**Safety Data Sheet**

## Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

### 1.1 Product identifier

**Product Name** • **Polyvinyl Toluene & Organic fluors, Quenched**

**Synonyms** • Plastic Scintillators, Quenched

**Product Code** • BC-408Q; BC-4225; BC-422Q; BC-422Q3; BC-422Q5; BC-480; BC-482; BC-482A; BC-482A5X; BC-484; BC-487; BC-49975; BC-49976; BC-49987; BC-49989

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Relevant identified use(s)** • Radiation detection

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

**Manufacturer** • Luxium Solutions

17900 Great Lakes Parkway
Hiram, OH 44234
United States
www.luxiumsolutions.com

**Telephone (General)** • 440-834-5600

### 1.4 Emergency telephone number

**Contract #** 6493674

**U.S. & Canada** • 1-800-255-3924 – VelocityEHS

**International** • +1-813-248-0585 – VelocityEHS

## Section 2: Hazards Identification

### EU/EEC

**According to: Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]**
**According to: EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)**

### 2.1 Classification of the substance or mixture

**CLP** • Not classified

**DSD/DPD** • Not classified

### 2.2 Label Elements

**CLP**

**Hazard statements** • No label element(s) required

**DSD/DPD**

**Risk phrases** • No label element(s) required

### 2.3 Other Hazards

**CLP**
- According to Regulation (EC) No. 1272/2008 (CLP) this material is not considered hazardous.

**DSD/DPD**
- According to European Directive 1999/45/EC this preparation is not considered dangerous.

## United States (US)

**According to: OSHA 29 CFR 1910.1200 HCS**

### 2.1 Classification of the substance or mixture

**OSHA HCS 2012**
- Not classified

### 2.2 Label elements

**OSHA HCS 2012**

**Hazard statements**
- No label element(s) required

### 2.3 Other hazards

**OSHA HCS 2012**
- This product is not considered hazardous under the U.S. OSHA 29 CFR 1910.1200 Hazard Communication Standard.

## Canada

**According to: WHMIS**

### 2.1 Classification of the substance or mixture

**WHMIS**
- Not classified

### 2.2 Label elements

**WHMIS**
- No label element(s) required.

### 2.3 Other hazards

**WHMIS**
- In Canada, the product mentioned above is not considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

## Section 3 - Composition/Information on Ingredients

### 3.1 Substances

- Material does not meet the criteria of a substance in accordance with Regulation (EC) No 1272/2008.

### 3.2 Mixtures

| Composition | | | | | |
|---|---|---|---|---|---|
| **Chemical Name** | **Identifiers** | **%** | **LD50/LC50** | **Classifications According to Regulation/Directive** | **Comments** |
| Vinyl toluene | **CAS:**25013-15-4 **EINECS:**246-562-2 | 90.4624% TO 99.9406% | Ingestion/Oral-Rat LD50 • 2255 mg/kg | **EU DSD/DPD:** Xi; R36/37/38; R67 **EU CLP:** Flam. Liq. 3, H226; Skin Irrit. 2, H315; STOT SE 3: Resp. Irrit., H335; STOT SE 3: Narc., H336 **OSHA HCS 2012:** Flam. Liq. 3; Eye Irrit. 2; Skin Irrit 2; STOT SE 3: Resp. Irrit. & Narc. | NDA |

