1. IDENTIFICATION

Product identifier
Product Code  1528
Product Name  SERIES 1528 ENDURA-HEAT DTM-DF
Color  This safety data sheet covers all product color variations in accordance with 29 CFR 1910.1200(g)(4).

Other means of identification
Common Name  SERIES 1528
Synonyms  None

Recommended use of the chemical and restrictions on use
Recommended Use  industrial paint.
Uses advised against  Consumer use, For professional use only. Not for residential use.

Details of the supplier of the safety data sheet
Manufacturer Address  Tnemec Company, Inc. 6800 Corporate Drive, Kansas City, MO 64120-1372 816-474-3400
Distributor  Tnemec Company, Inc. 86 Boul, des Entreprises, Ste. 203, Boisbriand, Quebec Canada J7G 2T3
Emergency telephone number
Company Phone Number  Tnemec Regulatory Dept: 816-474-3400
24 Hour Emergency Phone Number  800-535-5053 (Infotrac)

2. HAZARDS IDENTIFICATION

Classification
OSHA Regulatory Status  This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

<table>
<thead>
<tr>
<th>Hazard</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin corrosion/irritation</td>
<td>2</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>2</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>2</td>
</tr>
<tr>
<td>Reproductive Toxicity</td>
<td>2</td>
</tr>
<tr>
<td>Flammable Liquids</td>
<td>3</td>
</tr>
</tbody>
</table>

Label elements

WARNING

Hazard statements
Causes skin irritation
Causes serious eye irritation
Suspected of causing cancer
Suspected of damaging fertility or the unborn child
Flammable liquid and vapor
Precautionary Statements

Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Wash face, hands and any exposed skin thoroughly after handling
Keep away from heat/sparks/open flames/hot surfaces. — No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Use explosion-proof electrical/ventilating/lighting/mixing/equipment

Response
IF exposed or concerned: Get medical advice/attention
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
If skin irritation occurs: Get medical advice/attention
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
In case of fire: Use CO2, dry chemical, or foam for extinction

Storage
Store locked up
Store in a well-ventilated place. Keep cool
Keep away from children

Disposal
Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Other information
May be harmful in contact with skin
Causes mild skin irritation
Toxic to aquatic life with long lasting effects
Cancer hazard. Contains crystalline silica which can cause cancer. (Risk of cancer depends on duration and level of exposure).
Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs
SEE SAFETY DATA SHEET
Acute Toxicity 80.1 % of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS No</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOLVENT NAPHTHA (PETROLEUM) HEAVY AROMATIC</td>
<td>64742-94-5</td>
<td>1 - &lt;10%</td>
</tr>
<tr>
<td>TRIMETHYLBENZENES</td>
<td>25551-13-7</td>
<td>1 - &lt;10%</td>
</tr>
<tr>
<td>PETROLEUM SOLVENT (NAPHTHA)</td>
<td>64742-95-6</td>
<td>1 - &lt;10%</td>
</tr>
<tr>
<td>MANGANESE FERRITE BLACK SPINEL</td>
<td>68186-94-7</td>
<td>0 - &lt;10%</td>
</tr>
<tr>
<td>ALUMINUM FLAKE</td>
<td>7429-90-5</td>
<td>0 - &lt;10%</td>
</tr>
</tbody>
</table>
1,2,4-TRIMETHYLBENZENE 95-63-6 1 - <10%
ZINC OXIDE (TOTAL DUST) 1314-13-2 1 - <10%
XYLENE 1330-20-7 1 - <10%
ETHYL BENZENE 100-41-4 0.1 - <1%
NAPHTHALENE 91-20-3 0 - <1%
CRUSTALLINE SILICA (QUARTZ) 14808-60-7 0.1 - <1%
CUMENE (SKIN) 98-82-8 0 - <1%

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

General advice
If symptoms persist, call a physician.

Eye contact
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

Skin contact
Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.

Inhalation
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Ingestion
If swallowed, do not induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.

Self-protection of the first aider
Use personal protective equipment. Avoid contact with eyes, skin and clothing.

Most important symptoms and effects, both acute and delayed

Notes to physician
Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media
Carbon dioxide. Foam. Dry chemical.

Unsuitable extinguishing media
Do not use a solid water stream as it may scatter and spread fire.

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.

