCARBON MIXTURE |  | LC50= 9.22 mg/L Oncorhynchus mykiss 96 h  |   | EC50 = 6.14 mg/L 48 h                      |

| Component              | Toxicity to algae                            | Toxicity to fish   | Toxicity to microorganisms   | Toxicity to daphnia   |
|------------------------|--|--|--|---|
| ACETONE                |  | LC50 4.74 - 6.33 mL/L<br>Oncorhynchus mykiss 96 h<br>LC50 6210 - 8120 mg/L<br>Pimephales promelas 96 h<br>LC50= 8300 mg/L Lepomis<br>macrochirus 96 h  | EC50 = 14500 mg/L 15 min   | EC50 10294 - 17704 mg/L 48<br>h EC50 12600 - 12700 mg/L<br>48 h |
| 1,2,4-TRIMETHYLBENZENE |  | LC50 7.19-8.28 mg/L<br>Pimephales promelas 96 h<br>LC50= 7.72 mg/L Pimephales<br>promelas 96 h   |  | EC50 = 6.14 mg/L 48 h   |
| VM&P NAPHTHA           | EC50 = 4700 mg/L 72 h                        |  |  |   |
| DIBUTYL PHTHALATE      | EC50 = 1.2 mg/L 72 h EC50 =<br>0.4 mg/L 96 h | LC50 0.31-5.45 mg/L<br>Pimephales promelas 96 h<br>LC50 0.42-1.28 mg/L Lepomis<br>macrochirus 96 h LC50 0.71-<br>1.2 mg/L Pimephales promelas<br>96 h LC50 1.24-5.3 mg/L<br>Oncorhynchus mykiss 96 h<br>LC50 1.38-1.74 mg/L Lepomis<br>macrochirus 96 h LC50> 1.24<br>mg/L Oncorhynchus mykiss 96<br>h | EC50 = 10.9 mg/L 5 min EC50<br>= 11.1 mg/L 15 min EC50 =<br>10.9 mg/L 30 min EC50 = 2.2<br>mg/L 24 h | EC50 = 2.99 mg/L 48 h EC50<br>= 3.4 mg/L 48 h                   |
| 1,3,5-TRIMETHYLBENZENE |  | LC50= 3.48 mg/L Pimephales<br>promelas 96 h LC50= 7.72<br>mg/L Pimephales promelas 96<br>h   |  | EC50 = 50 mg/L 24 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

UN1263, PAINT, 3, PGIII, ERG 128

### 15. REGULATORY INFORMATION

#### International Inventories

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

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

Component  
XYLENE  
ETHYL BENZENE  
DIBUTYL PHTHALATE

**United States of America Federal Regulations****SARA 313**

| Component                      | CAS-No     | Weight % | SARA 313 - Threshold Values   |
|--------------------------------|------------|----------|---|
| SILICON DIOXIDE/ALUMINUM OXIDE | 66402-68-4 | 10 - 30  | 1.0 % de minimis concentration (does not include Barium sulfate CAS 7727-43-7, Chemical Category N040)<br>1.0 % de minimis concentration (Chemical Category N982) |
| BARIUM SULFATE (TOTAL DUST)    | 7727-43-7  | 10 - 30  | 1.0   |
| XYLENE                         | 1330-20-7  | 5 - 10   | 1.0 % de minimis concentration  |
| ISOPROPANOL                    | 67-63-0    | 1 - 5    | 1.0 % de minimis concentration (only if manufactured by the strong acid process, no supplier notification)  |
| ETHYL BENZENE                  | 100-41-4   | 1 - 5    | 0.1 % de minimis concentration  |
| 1,2,4-TRIMETHYLBENZENE         | 95-63-6    | 1 - 5    | 1.0 % de minimis concentration  |
| DIBUTYL PHTHALATE              | 84-74-2    | 0.1 - 1  | 1.0 % de minimis concentration  |
| ALUMINUM OXIDES                | 1344-28-1  | 0.1 - 1  | 1.0 % de minimis concentration (fibrous forms)  |