| | | | | | |
|---|---|---|---|---|---|
| Organic fluors | *Proprietary* | 0% TO 5.0741% | NDA | **EU DSD/DPD:** Not Classified<br>**EU CLP:** Not Classified<br>**OSHA HCS 2012:** Not Classified | NDA |
| Organic fluors | *Proprietary* | 0.009% TO 4.6346% | Ingestion/Oral-Rat LD50 • >10 g/kg<br>Skin-Rabbit LD50 • 3535 mg/kg | **EU DSD/DPD:** Repr. Cat. 3; R62; Xn; R48/21; Carc. Cat. 3; R40; N; R51-53<br>**EU CLP:** Repr. 2, H361; STOT RE 2 (Kidney, Liver), H373; Carc. 2, H351; Aquatic Acute 2, H411<br>**OSHA HCS 2012:** Repr. 2; STOT RE 2 (Kidney, Liver); Carc. 2 | NDA |
| Organic fluors | *Proprietary* | 0% TO 1.6509% | NDA | **EU DSD/DPD:** Xn; R22<br>**EU CLP:** Acute Tox. 4, H302<br>**OSHA HCS 2012:** Acute Tox. 4 (orl) | NDA |
| Organic fluors | *Proprietary* | 0% TO 0.108% | NDA | **EU DSD/DPD:** Not Classified<br>**EU CLP:** Not Classified<br>**OSHA HCS 2012:** Not Classified | NDA |
| Organic fluors | *Proprietary* | 0.0304% TO 0.0336% | Ingestion/Oral-Rat LD50 • 890 mg/kg | **EU CLP:** Community workplace exposure limit<br>**OSHA HCS 2012:** Exposure limits | NDA |
| Organic fluors | *Proprietary* | 0% TO 0.0111% | Ingestion/Oral-Rat LD50 • >10 g/kg | **EU CLP:** Community workplace exposure limit<br>**OSHA HCS 2012:** Exposure limits | NDA |

*See Section 16 for full text of H-statements and R-phrases.*

## Section 4 - First Aid Measures

### 4.1 Description of first aid measures

**Inhalation**
- Move victim to fresh air. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult. If signs/symptoms continue, get medical attention.

**Skin**
- Wash skin with soap and water. If irritation develops and persists, get medical attention.

**Eye**
- Flush eyes with water for at least 15 minutes while holding eyelids open. If eye irritation persists: Get medical advice/attention.

**Ingestion**
- Obtain medical attention immediately if ingested.

### 4.2 Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

### 4.3 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 - Firefighting Measures

### 5.1 Extinguishing media

**Suitable Extinguishing Media**
- Carbon dioxide, Dry chemical or Foam.

**Unsuitable Extinguishing Media**
- No data available.

### 5.2 Special hazards arising from the substance or mixture

**Unusual Fire and Explosion Hazards**
- None known.

**Hazardous Combustion Products**
- Plastic will burn and produce noxious smoke.

### 5.3 Advice for firefighters

- Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.

## Section 6 - Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

**Personal Precautions**
- Ventilate the area before entry. Do not walk through spilled material. Wear appropriate personal protective equipment, avoid direct contact.

**Emergency Procedures**
- As an immediate precautionary measure, isolate spill or leak area for at least 25 meters (75 feet) in all directions. Keep unauthorized personnel away.

### 6.2 Environmental precautions

- Avoid release to the environment.

### 6.3 Methods and material for containment and cleaning up

**Containment/Clean-up Measures**
- Avoid generating dust.
  SMALL DRY SPILLS: With clean shovel place material into clean, dry container and cover loosely; move containers from spill area.
  LARGE SPILLS: Cover powder spill with plastic sheet or tarp to minimize spreading.

### 6.4 Reference to other sections

- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

## Section 7 - Handling and Storage

### 7.1 Precautions for safe handling

**Handling**
- Use only with adequate ventilation. Minimize dust generation and accumulation. Wear appropriate personal protective equipment, avoid direct contact. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

### 7.2 Conditions for safe storage, including any incompatibilities

**Storage**
- Store in a cool, dry, well ventilated area.

### 7.3 Specific end use(s)

- Refer to Section 1.2 - Relevant identified uses.

## Section 8 - Exposure Controls/Personal Protection

### 8.1 Control parameters

| Exposure Limits/Guidelines | | | | |
|---|---|---|---|---|
| | **Result** | **ACGIH** | **NIOSH** | **OSHA** |
| Organic fluors (Proprietary) | Ceilings | Not established | 0.5 ppm Ceiling; 5 mg/m3 Ceiling | Not established |
| Zinc stearate (557-05-1) | TWAs | Not established | 10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust) | 15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction) |
| Organic fluors (Proprietary) | TWAs | 2 mg/m3 TWA (inhalable fraction and vapor) | 10 mg/m3 TWA | Not established |
| Vinyl toluene (25013-15-4) | TWAs | 50 ppm TWA | 100 ppm TWA; 480 mg/m3 TWA | 100 ppm TWA; 480 mg/m3 TWA |
| | STELs | 100 ppm STEL | Not established | Not established |

