

## Safety Data Sheet

### Section 1: Identification

#### Product identifier

**Product Name** • ZBC-2000 HF Z-Thane Vinyl Ester Barrier Coat

**Synonyms** • Vinyl Ester Barrier Gel Coat

**Relevant identified uses of the substance or mixture and uses advised against**

**Recommended use** • Used in the manufacture of thermoset plastic parts

#### Details of the supplier of the safety data sheet

**Manufacturer** • Polycryl Corporation  
260 Pierce Road  
Oakland, TN 38060  
United States  
www.polycrylcorp.com  
rich@polycrylcorp.com

**Telephone (General)** • (901) 465-3330

#### Emergency telephone number

**Manufacturer** • (901) 483-5769

**Manufacturer** • 1-800-424-9300 - Chemtrec

### Section 2: Hazard Identification

#### United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

#### Classification of the substance or mixture

**OSHA HCS 2012** • Flammable Liquids 3  
Aspiration 1  
Eye Irritation 2  
Acute Toxicity Inhalation 4  
Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation  
Carcinogenicity 2

#### Label elements

OSHA HCS 2012

**DANGER**



**Hazard statements** • Flammable liquid and vapour  
May be fatal if swallowed and enters airways  
Causes serious eye irritation  
Harmful if inhaled  
May cause respiratory irritation

Suspected of causing cancer.

## Precautionary statements

- Prevention**
- Obtain special instructions before use.
  - Do not handle until all safety precautions have been read and understood.
  - Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.
  - Keep container tightly closed.
  - Ground and/or bond container and receiving equipment.
  - Use explosion-proof electrical/ventilating/lighting/equipment.
  - Use only non-sparking tools.
  - Take precautionary measures against static discharge.
  - Avoid breathing mist, vapours and/or spray.
  - Wash thoroughly after handling.
  - Use only outdoors or in a well-ventilated area.
  - Wear protective gloves/protective clothing/eye protection/face protection.
- Response**
- In case of fire: Use appropriate media for extinction.
  - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
  - Call a POISON CENTER or doctor/physician if you feel unwell.
  - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
  - 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 SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
  - Do NOT induce vomiting.
  - IF exposed or concerned: Get medical advice/attention.
- Storage/Disposal**
- Store in a well-ventilated place. Keep container tightly closed.
  - Keep cool.
  - Store locked up.
  - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
- Supplemental information**
- 58-63 percent of this product consists of an ingredient of unknown toxicity.

## Other hazards

- OSHA HCS 2012**
- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

## Canada

According to: WHMIS

## Classification of the substance or mixture

- WHMIS**
- Flammable Liquids - B2
  - Other Toxic Effects - D2A
  - Other Toxic Effects - D2B

## Label elements

**WHMIS**



- Flammable Liquids - B2
- Other Toxic Effects - D2A
- Other Toxic Effects - D2B

**Other hazards**

**WHMIS** • In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

**Section 3 - Composition/Information on Ingredients****Substances**

- Material does not meet the criteria of a substance.

**Mixtures**

| Composition             |                |              |
|-------------------------|----------------|--------------|
| Chemical Name           | Identifiers    | %            |
| Styrene                 | CAS:100-42-5   | 32%          |
| Vinyl Toluene           | CAS:25013-15-4 | 3%           |
| Cobalt 2-Ethylhexanoate | CAS:136-52-7   | 0.1% TO 0.3% |

**Section 4: First-Aid Measures****Description of first aid measures**

- Inhalation** • Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. Do not use mouth-to-mouth method if victim inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention immediately.
- Skin** • In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Remove and isolate contaminated clothing. Wash skin with soap and water. If irritation develops and persists, get medical attention.
- Eye** • In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. If eye irritation persists: Get medical advice/attention.
- Ingestion** • Do NOT induce vomiting. Do not use mouth-to-mouth method if victim ingested the substance. Obtain medical attention immediately if ingested.

**Most important symptoms and effects, both acute and delayed**

- Refer to Section 11 - Toxicological Information.

**Indication of any immediate medical attention and special treatment needed**

- Notes to Physician** • All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

**Section 5: Fire-Fighting Measures****Extinguishing media**

- Suitable Extinguishing Media** • Water fog or fine spray, carbon dioxide fire extinguishers, dry chemical fire extinguishers, foam. General purpose synthetic foams (including AFFF type) or protein foams are preferred if available. Alcohol resistant foams (ATC type) may function.
- Unsuitable Extinguishing Media** • Do not use direct water stream.

