# Material Safety Data Sheet

**Issuing Date** 18-Sep-2012 **Revision Date** 18-Sep-2012 **Revision Number** 0

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** **E-F Series ProSelect YELLOW HIGH VOC SEMI GLOSS SOLVENT PAINT**

**Product Code(s)** **98EF2276**

**UN-Number** UN1263

**Recommended Use** Traffic paint

**Product Technology** S/B

**Manufacturer Address**
Ennis-Flint
5910 North Central Expressway
Suite 1050
Dallas TX 75206
T: 800.331.8118
800.331.8118 (For Technical Inquiries)

**Chemical Emergency Phone Number** Chemtrec 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

**DANGER!**

### Emergency Overview

Highly flammable liquid and vapor
Irritating to eyes and skin
Risk of serious damage to the lungs (by aspiration)
Causes central nervous system depression
Cancer hazard
May adversely affect nervous system, liver, kidney and heart
Contains a known or suspected reproductive toxin
WARNING! This product contains a chemical known in the State of California to cause cancer and birth defects or other reproductive harm.

**Appearance** Yellow **Physical State** Liquid. **Odor** Aromatic solvent/toluene

**Potential Health Effects**
**Principle Routes of Exposure** Inhalation. Skin contact. Eye contact.

**Acute Toxicity**

**Eyes** Moderately irritating to the eyes

**Skin** Irritating to skin. Repeated exposure may cause skin dryness or cracking.

**Inhalation** May cause irritation of respiratory tract. May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination. Sanding and grinding dust may be harmful if inhaled.

**Ingestion** Ingestion may cause irritation to mucous membranes. Harmful if swallowed. Aspiration may cause pulmonary edema and pneumonitis. May cause additional affects as listed under "Inhalation".

**Chronic Effects** Contains toluene. Exposure to toluene in animals via inhalation and intentional overexposure to toluene in humans has caused adverse fetal development effects. This product contains crystalline silica (quartz) in a non-respirable form. Inhalation of crystalline silica is unlikely to occur from exposure to this product. Crystalline silica (quartz) has been classified by the International Agency for Research on Cancer (IARC) as a known human carcinogen (Group 1). This product contains titanium dioxide in a non-respirable form. Inhalation of titanium dioxide is unlikely to occur from exposure to this product. Titanium dioxide has been classified by the International Agency for Research on Cancer (IARC) as possibly carcinogenic to humans (Group 2B) by inhalation. Ethylbenzene has been classified by the International Agency for Research on Cancer (IARC) as possibly carcinogenic to humans (Group 2B). Prolonged or repeated overexposure to ethylbenzene may result in adverse effects to the kidneys, liver, respiratory system, thyroid, testicles, and pituitary glands. Contains a known or suspected reproductive toxin.

**Aggravated Medical Conditions** Skin disorders. Pre-existing eye disorders. Central nervous system. Respiratory disorders.

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

**Environmental Hazard** See Section 12 for additional Ecological Information.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

.

| Chemical Name | CAS-No | Weight % |
|---|---|---|
| Toluene | 108-88-3 | 10-30 |
| Methyl ethyl ketone | 78-93-3 | 1-5 |
| Titanium dioxide | 13463-67-7 | 1-5 |
| Barium sulfate | 7727-43-7 | 1-5 |
| Ethyl benzene | 100-41-4 | 0.1-1 |
| Quartz | 14808-60-7 | 0.1-1 |
| Benzene | 71-43-2 | <0.1 |

## 4. FIRST AID MEASURES

**General Advice** If swallowed, get medical help or contact a Poison Control Center right away. Show this safety data sheet to the doctor in attendance.

**Eye Contact** Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Call a physician immediately.

**Skin Contact** Wash off immediately with soap and plenty of water. Consult a physician.

**Inhalation** Move to fresh air. If not breathing, give artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Call a physician immediately.

**Ingestion** Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately. Consult a physician.

**Notes to Physician** Aspiration hazard. Treat symptomatically.

**Protection of First-aiders** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

## 5. FIRE-FIGHTING MEASURES

**Flammable Properties** Highly flammable liquid and vapor

**Flash Point** -14 °F / -10 °C

**Suitable Extinguishing Media** Dry chemical, $CO_2$, water spray or regular foam. Use water spray or fog; do not use straight streams.