**Exposure Control Notations**

**ACGIH**

- Vinyl toluene (25013-15-4): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen)

•Organic fluors (Proprietary): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen)

**Exposure Limits Supplemental**
**ACGIH**
•Vinyl toluene (25013-15-4): **TLV Basis - Critical Effects:** (eye and upper respiratory tract irritation)
•Organic fluors (Proprietary): **TLV Basis - Critical Effects:** (upper respiratory tract irritation)

## 8.2 Exposure controls

**Engineering Measures/Controls**
- Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values. Ensure that dust handling systems (such as exhaust ducts, dust collectors, vessels and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is not leakage from the equipment).

**Personal Protective Equipment**

**Respiratory**
- For limited exposure use an N95 dust mask. For prolonged exposure use an air-purifying respirator with high efficiency particulate air (HEPA) filters. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 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**
- 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
TLV = Threshold Limit Value determined by the American Conference of Governmental Industrial Hygienists (ACGIH)
TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

# Section 9 - Physical and Chemical Properties

## 9.1 Information on Basic Physical and Chemical Properties

| | | | |
|---|---|---|---|
| **Material Description** | | | |
| Physical Form | Solid | Appearance/Description | Clear, fluorescent solid plastic, with no odor. |
| Color | Clear, fluorescent. | Odor | No odor. |
| Odor Threshold | Data lacking | | |
| **General Properties** | | | |
| Boiling Point | Data lacking | Melting Point/Freezing Point | Data lacking |
| Decomposition Temperature | Data lacking | pH | Data lacking |
| Specific Gravity/Relative Density | = 1.03 Water=1 | Water Solubility | Data lacking |
| Viscosity | Data lacking | Explosive Properties | Data lacking |
| Oxidizing Properties: | Data lacking | | |
| **Volatility** | | | |
| Vapor Pressure | Data lacking | Vapor Density | Data lacking |
| Evaporation Rate | Data lacking | | |
| **Flammability** | | | |
| Flash Point | Data lacking | UEL | Data lacking |
| LEL | Data lacking | Autoignition | Data lacking |
| Flammability (solid, gas) | Data lacking | | |

| Environmental | | | |
|---|---|---|---|
| Octanol/Water Partition coefficient | Data lacking | | |

## 9.2 Other Information

- No additional physical and chemical parameters noted.

# Section 10: Stability and Reactivity

## 10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

## 10.2 Chemical stability

- Stable under normal temperatures and pressures.

## 10.3 Possibility of hazardous reactions

- Hazardous polymerization not indicated.

## 10.4 Conditions to avoid

- Temperatures over 300º C.

## 10.5 Incompatible materials

- No data available

## 10.6 Hazardous decomposition products

- Carbon dioxide and carbon monoxide, hydrocarbons.