## Special hazards arising from the substance or mixture

### Unusual Fire and Explosion Hazards

- **HIGHLY FLAMMABLE:** Will be easily ignited by heat, sparks or flames. Containers may explode when heated. Many liquids are lighter than water. Vapors may form explosive mixtures with air. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapors may travel to source of ignition and flash back. Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard.

### Hazardous Combustion Products

- The original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to phenolic compounds, carbon monoxide, carbon dioxide.

### Advice for firefighters

- Structural firefighters' protective clothing will only provide limited protection. Wear positive pressure self-contained breathing apparatus (SCBA). Move containers from fire area if you can do it without risk. **LARGE FIRES:** Cool containers with flooding quantities of water until well after fire is out.

## Section 6 - Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures

#### Personal Precautions

- Ventilate enclosed areas. **CAUTION:** Victim may be a source of contamination. Do not walk through spilled material. Wear appropriate personal protective equipment, avoid direct contact. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

#### Emergency Procedures

- As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. If tank, rail car or tank truck is involved in a fire, **ISOLATE** for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions. **LARGE SPILL:** Consider initial downwind evacuation for at least 300 meters (1000 feet) **ELIMINATE** all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep unauthorized personnel away. Stay upwind. Keep out of low areas.

### Environmental precautions

- Prevent entry into waterways, sewers, basements or confined areas.

### Methods and material for containment and cleaning up

#### Containment/Clean-up Measures

- Stop leak if you can do it without risk. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Use clean non-sparking tools to collect absorbed material. A vapor suppressing foam may be used to reduce vapors. All equipment used when handling the product must be grounded. **LARGE SPILLS:** Dike far ahead of liquid spill for later disposal. **LARGE SPILLS:** Water spray may reduce vapor; but may not prevent ignition in closed spaces.

## Section 7 - Handling and Storage

### Precautions for safe handling

#### Handling

- Keep away from heat, sparks, and flame. Do not use sparking tools. Take precautionary measures against static charges. All equipment used when handling the product must be grounded. Wear appropriate personal protective equipment, avoid direct contact. Avoid breathing mist, vapours and/or spray. Avoid contact with skin, eyes, and clothing. Avoid direct contact of MEKP catalyst with accelerator. If an accelerator such as cobalt drier is to be added, mix this accelerator with base material before adding catalyst. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

### Conditions for safe storage, including any incompatibilities

**Storage** • Store in a tightly closed container. Store in a cool/low-temperature, well-ventilated place.

## Section 8 - Exposure Controls/Personal Protection

### Control parameters

| Exposure Limits/Guidelines    |          |                 |  |  |
|-------------------------------|----------|-----------------|--|--|
|                               | Result   | ACGIH           | NIOSH                                    | OSHA                                   |
| Vinyl Toluene<br>(25013-15-4) | TWAs     | 50 ppm TWA      | 100 ppm TWA; 480 mg/m <sup>3</sup> TWA   | 100 ppm TWA; 480 mg/m <sup>3</sup> TWA |
|                               | STELs    | 100 ppm STEL    | Not established                          | Not established                        |
| Styrene<br>(100-42-5)         | Ceilings | Not established | Not established                          | 200 ppm Ceiling                        |
|                               | TWAs     | 20 ppm TWA      | 50 ppm TWA; 215 mg/m <sup>3</sup> TWA    | 100 ppm TWA                            |
|                               | STELs    | 40 ppm STEL     | 100 ppm STEL; 425 mg/m <sup>3</sup> STEL | Not established                        |

### Exposure controls

**Engineering Measures/Controls**

- Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Use explosion-proof electrical/ventilating/lighting/equipment.

### Personal Protective Equipment

**Respiratory**

- In case of insufficient ventilation, wear suitable respiratory equipment. Follow the OSHA respirator regulations found in 29 CFR 1910.134. Use a NIOSH/MSHA approved respirator if exposure limits are exceeded or symptoms are experienced.

**Eye/Face**

- Wear safety goggles.

**Skin/Body**

- Wear appropriate gloves. Wear long sleeves and/or protective coveralls.

**Environmental Exposure Controls**

- Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Follow best practice for site management and disposal of waste.

### Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

NIOSH = National Institute of Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

STEL = Short Term Exposure Limits are based on 15-minute exposures

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

## Section 9 - Physical and Chemical Properties

### Information on Physical and Chemical Properties

| Material Description              |                                   |                              |                                     |
|-----------------------------------|-----------------------------------|------------------------------|-------------------------------------|
| Physical Form                     | Liquid                            | Appearance/Description       | A black liquid with a pungent odor. |
| Color                             | Black                             | Odor                         | Pungent                             |
| Odor Threshold                    | No data available                 |                              |                                     |
| General Properties                |                                   |                              |                                     |
| Boiling Point                     | 293 °F(145 °C)                    | Melting Point/Freezing Point | -23.8 °F(-31 °C)                    |
| Decomposition Temperature         | No data available                 | pH                           | No data available                   |
| Specific Gravity/Relative Density | 1.05 to 1.1 Water=1               | Water Solubility             | Slightly Soluble 0.1 to 1 %         |
| Viscosity                         | No data available                 |                              |                                     |
| Volatility                        |                                   |                              |                                     |
| Vapor Pressure                    | 5 mmHg (torr) @ 20 °F(-6.6667 °C) | Vapor Density                | 3.6 Air=1                           |
| Evaporation Rate                  | No data available                 | Volatiles (Wt.)              | 35 %                                |
| Volatiles (Vol.)                  | 35 %                              |                              |                                     |
| Flammability                      |                                   |                              |                                     |

|                                     |                   |              |                   |
|-------------------------------------|-------------------|--------------|-------------------|
| Flash Point                         | 31 °C(87.8 °F)    | UEL          | No data available |
| LEL                                 | No data available | Autoignition | No data available |
| Flammability (solid, gas)           | No data available |              |                   |
| <b>Environmental</b>                |                   |              |                   |
| Octanol/Water Partition coefficient | No data available |              |                   |

## Section 10: Stability and Reactivity

### Reactivity

- No dangerous reaction known under conditions of normal use.

### Chemical stability

- Stable under normal temperatures and pressures.

### Possibility of hazardous reactions

- Hazardous polymerization will not occur.

### Conditions to avoid

- Keep away from heat, sparks and flame. Avoid temperatures above 50C (122F) Avoid direct sunlight or ultraviolet sources.

### Incompatible materials

- Oxidizing Materials.

### Hazardous decomposition products

- Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11 - Toxicological Information