Hazardous combustion products
Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide. Unidentified organic and inorganic compounds. Carbon oxides.

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, protective equipment and emergency procedures

Personal precautions
Use personal protective equipment. Avoid contact with eyes, skin and clothing. Ensure adequate ventilation. Remove all sources of ignition.
Environmental Precautions

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.

Methods and material for containment and cleaning up

Methods for containment

Remove all sources of ignition. Spills may be collected with inert, absorbent material for proper disposal. Use non-sparking tools, protective gloves, goggles and clothing, adequate ventilation, avoid the breathing of vapors and use respiratory protective devices. Transfer absorbent material to suitable containers for proper disposal.

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.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling

Wear personal protective equipment. Avoid contact with eyes, skin and clothing. Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Do not breathe vapours or spray mist. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Storage

Keep in a dry, cool and well-ventilated place. Keep out of the reach of children.

Incompatible products

Strong acids. Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure guidelines

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRIMETHYLBENZENES 25551-13-7</td>
<td>TWA: 25 ppm</td>
<td>TWA: 25 ppm</td>
<td>TWA: 125 mg/m³</td>
</tr>
<tr>
<td>MANGANESE FERRITE BLACK SPINEL 68186-94-7</td>
<td>TWA: 0.02 mg/m³</td>
<td>Ceiling: 5 mg/m³</td>
<td>500 mg/m³</td>
</tr>
<tr>
<td>ALUMINUM FLAKE 7429-90-5</td>
<td>TWA: 1 mg/m³</td>
<td>TWA: 15 mg/m³</td>
<td>TWA: 5 mg/m³</td>
</tr>
<tr>
<td>ZINC OXIDE (TOTAL DUST) 1314-13-2</td>
<td>TWA: 2 mg/m³</td>
<td>TWA: 5 mg/m³</td>
<td>TWA: 10 mg/m³</td>
</tr>
<tr>
<td></td>
<td>STEL: 10 mg/m³</td>
<td>STEL: 10 mg/m³</td>
<td>TWA: 15 mg/m³</td>
</tr>
<tr>
<td>XYLENE 1330-20-7</td>
<td>TWA: 100 ppm</td>
<td>TWA: 100 ppm</td>
<td>TWA: 435 mg/m³</td>
</tr>
<tr>
<td></td>
<td>STEL: 150 ppm</td>
<td>TWA: 435 mg/m³</td>
<td>STEL: 655 mg/m³</td>
</tr>
<tr>
<td>ETHYL BENZENE 100-41-4</td>
<td>TWA: 20 ppm</td>
<td>TWA: 100 ppm</td>
<td>TWA: 435 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA: 100 ppm</td>
<td>STEL: 125 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA: 435 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>800 ppm</td>
</tr>
</tbody>
</table>
### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>liquid</td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>grey</td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Strong aromatic</td>
<td></td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Melting point / freezing point</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td>41 °C / 105.00 °F</td>
<td>Seta closed cup</td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Flammability Limit in Air</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper flammability limit</td>
<td>12.9</td>
<td>No data available</td>
</tr>
<tr>
<td>Lower flammability limit</td>
<td>0.6</td>
<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>50.5</td>
<td>mmHg @ 20°C</td>
</tr>
<tr>
<td>Vapor density</td>
<td>3.4</td>
<td>g/cm³</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>1.989186772</td>
<td>g/cm³</td>
</tr>
<tr>
<td>Water solubility</td>
<td>Insoluble in cold water</td>
<td></td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Appropriate engineering controls

**Engineering measures**

Sufficient ventilation, in volume and pattern, should be provided through both local and general exhaust to keep the air contaminant concentration below current applicable OSHA Permissible Exposure Limits (PEL) and ACGIH’s Threshold Limit Values (TLV). Appropriate ventilation should be employed to remove hazardous decomposition products formed during welding or flame cutting operations of surfaces coated with this product.

**Individual protection measures, such as personal protective equipment**

- **Eye/face protection**: Chemical goggles or safety glasses with side-shields. If splashes are likely to occur, wear face-shield.

- **Skin and body protection**: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

- **Respiratory protection**: Use only with adequate ventilation. Do not breathe vapors, spray mist, or dust. Ensure fresh air entry during application and drying. If you experience eye watering, headache or dizziness or if air monitoring demonstrates vapor/mist or dust levels are above applicable limits, wear an appropriate, properly fitted respirator (NIOSH/MSHA 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.
10. STABILITY AND REACTIVITY

Reactivity
No data available

Chemical stability
Stable under recommended storage conditions.