**Unsuitable Extinguishing Media** CAUTION: All these products have a very low flash point. Use of water spray when fighting fire may be inefficient.

**Explosion Data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** Yes.

**Specific Hazards Arising from the Chemical** Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Extremely flammable. Keep product and empty container away from heat and sources of ignition. Risk of ignition

**Protective Equipment and Precautions for Firefighters** Move containers from fire area if you can do it without risk.

| | | | | |
|---|---|---|---|---|
| **NFPA** | **Health Hazard** 2 | **Flammability** 3 | **Instability** 0 | **Physical and Chemical Hazards** - |
| **HMIS** | **Health Hazard** 2* | **Flammability** 3 | **Physical Hazard** 0 | **Personal Protection** X |

**Indicates a chronic health hazard.*

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions** ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Pay attention to flashback. Use personal protective equipment. Avoid contact with skin, eyes and clothing.

**Environmental Precautions** Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.

**Methods for Containment** Dike far ahead of liquid spill for later disposal. A vapor suppressing foam may be used to reduce vapors.

**Methods for Cleaning Up** Dam up. Cover liquid spill with sand, earth or other noncombustible absorbent material. Take precautionary measures against static discharges. Use clean non-sparking tools to collect absorbed material. Pick up and transfer to properly labeled containers.

**Other Information** Water spray may reduce vapor; but may not prevent ignition in closed spaces.

## 7. HANDLING AND STORAGE

**Handling** Use only in area provided with appropriate exhaust ventilation. Use only in an area containing flame proof equipment. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Avoid breathing vapors or mists.

**Storage** Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers. Keep away from heat and sources of ignition. Keep away from heat.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Guidelines**

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---|---|---|---|
| Toluene<br>108-88-3 | TWA: 20 ppm | TWA: 200 ppm<br>(vacated) TWA: 100 ppm<br>(vacated) TWA: 375 mg/m³<br>(vacated) STEL: 150 ppm<br>(vacated) STEL: 560 mg/m³<br>Ceiling: 300 ppm | IDLH: 500 ppm<br>TWA: 100 ppm<br>TWA: 375 mg/m³<br>STEL: 150 ppm<br>STEL: 560 mg/m³ |
| Methyl ethyl ketone<br>78-93-3 | STEL: 300 ppm<br>TWA: 200 ppm | TWA: 200 ppm<br>TWA: 590 mg/m³<br>(vacated) TWA: 200 ppm<br>(vacated) TWA: 590 mg/m³<br>(vacated) STEL: 300 ppm<br>(vacated) STEL: 885 mg/m³ | IDLH: 3000 ppm<br>TWA: 200 ppm<br>TWA: 590 mg/m³<br>STEL: 300 ppm<br>STEL: 885 mg/m³ |
| Titanium dioxide<br>13463-67-7 | TWA: 10 mg/m³ | TWA: 15 mg/m³ total dust<br>(vacated) TWA: 10 mg/m³ total dust | IDLH: 5000 mg/m³ |
| Barium sulfate<br>7727-43-7 | TWA: 10 mg/m³ | TWA: 15 mg/m³ total dust<br>TWA: 5 mg/m³ respirable fraction<br>(vacated) TWA: 10 mg/m³ total dust<br>(vacated) TWA: 5 mg/m³ respirable fraction | TWA: 10 mg/m³ total dust<br>TWA: 5 mg/m³ respirable dust |
| Ethyl benzene<br>100-41-4 | STEL: 125 ppm<br>TWA: 100 ppm | TWA: 100 ppm<br>TWA: 435 mg/m³<br>(vacated) TWA: 100 ppm<br>(vacated) TWA: 435 mg/m³<br>(vacated) STEL: 125 ppm<br>(vacated) STEL: 545 mg/m³ | IDLH: 800 ppm<br>TWA: 100 ppm<br>TWA: 435 mg/m³<br>STEL: 125 ppm<br>STEL: 545 mg/m³ |
| Quartz<br>14808-60-7 | TWA: 0.025 mg/m³ respirable fraction | 30/(%SiO2+2) mg/m³ TWA, Total Dust;250/%SiO2+5) mppcf TWA, respirable fraction; 10/(%SiO2+2) mg/m³ TWA, respirable<br>TWA: 0.1 mg/m³ (vacated) | IDLH: 50 mg/m³ respirable dust<br>TWA: 0.05 mg/m³ respirable dust |

*OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. NIOSH IDLH: Immediately Dangerous to Life or Health.*

**Other Exposure Guidelines** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

**Engineering Measures** Showers. Eyewash stations. Explosion proof ventilation systems.

**Personal Protective Equipment**

**Eye/Face Protection** Tightly fitting safety goggles.

**Skin and Body Protection** Impervious gloves. Solvent-resistant apron and boots

**Respiratory Protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene Measures** When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|---|---|---|---|
| **Appearance** | Yellow. | **Odor** | Aromatic solvent/toluene. |
| **Odor Threshold** | Not applicable | **Physical State** | Liquid |
| **pH** | Not applicable | | |
| **Flash Point** | -14 °F / -10 °C | **Autoignition Temperature** | Not applicable |
| **Decomposition Temperature** | Not applicable | **Boiling Point/Boiling Range** | >35 °C / >95 °F |
| **Melting Point/Range** | Not applicable | | |
| | | **Flammability Limits in Air** | (Toluene) |
| | | **Upper** | 7.1% |
| | | **Lower** | 1.1% |
| **Specific Gravity** | 1.1-1.2 | **Solubility** | Not applicable |
| **Evaporation Rate** | Not applicable | **Vapor Pressure** | Not applicable |
| **Vapor Density** | Not applicable | **VOC (g/l)** | <500 |

## 10. STABILITY AND REACTIVITY

**Stability** Stable under recommended storage conditions.

**Incompatible Products** Strong oxidizing agents. Strong acids.

**Conditions to Avoid** Heat, flames and sparks.

**Hazardous Decomposition Products** Carbon oxides. Hydrocarbons.

**Hazardous Polymerization** Hazardous polymerization does not occur.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

**Product Information** No acute toxicity information is available for this product.

**Component Information**

| Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|---|---|---|---|
| Toluene | >5580 mg/kg ( Rat ) | 12124 mg/kg ( Rat )<br>8390 mg/kg ( Rabbit ) | 26700 ppm ( Rat ) 1 h |
| Methyl ethyl ketone | = 2737 mg/kg ( Rat ) | = 6480 mg/kg ( Rabbit ) | 23500 mg/m$^3$ |
| Titanium dioxide | > 10000 mg/kg ( Rat ) | | > 6820 mg/m$^3$ |
| Ethyl benzene | = 3500 mg/kg ( Rat ) | = 15354 mg/kg ( Rabbit ) | = 17.2 mg/L ( Rat ) 4 h |
| Quartz | 500 mg/kg ( Rat ) | | |

### Chronic Toxicity

**Chronic Toxicity** Contains toluene. Exposure to toluene in animals via inhalation and intentional overexposure to toluene in humans has caused adverse fetal development effects. This product contains crystalline silica (quartz) in a non-respirable form. Inhalation of crystalline silica is unlikely to occur from exposure to this product. Crystalline silica (quartz) has been classified by the International Agency for Research on Cancer (IARC) as a known human carcinogen (Group 1). This product contains titanium dioxide in a non-respirable form. Inhalation of titanium dioxide is unlikely to occur from exposure to this product. Titanium dioxide has been classified by the International Agency for Research on Cancer (IARC) as possibly carcinogenic to humans (Group 2B) by inhalation. Ethylbenzene has been classified by the International Agency for Research on Cancer (IARC) as possibly carcinogenic to humans (Group 2B). Prolonged or repeated overexposure to ethylbenzene may result in adverse effects to the kidneys, liver, respiratory system, thyroid, testicles, and pituitary glands. Contains a known or suspected reproductive toxin.

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

| Chemical Name | ACGIH | IARC | NTP | OSHA |
|---|---|---|---|---|
| Toluene | | Group 3 | - | - |
| Titanium dioxide | | Group 2B | | X |
| Ethyl benzene | A3 | Group 2B | | X |
| Quartz | A2 | Group 1 | Known | X |
| Benzene | A1 | Group 1 | Known | X |

**ACGIH: (American Conference of Governmental Industrial Hygienists)**
A1 - Known Human Carcinogen
A2 - Suspected Human Carcinogen
A3 - Animal Carcinogen
**IARC: (International Agency for Research on Cancer)**
Group 1 - Carcinogenic to Humans
Group 2B - Possibly Carcinogenic to Humans
Group 3: Not Classifiable as to its Carcinogenicity to Humans
**NTP: (National Toxicity Program)**
Known - Known Carcinogen
**OSHA: (Occupational Safety & Health Administration)**
X - Present