### Information on toxicological effects

| Components                             |            |  |
|--|------------|--|
| Styrene (32%)                          | 100-42-5   | <p><b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 2650 mg/kg; <i>Behavioral:Somnolence (general depressed activity); Liver:Other changes</i>; Inhalation-Rat LC50 • 11800 mg/m<sup>3</sup> 4 Hour(s); Inhalation-Human TCLo • 376 ppm 1 Hour(s); <i>Peripheral Nerve and Sensation:Flaccid paralysis without anesthesia (usually neuromuscular blockage); Behavioral:Changes in motor activity (specific assay)</i>;</p> <p><b>Irritation:</b> Eye-Rabbit • 100 mg 24 Hour(s) • Moderate irritation; Skin-Rabbit • 100 % • Moderate irritation;</p> <p><b>Multi-dose Toxicity:</b> Inhalation-Mouse TCLo • 500 ppm 6 Hour(s) 22 Day(s)-Intermittent; <i>Liver:Hepatitis (hepatocellular necrosis), diffuse</i>; <i>Blood:Changes in serum composition (e.g., TP, bilirubin cholesterol)</i>; <i>Biochemical:Enzyme inhibition, induction, or change in blood or tissue levels:Other transferases</i>; Inhalation-Mouse TCLo • 250 ppm 6 Hour(s) 14 Day(s)-Intermittent; <i>Liver:Hepatitis (hepatocellular necrosis), zonal</i>; <i>Liver:Changes in liver weight</i>; <i>Related to Chronic Data:Death in the Other Multiple Dose data type field</i>; Inhalation-Mouse TCLo • 500 ppm 90 Day(s)-Intermittent; <i>Lungs, Thorax, or Respiration:Structural or functional change in trachea or bronchi</i>; <i>Liver:Hepatitis (hepatocellular necrosis), zonal</i>; <i>Related to Chronic Data:Death in the Other Multiple Dose data type field</i>; Inhalation-Rat TCLo • 600 ppm 4 Week(s)-Intermittent; <i>Sense Organs and Special Senses:Ear:Change in acuity</i>; <i>Sense Organs and Special Senses:Ear:Changes in cochlear structure or function</i>;</p> <p><b>Mutagen:</b> Sister chromatid exchange • Inhalation-Human • 1204 mg/m<sup>3</sup> 5 Year(s)-Intermittent; DNA adduct • Inhalation-Mouse • 1500 µg/L 21 Day(s)-Intermittent; Sister chromatid exchange • Inhalation-Mouse • 125 ppm 4 Day(s)-Intermittent; Cytogenetic analysis • Inhalation-Rat • 300 ppm 8 Week(s)-Intermittent;</p> <p><b>Reproductive:</b> Inhalation-Rat TCLo • 1500 µg/m<sup>3</sup> 24 Hour(s)(1-22D preg); <i>Reproductive Effects:Effects on Embryo or Fetus:Fetotoxicity (except death, e.g., stunted fetus)</i>; <i>Reproductive Effects:Effects on Embryo or Fetus:Fetal death</i>; Inhalation-Rat TCLo • 5 mg/m<sup>3</sup> 24 Hour(s)(1-22D preg); <i>Reproductive Effects:Effects on Newborn:Stillbirth</i>; <i>Reproductive Effects:Effects on Newborn:Weaning or lactation index</i>;</p> <p><b>Tumorigen / Carcinogen:</b> Inhalation-Mouse TCLo • 160 ppm 6 Hour(s) 98 Week(s)-Intermittent; <i>Tumorigenic:Carcinogenic by RTECS criteria</i>; <i>Lungs, Thorax, or Respiration:Tumors</i>; Inhalation-Mouse TCLo • 20 ppm 6 Hour(s) 98 Week(s)-Intermittent; <i>Tumorigenic:Neoplastic by RTECS criteria</i>; <i>Lungs, Thorax, or Respiration:Tumors</i>; Inhalation-Rat TCLo • 100 ppm 4 Hour(s) 5 Day(s)-Intermittent; <i>Tumorigenic:Carcinogenic by RTECS criteria</i>; <i>Skin and Appendages:Other:Tumors</i>; <i>Blood:Leukemia</i></p> |
| Vinyl Toluene (3%)                     | 25013-15-4 | <p><b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 2255 mg/kg; <i>Sense Organs and Special Senses:Eye:Lacrimation</i>; <i>Behavioral:Somnolence (general depressed activity)</i>; <i>Skin and Appendages:Other:Hair</i>;</p> <p><b>Irritation:</b> Eye-Rabbit • 90 mg • Mild irritation; Skin-Rabbit • 100 % • Moderate irritation</p>  |
| Cobalt 2-Ethylhexanoate (0.1% TO 0.3%) | 136-52-7   | <p><b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 1.22 g/kg; <i>Behavioral:Ataxia</i>; <i>Behavioral:Coma</i>; Inhalation-Rat LC50 • &gt;10000 mg/m<sup>3</sup> 1 Hour(s); Skin-Rabbit LD50 • &gt;5 g/kg; <i>Skin and Appendages:After topical exposure:Primary irritation</i></p>   |

| GHS Properties                | Classification   |
|-------------------------------|--|
| Acute toxicity                | OSHA HCS 2012•Acute Toxicity - Inhalation 4 - ATEmix (Inhl, Vapor) =13.6 mg/L 4H             |
| Skin corrosion/Irritation     | OSHA HCS 2012•No data available  |
| Serious eye damage/Irritation | OSHA HCS 2012•Eye Irritation 2   |
| Skin sensitization            | OSHA HCS 2012•No data available  |
| Respiratory sensitization     | OSHA HCS 2012•No data available  |
| Aspiration Hazard             | OSHA HCS 2012•Aspiration 1   |
| Carcinogenicity               | OSHA HCS 2012•Carcinogenicity 2  |
| Germ Cell Mutagenicity        | OSHA HCS 2012•No data available  |
| Toxicity for Reproduction     | OSHA HCS 2012•No data available  |
| STOT-SE                       | OSHA HCS 2012•Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation |
| STOT-RE                       | OSHA HCS 2012•No data available  |

## Potential Health Effects

### Inhalation

**Acute (Immediate)** • Harmful if inhaled. May cause respiratory irritation.

**Chronic (Delayed)** • No data available

### Skin

**Acute (Immediate)** • No data available

**Chronic (Delayed)** • No data available

### Eye

**Acute (Immediate)** • Causes serious eye irritation.

**Chronic (Delayed)** • No data available

### Ingestion

**Acute (Immediate)** • Material may be aspirated into lungs during ingestion and/or subsequent vomiting. Aspiration of this material will cause severe lung injury, chemical pneumonitis, pulmonary edema or death.