Possibility of hazardous reactions
None under normal processing.

Conditions to avoid
Heat, flames and sparks.

Incompatible materials
Strong acids, Strong oxidizing agents

Hazardous decomposition products
Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide. Unidentified organic and inorganic compounds. Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation
May be harmful if inhaled. May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination.

Eye contact
Causes serious eye irritation.

Skin contact
Irritating to skin.

Ingestion
Harmful if swallowed.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOLVENT NAPHTHA</td>
<td>&gt; 5000 mg/kg (Rat)</td>
<td>&gt; 2 mL/kg (Rabbit)</td>
<td>&gt; 590 mg/m³ (Rat) 4 h</td>
</tr>
<tr>
<td>(PETROLEUM) HEAVY AROMATIC</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>64742-94-5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TRIMETHYLBENZENES</td>
<td>= 8970 mg/kg (Rat)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>25551-13-7</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PETROLEUM SOLVENT</td>
<td>= 8400 mg/kg (Rat)</td>
<td>&gt; 2000 mg/kg (Rabbit)</td>
<td>= 3400 ppm (Rat) 4 h</td>
</tr>
<tr>
<td>(NAPTHA) 64742-95-6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,2,4-TRIMETHYLBENZENE 95-63-6</td>
<td>= 3280 mg/kg (Rat)</td>
<td>&gt; 3160 mg/kg (Rabbit)</td>
<td>= 18 g/m³ (Rat) 4 h</td>
</tr>
<tr>
<td>ZINC OXIDE (TOTAL DUST)</td>
<td>&gt; 5000 mg/kg (Rat)</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Page 6 / 12
<table>
<thead>
<tr>
<th>Chemical name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>XYLENE</td>
<td></td>
<td>Group 3</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>1330-20-7</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ETHYL BENZENE</td>
<td>A3</td>
<td>Group 2B</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>100-41-4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NAPTHALENE</td>
<td>A3</td>
<td>Group 2A</td>
<td>Group 2B</td>
<td>X</td>
</tr>
<tr>
<td>91-20-3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CRYSSTALLINE SILICA</td>
<td>A2</td>
<td>Group 1</td>
<td>Known</td>
<td>X</td>
</tr>
<tr>
<td>QUARTZ</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14808-60-7</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CUMENE (SKIN)</td>
<td></td>
<td>Group 2B</td>
<td>Reasonably Anticipated</td>
<td>X</td>
</tr>
<tr>
<td>98-82-8</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**ACGIH:** (American Conference of Governmental Industrial Hygienists)
- A2 - Suspected Human Carcinogen
- A3 - Animal Carcinogen

**IARC:** (International Agency for Research on Cancer)
- Group 1 - Carcinogenic to Humans
- Group 2A - Possibly Carcinogenic to Humans
- Group 2B - Possibly Carcinogenic to Humans

**NTP:** (National Toxicity Program)
- Known - Known Carcinogen
- Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

**OSHA:** (Occupational Safety & Health Administration)
- X - Present

**Reproductive effects**
- Suspected of damaging fertility or the unborn child.

**STOT - single exposure**
- No information available

**STOT - repeated exposure**
- No information available

**Target organ effects**
- blood, Central nervous system, Gastrointestinal tract, Eyes, kidney, liver, respiratory system, Skin.

**Aspiration hazard**
- No information available.

**Acute Toxicity**
- 80.1 % of the mixture consists of ingredient(s) of unknown toxicity. mg/kg mg/l

---

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Toxic to aquatic life with long lasting effects

- 81.9 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Toxicity to algae</th>
<th>Toxicity to fish</th>
<th>Toxicity to daphnia</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOLVENT NAPHTHA</td>
<td>2.5: 72 h Skeletonema costatum</td>
<td>19: 96 h Pimephales promelas mg/L</td>
<td>0.95: 48 h Daphnia magna mg/L</td>
</tr>
</tbody>
</table>
### Persistence and degradability

No information available.

### Bioaccumulation

No information available.