**Reproductive Toxicity** Product is or contains a chemical which is a known or suspected reproductive hazard.

**Target Organ Effects** Central nervous system (CNS). Respiratory system.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

The environmental impact of this product has not been fully investigated.

| Chemical Name | Toxicity to Algae | Toxicity to Fish | Toxicity to Microorganisms | Daphnia Magna (Water Flea) |
|---|---|---|---|---|
| Toluene | EC50: >433 mg/L Pseudokirchneriella subcapitata 96 h<br>EC50: 12.5 mg/L Pseudokirchneriella subcapitata 72 h static | LC50: 15.22-19.05 mg/L Pimephales promelas 96 h flow-through<br>LC50: 12.6 mg/L Pimephales promelas 96 h static<br>LC50: 5.89-7.81 mg/L Oncorhynchus mykiss 96 h flow-through<br>LC50: 14.1-17.16 mg/L Oncorhynchus mykiss 96 h static<br>LC50: 5.8 mg/L Oncorhynchus mykiss 96 h semi-static<br>LC50: 11.0-15.0 mg/L Lepomis macrochirus 96 h static<br>LC50: 54 mg/L Oryzias latipes 96 h static<br>LC50: 28.2 mg/L Poecilia reticulata 96 h semi-static<br>LC50: 50.87-70.34 mg/L Poecilia reticulata 96 h static | EC50 = 19.7 mg/L 30 min | EC50 48 h: 5.46 - 9.83 mg/L Static (Daphnia magna)<br>EC50 48 h: = 11.5 mg/L (Daphnia magna) |
| Methyl ethyl ketone | | LC50 96 h: 3130-3320 mg/L flow-through (Pimephales promelas) | EC50 = 3403 mg/L 30 min<br>EC50 = 3426 mg/L 5 min | EC50 48 h: 4025 - 6440 mg/L Static (Daphnia magna)<br>EC50 48 h: = 5091 mg/L (Daphnia magna)<br>EC50 48 h: > 520 mg/L (Daphnia magna) |
| Ethyl benzene | EC50 96 h: 1.7 - 7.6 mg/L static (Pseudokirchneriella subcapitata)<br>EC50 72 h: 2.6 - 11.3 mg/L static (Pseudokirchneriella subcapitata)<br>EC50 72 h: = 4.6 mg/L (Pseudokirchneriella subcapitata)<br>EC50 96 h: > 438 mg/L (Pseudokirchneriella subcapitata) | LC50 96 h: 11.0-18.0 mg/L static (Oncorhynchus mykiss)<br>LC50 96 h: 7.55-11 mg/L flow-through (Pimephales promelas)<br>LC50 96 h: 9.1-15.6 mg/L static (Pimephales promelas)<br>LC50 96 h: = 32 mg/L static (Lepomis macrochirus)<br>LC50 96 h: = 4.2 mg/L semi-static (Oncorhynchus mykiss)<br>LC50 96 h: = 9.6 mg/L static (Poecilia reticulata) | EC50 = 9.68 mg/L 30 min<br>EC50 = 96 mg/L 24 h | EC50 48 h: 1.8 - 2.4 mg/L (Daphnia magna) |
| Benzene | EC50 72 h: = 29 mg/L (Pseudokirchneriella subcapitata) | LC50 96 h: 10.7-14.7 mg/L flow-through (Pimephales promelas)<br>LC50 96 h: 22330-41160 µg/L static (Pimephales promelas)<br>LC50 96 h: 70000-142000 µg/L static (Lepomis macrochirus)<br>LC50 96 h: = 22.49 mg/L static (Lepomis macrochirus)<br>LC50 96 h: = 28.6 mg/L static (Poecilia reticulata)<br>LC50 96 h: = 5.3 mg/L flow-through (Oncorhynchus mykiss) | | EC50 48 h: 8.76 - 15.6 mg/L Static (Daphnia magna)<br>EC50 48 h: = 10 mg/L (Daphnia magna) |

| Chemical Name | Log Pow |
|---|---|
| Toluene | 2.65 |
| Methyl ethyl ketone | 0.29 |
| Ethyl benzene | 3.118 |
| Benzene | 1.83 |

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Methods**

Dispose of in accordance with local regulations. This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

**Contaminated Packaging**

Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers. Do not re-use empty containers.