**Chronic (Delayed)** • No data available

**Carcinogenic Effects** • Repeated and prolonged exposure may cause cancer.

| Carcinogenic Effects |          |                              |   |
|----------------------|----------|------------------------------|---|
|                      | CAS      | IARC                         | NTP   |
| Styrene              | 100-42-5 | Group 2B-Possible Carcinogen | Reasonably Anticipated to be Human Carcinogen |

### Key to abbreviations

LC = Lethal Concentration

LD = Lethal Dose

TC = Toxic Concentration

## Section 12 - Ecological Information

### Toxicity

- Non-mandatory section - information about this substance not compiled for this reason.

### Persistence and degradability

- Non-mandatory section - information about this substance not compiled for this reason.

### Bioaccumulative potential

- Non-mandatory section - information about this substance not compiled for this reason.

### Mobility in Soil

- Non-mandatory section - information about this substance not compiled for this reason.

### Other adverse effects

- Non-mandatory section - information about this substance not compiled for this reason.

## Section 13 - Disposal Considerations

### Waste treatment methods

**Product waste** • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

**Packaging waste** • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

## Section 14 - Transport Information

|     | UN number | UN proper shipping name | Transport hazard class(es) | Packing group | Environmental hazards |
|-----|-----------|-------------------------|----------------------------|---------------|-----------------------|
| DOT | UN1866    | Resin solution          | 3                          | III           | NDA                   |
| TDG | UN1866    | RESIN SOLUTION          | 3                          | III           | NDA                   |

**Special precautions for user**

- None specified.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** • No data available

## Section 15 - Regulatory Information

### Safety, health and environmental regulations/legislation specific for the substance or mixture

**SARA Hazard Classifications**

- Fire, Acute, Chronic

| Component               | CAS        | Inventory  |             |      |
|-------------------------|------------|------------|-------------|------|
|                         |            | Canada DSL | Canada NDSL | TSCA |
| Styrene                 | 100-42-5   | Yes        | No          | Yes  |
| Cobalt 2-Ethylhexanoate | 136-52-7   | Yes        | No          | Yes  |
| Vinyl Toluene           | 25013-15-4 | Yes        | No          | Yes  |