**SARA 311/312 Hazardous Categorization**

|                                   |     |
|-----------------------------------|-----|
| Chronic Health Hazard             | yes |
| Acute Health Hazard               | yes |
| Fire Hazard                       | yes |
| Sudden Release of Pressure Hazard | no  |
| Reactive Hazard                   | no  |

| Component                      | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|--------------------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| SILICON DIOXIDE/ALUMINUM OXIDE |                             | X                      |                           |                            |
| XYLENE                         | 100 lb RQ                   |                        |                           | X                          |
| ETHYL BENZENE                  | 1000 lb RQ                  | X                      | X                         | X                          |
| DIBUTYL PHTHALATE              | 10 lb RQ                    | X                      | X                         | X                          |

**CERCLA****United States of America State Regulations****California Prop. 65**

This product contains the following Proposition 65 chemicals:

| Component                   | CAS-No     | California Prop. 65                                 |
|-----------------------------|------------|---|
| CRYSTALLINE SILICA (QUARTZ) | 14808-60-7 | Carcinogen  |
| ETHYL BENZENE               | 100-41-4   | Carcinogen  |
| DIBUTYL PHTHALATE           | 84-74-2    | Developmental Female Reproductive Male Reproductive |

**State Right-to-Know**

| Component                         | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|-----------------------------------|---------------|------------|--------------|----------|--------------|
| CALCIUM CARBONATE                 | X             | X          | X            |          | X            |
| SILICON<br>DIOXIDE/ALUMINUM OXIDE |               | X          | X            |          | X            |
| BARIUM SULFATE (TOTAL<br>DUST)    | X             | X          | X            |          | X            |
| XYLENE                            | X             | X          | X            | X        | X            |
| TALC (RESPIRABLE DUST)            | X             | X          | X            |          | X            |
| IRON OXIDE FUME                   | X             | X          | X            |          | X            |
| ISOPROPANOL                       | X             | X          | X            |          | X            |
| CRYSTALLINE SILICA<br>(QUARTZ)    | X             | X          | X            |          | X            |
| ETHYL BENZENE                     | X             | X          | X            | X        | X            |
| ACETONE                           | X             | X          | X            |          | X            |
| 1,2,4-TRIMETHYLBENZENE            | X             | X          | X            | X        | X            |
| VM&P NAPHTHA                      |               | X          | X            |          |              |
| DIBUTYL PHTHALATE                 | X             | X          | X            | X        | X            |
| 1,3,5-TRIMETHYLBENZENE            | X             | X          | X            | X        | X            |
| ALUMINUM OXIDES                   | X             | X          | X            |          | X            |

**Other international regulations****Canada**

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

**WHMIS Classification**

B2 Flammable liquid  
D2A Very toxic materials



| Component                    | NPRI  |
|------------------------------|---|
| XYLENE                       | Part 1, Group 1 Substance; Part 5 Substance |
| ISOPROPANOL                  | Part 1, Group 1 Substance; Part 5 Substance |
| ETHYL BENZENE                | Part 1, Group 1 Substance                   |
| AROMATIC HYDROCARBON MIXTURE | Part 5 Substance                            |
| 1,2,4-TRIMETHYLBENZENE       | Part 1, Group 1 Substance; Part 5 Substance |
| VM&P NAPHTHA                 | Part 5 Substance                            |
| DIBUTYL PHTHALATE            | Part 1, Group 1 Substance                   |
| ALUMINUM OXIDES              | Part 1, Group 1 Substance (fibrous form)    |

**Legend**

NPRI - National Pollutant Release Inventory

|                              |
|------------------------------|
| <b>16. OTHER INFORMATION</b> |
|------------------------------|

Revision Date 02-May-2011

Revision Note No information available

HMIS (Hazardous Material Information System)      Health 2\*      Flammability 3      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**