**US EPA Waste Number**

D001
D018
U019
U056
U154
U220

| Chemical Name | RCRA | RCRA - Basis for Listing | RCRA - D Series Wastes | RCRA - U Series Wastes |
|---|---|---|---|---|
| Toluene - 108-88-3 | U220 | Included in waste streams: F005, F024, F025, F039, K015, K036, K037, K149, K151 | | U220 |
| Methyl ethyl ketone - 78-93-3 | waste number U159 | Included in waste streams: F005, F039 | = 200.0 mg/L regulatory level | U159 |
| Ethyl benzene - 100-41-4 | | Included in waste stream: F039 | | |
| Benzene - 71-43-2 | waste number U019 | Included in waste streams: F005, F024, F025, F037, F038, F039, K085, K104, K105, K141, K142, K143, K144, K145, K147, K151, K159, K169, K171, K172 | = 0.5 mg/L regulatory level | U019 |

| Chemical Name | RCRA - Halogenated Organic Compounds | RCRA - P Series Wastes | RCRA - F Series Wastes | RCRA - K Series Wastes |
|---|---|---|---|---|
| Toluene - 108-88-3 | | | Toxic waste<br>waste number F025<br>Waste description: Condensed light ends, spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons, by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution. | |

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

| Chemical Name | California Hazardous Waste |
|---|---|
| Toluene | Toxic<br>Ignitable |
| Methyl ethyl ketone | Toxic<br>Ignitable |
| Barium sulfate | Toxic soluble |
| Ethyl benzene | Toxic<br>Ignitable |
| Benzene | Toxic<br>Ignitable |

## 14. TRANSPORT INFORMATION

**DOT**

| | |
|---|---|
| **UN-Number** | UN1263 |
| **Proper shipping name** | Paint |
| **Hazard Class** | 3 |
| **Subsidiary Class** | |
| **Packing Group** | II |
| **Description** | UN1263, Paint, 3, , II |
| **Emergency Response Guide Number** | 128 |

**TDG**

| | |
|---|---|
| **UN-Number** | UN1263 |
| **Proper Shipping Name** | Paint |
| **Hazard Class** | 3 |
| **Packing Group** | II |
| **Description** | UN1263, PAINT, 3, II |

**MEX**

| | |
|---|---|
| **UN-Number** | UN1263 |
| **Proper Shipping Name** | Paint |
| **Hazard Class** | 3 |
| **Packing Group** | II |
| **Description** | UN1263 Paint, 3, II |

**ICAO**

| | |
|---|---|
| **UN-Number** | UN1263 |
| **Proper shipping name** | Paint |
| **Hazard Class** | 3 |
| **Packing Group** | II |
| **Description** | UN1263, Paint, 3, II |

**IATA**

| | |
|---|---|
| **UN-Number** | UN1263 |
| **Proper Shipping Name** | Paint |
| **Hazard Class** | 3 |
| **Packing Group** | II |
| **ERG Code** | 3L |
| **Description** | UN1263, Paint, 3, II |

**IMDG/IMO**

| | |
|---|---|
| **UN-Number** | UN1263 |
| **Proper Shipping Name** | Paint |
| **Hazard Class** | 3 |
| **Packing Group** | II |
| **EmS No.** | F-E, S-E |
| **Description** | UN1263, Paint, 3, II, FP -10C |

**RID**

| | |
|---|---|
| **UN-Number** | UN1263 |
| **Proper Shipping Name** | Paint |
| **Hazard Class** | 3 |
| **Packing Group** | II |
| **Classification Code** | F1 |
| **Description** | UN1263 Paint, 3, II |

**ADR**

| | |
|---|---|
| **UN-Number** | UN1263 |
| **Proper Shipping Name** | Paint |
| **Hazard Class** | 3 |
| **Packing Group** | II |
| **Classification Code** | F1 |
| **Description** | UN1263 Paint, 3, II |

**ADN**

| | |
|---|---|
| **UN-No** | UN1263 |
| **Proper Shipping Name** | Paint |
| **Hazard Class** | 3 |
| **Packing Group** | II |
| **Classification Code** | F1 |
| **Special Provisions** | 163, 640C, 650 |
| **Description** | UN1263 Paint, 3, II |
| **Hazard Labels** | 3 |
| **Limited Quantity** | LQ6 |
| **Ventilation** | VE01 |