### Canada

#### Labor

**Canada - WHMIS - Classifications of Substances**

•Vinyl Toluene

25013-15-4 B3, D2B

•Cobalt 2-Ethylhexanoate

136-52-7 Not Listed



|  |            |   |
|--|------------|---|
| •Styrene   | 100-42-5   | B2, D2A   |
| <b>Canada - WHMIS - Ingredient Disclosure List</b>                               |            |   |
| •Vinyl Toluene   | 25013-15-4 | 1 %   |
| •Cobalt 2-Ethylhexanoate   | 136-52-7   | Not Listed  |
| •Styrene   | 100-42-5   | 0.1 %   |
| <b>Environment</b>   |            |   |
| <b>Canada - CEPA - Priority Substances List</b>                                  |            |   |
| •Vinyl Toluene   | 25013-15-4 | Not Listed  |
| •Cobalt 2-Ethylhexanoate   | 136-52-7   | Not Listed  |
| •Styrene   | 100-42-5   | Priority Substance List 1<br>(substance not considered toxic) |
| <b>United States</b>   |            |   |
| <b>Labor</b>   |            |   |
| <b>U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals</b>      |            |   |
| •Vinyl Toluene   | 25013-15-4 | Not Listed  |
| •Cobalt 2-Ethylhexanoate   | 136-52-7   | Not Listed  |
| •Styrene   | 100-42-5   | Not Listed  |
| <b>U.S. - OSHA - Specifically Regulated Chemicals</b>                            |            |   |
| •Vinyl Toluene   | 25013-15-4 | Not Listed  |
| •Cobalt 2-Ethylhexanoate   | 136-52-7   | Not Listed  |
| •Styrene   | 100-42-5   | Not Listed  |
| <b>Environment</b>   |            |   |
| <b>U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants</b>                |            |   |
| •Vinyl Toluene   | 25013-15-4 | Not Listed  |
| •Cobalt 2-Ethylhexanoate   | 136-52-7   | Not Listed  |
| •Styrene   | 100-42-5   |   |
| <b>U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities</b> |            |   |
| •Vinyl Toluene   | 25013-15-4 | Not Listed  |
| •Cobalt 2-Ethylhexanoate   | 136-52-7   | Not Listed  |
| •Styrene   | 100-42-5   | 1000 lb final RQ; 454 kg final RQ                             |
| <b>U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities</b>        |            |   |
| •Vinyl Toluene   | 25013-15-4 | Not Listed  |
| •Cobalt 2-Ethylhexanoate   | 136-52-7   | Not Listed  |
| •Styrene   | 100-42-5   | Not Listed  |
| <b>U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs</b> |            |   |
| •Vinyl Toluene   | 25013-15-4 | Not Listed  |
| •Cobalt 2-Ethylhexanoate   | 136-52-7   | Not Listed  |
| •Styrene   | 100-42-5   | Not Listed  |
| <b>U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs</b>      |            |   |
| •Vinyl Toluene   | 25013-15-4 | Not Listed  |
| •Cobalt 2-Ethylhexanoate   | 136-52-7   | Not Listed  |
| •Styrene   | 100-42-5   | Not Listed  |
| <b>U.S. - CERCLA/SARA - Section 313 - Emission Reporting</b>                     |            |   |
| •Vinyl Toluene   | 25013-15-4 | Not Listed  |
| •Cobalt 2-Ethylhexanoate   | 136-52-7   | Not Listed  |
| •Styrene   | 100-42-5   | 0.1 % de minimis concentration                                |
| <b>U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing</b>                   |            |   |
| •Vinyl Toluene   | 25013-15-4 | Not Listed  |
| •Cobalt 2-Ethylhexanoate   | 136-52-7   | Not Listed  |
| •Styrene   | 100-42-5   | Not Listed  |
| <b>United States - California</b>  |            |   |
| <b>Environment</b>   |            |   |
| <b>U.S. - California - Proposition 65 - Carcinogens List</b>                     |            |   |
| •Vinyl Toluene   | 25013-15-4 | Not Listed  |
| •Cobalt 2-Ethylhexanoate   | 136-52-7   | Not Listed  |
| •Styrene   | 100-42-5   | Not Listed  |
| <b>U.S. - California - Proposition 65 - Developmental Toxicity</b>               |            |   |
| •Vinyl Toluene   | 25013-15-4 | Not Listed  |
| •Cobalt 2-Ethylhexanoate   | 136-52-7   | Not Listed  |

|  |            |            |
|--|------------|------------|
| •Styrene   | 100-42-5   | Not Listed |
| <b>U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)</b> |            |            |
| •Vinyl Toluene   | 25013-15-4 | Not Listed |
| •Cobalt 2-Ethylhexanoate   | 136-52-7   | Not Listed |
| •Styrene   | 100-42-5   | Not Listed |
| <b>U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)</b>    |            |            |
| •Vinyl Toluene   | 25013-15-4 | Not Listed |
| •Cobalt 2-Ethylhexanoate   | 136-52-7   | Not Listed |
| •Styrene   | 100-42-5   | Not Listed |
| <b>U.S. - California - Proposition 65 - Reproductive Toxicity - Female</b>       |            |            |
| •Vinyl Toluene   | 25013-15-4 | Not Listed |
| •Cobalt 2-Ethylhexanoate   | 136-52-7   | Not Listed |
| •Styrene   | 100-42-5   | Not Listed |
| <b>U.S. - California - Proposition 65 - Reproductive Toxicity - Male</b>         |            |            |
| •Vinyl Toluene   | 25013-15-4 | Not Listed |
| •Cobalt 2-Ethylhexanoate   | 136-52-7   | Not Listed |
| •Styrene   | 100-42-5   | Not Listed |

## Section 16 - Other Information

|  |   |
|--|---|
| <b>Last Revision Date</b>                | • 11/January/2016   |
| <b>Preparation Date</b>                  | • 07/October/2013   |
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### Key to abbreviations

NDA = No Data Available