### Mobility in Environmental Media

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>log Pow</th>
<th>mcG Penguin</th>
<th>mcG Rana</th>
<th>mcG Epo</th>
<th>mcG Pol</th>
<th>mcG Rod</th>
<th>mcG Bride</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOLVENT NAPHTHA (PETROLEUM) HEAVY AROMATIC 64742-94-5</td>
<td>2.9 - 6.1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,2,4-TRIMETHYLBENZENE 95-63-6</td>
<td>3.63</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**Persistence and degradability**

No information available.

**Bioaccumulation**

No information available.

**Mobility in Environmental Media**
Other Adverse Effects
No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal Methods
It must undergo special treatment, e.g. at suitable disposal site, to comply with local regulations.

Contaminated packaging
Empty containers should be taken to an approved waste handling site for recycling or disposal.

US EPA Waste Number

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>RCRA</th>
<th>RCRA - Basis for Listing</th>
<th>RCRA - D Series Wastes</th>
<th>RCRA - U Series Wastes</th>
</tr>
</thead>
<tbody>
<tr>
<td>XYLENE 1330-20-7</td>
<td></td>
<td></td>
<td></td>
<td>U239</td>
</tr>
<tr>
<td>ETHYL BENZENE 100-41-4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NAPTHALENE 91-20-3</td>
<td>U165</td>
<td>Included in waste stream:</td>
<td></td>
<td>U165</td>
</tr>
<tr>
<td></td>
<td></td>
<td>F024, F025, F034, F039,</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>K001, K035, K060, K087,</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>K145</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CUMENE (SKIN) 98-82-8</td>
<td></td>
<td></td>
<td></td>
<td>U055</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>NAPTHALENE 91-20-3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

California Hazardous Waste Status
This product contains one or more substances that are listed with the State of California as a hazardous waste

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAWAST</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ALUMINUM FLAKE 7429-90-5</td>
<td>Ignitable</td>
<td>Ignitable</td>
</tr>
<tr>
<td>ZINC OXIDE (TOTAL DUST) 1314-13-2</td>
<td>Toxic</td>
<td>Ignitable</td>
</tr>
<tr>
<td>XYLENE 1330-20-7</td>
<td>Toxic</td>
<td>Ignitable</td>
</tr>
<tr>
<td>ETHYL BENZENE</td>
<td>Toxic</td>
<td></td>
</tr>
</tbody>
</table>
10.4 TRANSPORT INFORMATION

**DOT**
Proper Shipping Name: paint in oil - Not regulated

Additional information: Call TNEMEC Traffic Department - 816-474-3400 for additional information or other modes of Transportation.

15. REGULATORY INFORMATION

**International Inventories**

<table>
<thead>
<tr>
<th>Inventory</th>
<th>Compliance</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSCA</td>
<td>Complies</td>
</tr>
<tr>
<td>DSL/NDSL</td>
<td>Does not comply</td>
</tr>
<tr>
<td>EINECS/ELINCS</td>
<td>Does not comply</td>
</tr>
<tr>
<td>ENCS</td>
<td>Does not comply</td>
</tr>
<tr>
<td>IECSC</td>
<td>Does not comply</td>
</tr>
<tr>
<td>KECL</td>
<td>Does not comply</td>
</tr>
<tr>
<td>PICCS</td>
<td>Does not comply</td>
</tr>
<tr>
<td>AICS</td>
<td>Does not comply</td>
</tr>
</tbody>
</table>

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List
**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
**ENCS** - Japan Existing and New Chemical Substances
**IECSC** - China Inventory of Existing Chemical Substances
**KECL** - Korean Existing and Evaluated Chemical Substances
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances
**AICS** - Australian Inventory of Chemical Substances

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

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>HAPS Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>MANGANESE FERRITE BLACK SPINEL</td>
<td></td>
</tr>
<tr>
<td>XYLENE</td>
<td></td>
</tr>
<tr>
<td>ETHYL BENZENE</td>
<td></td>
</tr>
<tr>
<td>NAPTHALENE</td>
<td></td>
</tr>
<tr>
<td>CUMENE (SKIN)</td>
<td></td>
</tr>
</tbody>
</table>

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and and Title 40n of the Code of Federal Regulations, Part 372:

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>SARA 313 - Threshold Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>MANGANESE FERRITE BLACK SPINEL - 68186-94-7</td>
<td>1.0</td>
</tr>
<tr>
<td>ALUMINUM FLAKE - 7429-90-5</td>
<td>1.0</td>
</tr>
<tr>
<td>1,2,4-TRIMETHYLENZE - 95-63-6</td>
<td>1.0</td>
</tr>
<tr>
<td>ZINC OXIDE (TOTAL DUST) - 1314-13-2</td>
<td>1.0</td>
</tr>
<tr>
<td>XYLENE - 1330-20-7</td>
<td>1.0</td>
</tr>
<tr>
<td>ETHYL BENZENE - 100-41-4</td>
<td>0.1</td>
</tr>
<tr>
<td>NAPTHALENE - 91-20-3</td>
<td>0.1</td>
</tr>
<tr>
<td>CUMENE (SKIN) - 98-82-8</td>
<td>1.0</td>
</tr>
</tbody>
</table>

**SARA 311/312 Hazardous**

**Categorization**

<table>
<thead>
<tr>
<th>Hazard</th>
<th>Yes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Health Hazard</td>
<td></td>
</tr>
<tr>
<td>Chronic Health Hazard</td>
<td>Yes</td>
</tr>
</tbody>
</table>
Fire Hazard: Yes
Sudden Release of Pressure Hazard: No
Reactive Hazard: No

Clean Water Act

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CWA - Reportable Quantities</th>
<th>CWA - Toxic Pollutants</th>
<th>CWA - Priority Pollutants</th>
<th>CWA - Hazardous Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZINC OXIDE (TOTAL DUST) 1314-13-2</td>
<td>100 lb</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>XYLENE 1330-20-7</td>
<td>100 lb</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>ETHYL BENZENE 100-41-4</td>
<td>1000 lb</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>NAPTHALENE 91-20-3</td>
<td>100 lb</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

CERCLA

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Hazardous Substances RQs</th>
<th>CERCLA EHS RQs</th>
<th>RQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>XYLENE 1330-20-7</td>
<td>100 lb</td>
<td></td>
<td>RQ 100 lb final RQ</td>
</tr>
<tr>
<td>ETHYL BENZENE 100-41-4</td>
<td>1000 lb</td>
<td></td>
<td>RQ 1000 lb final RQ</td>
</tr>
<tr>
<td>NAPTHALENE 91-20-3</td>
<td>100 lb 1 lb</td>
<td></td>
<td>RQ 100 lb final RQ</td>
</tr>
<tr>
<td>CUMENE (SKIN) 98-82-8</td>
<td>5000 lb</td>
<td></td>
<td>RQ 5000 lb final RQ</td>
</tr>
</tbody>
</table>

California Prop. 65
This product can expose you to the following chemicals which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>California Prop. 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHYL BENZENE - 100-41-4</td>
<td>Carcinogen</td>
</tr>
<tr>
<td>CRYSTALLINE SILICA (QUARTZ) - 14808-60-7</td>
<td>Carcinogen</td>
</tr>
<tr>
<td>NAPTHALENE - 91-20-3</td>
<td>Carcinogen</td>
</tr>
<tr>
<td>CUMENE (SKIN) - 98-82-8</td>
<td>Carcinogen</td>
</tr>
</tbody>
</table>

California SCAQMD Rule 443
Contains Photochemically Reactive Solvent

State Right-to-Know

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRIMETHYLBENZENES 25551-13-7</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>MANGANESE FERRITE BLACK SPINEL 68186-94-7</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>ALUMINUM FLAKE 7429-90-5</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1,2,4-TRIMETHYLBENZENE 95-63-6</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>ZINC OXIDE (TOTAL DUST) 1314-13-2</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>XYLENE 1330-20-7</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>ETHYL BENZENE 100-41-4</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>NAPTHALENE 91-20-3</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>CRYSTALLINE SILICA (QUARTZ) 14808-60-7</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>
16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health 2</th>
<th>Flammability 3</th>
<th>Instability 0</th>
<th>Physical hazard *</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMIS (Hazardous Material Information System)</td>
<td>Health 2*</td>
<td>Flammability 3</td>
<td>Reactivity 0</td>
<td></td>
</tr>
</tbody>
</table>

Prepared By: Tnemec Regulatory Dept: 816-474-3400
Revision Date: 08-Jun-2017
Revision Summary: 9 5 6 7 10 8 11 14 15 1 4 13

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

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End of SDS