## 15. REGULATORY INFORMATION

**International Inventories**

| | |
|---|---|
| **TSCA** | Complies |
| **DSL** | Complies |

**Legend**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**U.S. Federal Regulations**

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 Title 40 of the Code of Federal Regulations, Part 372:

| Chemical Name | CAS-No | Weight % | SARA 313 - Threshold Values % |
|---|---|---|---|
| Toluene | 108-88-3 | 10-30 | 1.0 |
| Barium sulfate | 7727-43-7 | 1-5 | 1.0 |
| Ethyl benzene | 100-41-4 | 0.1-1 | 0.1 |

**SARA 311/312 Hazard Categories**

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

**Clean Water Act**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

| Chemical Name | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|---|---|---|---|---|
| Toluene | 1000 lb | X | X | X |

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

| Chemical Name | Hazardous Substances RQs | Extremely Hazardous Substances RQs | RQ |
|---|---|---|---|
| Toluene | 1000 lb | | RQ 1000 lb final RQ<br>RQ 454 kg final RQ |
| Methyl ethyl ketone | 5000 lb | | RQ 5000 lb final RQ<br>RQ 2270 kg final RQ |

## U.S. State Regulations

### California Proposition 65

This product contains the following Proposition 65 chemicals:

| Chemical Name | CAS-No | California Prop. 65 |
|---|---|---|
| Toluene | 108-88-3 | Developmental |
| Titanium dioxide | 13463-67-7 | Carcinogen |
| Methyl alcohol | 67-56-1 | Developmental |
| Ethyl benzene | 100-41-4 | Carcinogen |
| Quartz | 14808-60-7 | Carcinogen |
| Benzene | 71-43-2 | Carcinogen<br>Developmental<br>Male Reproductive |

## U.S. State Right-to-Know Regulations

| Chemical Name | New Jersey | Massachusetts | Pennsylvania | Illinois | Rhode Island |
|---|---|---|---|---|---|
| Toluene | X | X | X | X | X |
| Methyl ethyl ketone | X | X | X | X | X |
| Titanium dioxide | X | X | X | - | X |
| Barium sulfate | X | X | X | | |
| Ethyl benzene | X | X | X | X | X |
| Quartz | X | X | X | - | X |

## International Regulations

| Chemical Name | Carcinogen Status | Exposure Limits |
|---|---|---|
| Toluene | | Mexico: TWA= 50 ppm<br>Mexico: TWA= 188 mg/m$^3$ |
| Methyl ethyl ketone | | Mexico: TWA 200 ppm<br>Mexico: TWA 590 mg/m$^3$<br>Mexico: STEL 300 ppm<br>Mexico: STEL 885 mg/m$^3$ |
| Titanium dioxide | | Mexico: TWA= 10 mg/m$^3$<br>Mexico: STEL= 20 mg/m$^3$ |
| Quartz | | Mexico: TWA= 0.1 mg/m$^3$ |

**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**

B2 Flammable liquid
D2A Very toxic materials
D2B Toxic materials

**Canadian National Pollutant Release Inventory (NPRI)**

| Component | NPRI |
|---|---|
| Toluene<br>108-88-3 ( 10-30 ) | X |
| Methyl ethyl ketone<br>78-93-3 ( 1-5 ) | X |
| Ethyl benzene<br>100-41-4 ( 0.1-1 ) | X |
| Benzene<br>71-43-2 ( <0.1 ) | X |

**Legend**
X - Listed

## 16. OTHER INFORMATION

**Prepared By**
Product Stewardship
23 British American Blvd.
Latham, NY 12110
1-800-572-6501

**Issuing Date** 18-Sep-2012
**Revision Date** 18-Sep-2012
**Revision Note** Initial Release

**General Disclaimer**

**The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication and it does not purport to be all inclusive and shall be used only as a guide. We urge each customer or recipient of this MSDS to study it carefully to become aware of and understand the potential hazards associated with the product. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text. Any use of the product not in conformance with this MSDS or in combination with any other product or process is the responsibility of the user. Customary precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Remove all soiled and contaminated clothing immediately.**

**End of Safety Data Sheet**