# Section 11 - Toxicological Information

## 11.1 Information on toxicological effects

| Components | | |
|---|---|---|
| Vinyl toluene (90.4624% TO 99.9406%) | 25013-15-4 | **Acute Toxicity:** Ingestion/Oral-Rat LD50 • 2255 mg/kg; *Sense Organs and Special Senses:Eye*:**Lacrimation**; *Behavioral*:**Somnolence (general depressed activity)**; *Skin and Appendages:Other*:**Hair**; **Irritation:** Eye-Rabbit • 90 mg • Mild irritation; Skin-Rabbit • 100 % • Moderate irritation |
| Organic fluors (0% TO 1.6509%) | *Proprietary* | **Acute Toxicity:** Ingestion/Oral-Rat LD50 • 1000 mg/kg; *Liver*:**Changes in liver weight**; **Multi-dose Toxicity:** Ingestion/Oral-Rat TDLo • 1680 mg/kg 14 Day(s)-Continuous; *Blood*:**Changes in serum composition (e.g., TP, bilirubin cholesterol)**; *Biochemical:Metabolism (intermediary)*:**Lipids, including transport** |
| Organic fluors (0.009% TO 4.6346%) | *Proprietary* | **Acute Toxicity:** Ingestion/Oral-Mouse LD50 • 2895 mg/kg; *Behavioral*:**Somnolence (general depressed activity)**; *Behavioral*:**Tremor**; *Lungs, Thorax, or Respiration*:**Other changes**; Ingestion/Oral-Rat LD50 • >10 g/kg; Skin-Rabbit LD50 • 3535 mg/kg; **Multi-dose Toxicity:** Ingestion/Oral-Mouse TDLo • 29400 mg/kg 105 Week(s)-Continuous; *Liver*:**Tumors**; *Kidney, Ureter, and Bladder*:**Changes in tubules (including acute renal failure, acute tubular necrosis)**; *Blood*:**Changes in spleen**; Ingestion/Oral-Rat TDLo • 22050 mg/kg 105 Week(s)-Continuous; *Kidney, Ureter, and Bladder*:**Kidney tumors**; Ingestion/Oral-Rat TDLo • 7350 mg/kg 14 Week(s)-Continuous; *Liver*:**Changes in liver weight**; *Kidney, Ureter, and Bladder*:**Changes in tubules (including acute renal failure, acute tubular necrosis)**; *Biochemical:Enzyme inhibition, induction, or change in blood or tissue levels*:**Phosphatases**; Inhalation-Guinea Pig TDLo • 75 mg/kg 15 Day(s)-Intermittent; *Liver*:**Other changes**; *Liver*:**Hepatitis, fibrous (cirrhosis, post-necrotic scarring)**; **Mutagen:** DNA damage • Unreported Route-Human • Ascites tumor (Somatic cell) • 10 mg/L 2 Hour(s); **Reproductive:** Ingestion/Oral-Rabbit TDLo • 600 mg/kg (6-29D preg); *Reproductive Effects:Maternal Effects*:**Parturition**; *Reproductive Effects:Effects on Fertility*:**Abortion** |

| GHS Properties | Classification |
|---|---|
| **Acute toxicity** | **EU/CLP** • Data lacking<br>**OSHA HCS 2012** • Data lacking |
| **Skin corrosion/Irritation** | **EU/CLP** • Data lacking<br>**OSHA HCS 2012** • Data lacking |
| **Serious eye damage/Irritation** | **EU/CLP** • Data lacking<br>**OSHA HCS 2012** • Data lacking |
| **Skin sensitization** | **EU/CLP** • Data lacking<br>**OSHA HCS 2012** • Data lacking |
| **Respiratory sensitization** | **EU/CLP** • Data lacking<br>**OSHA HCS 2012** • Data lacking |
| **Aspiration Hazard** | **EU/CLP** • Data lacking<br>**OSHA HCS 2012** • Data lacking |
| **Carcinogenicity** | **EU/CLP** • Data lacking<br>**OSHA HCS 2012** • Data lacking |
| **Germ Cell Mutagenicity** | **EU/CLP** • Data lacking<br>**OSHA HCS 2012** • Data lacking |
| **Toxicity for Reproduction** | **EU/CLP** • Data lacking<br>**OSHA HCS 2012** • Data lacking |
| **STOT-SE** | **EU/CLP** • Data lacking<br>**OSHA HCS 2012** • Data lacking |
| **STOT-RE** | **EU/CLP** • Data lacking<br>**OSHA HCS 2012** • Data lacking |

## Potential Health Effects

### Inhalation

**Acute (Immediate)**
- Processes such as cutting, grinding, crushing, or impact may result in generation of excessive amounts of airborne dusts in the workplace. Nuisance dust may affect the lungs but reactions are typically reversible.

**Chronic (Delayed)**
- Repeated and prolonged exposure to dust may cause lung effects including pneumoconiosis.

### Skin

**Acute (Immediate)**
- Exposure to dust may cause mechanical irritation.

**Chronic (Delayed)**
- No data available.

### Eye

**Acute (Immediate)**
- Exposure to dust may cause mechanical irritation. Excessive concentrations of nuisance dust in the workplace may reduce visibility and may cause unpleasant deposits in eyes.

**Chronic (Delayed)**
- No data available.

### Ingestion

**Acute (Immediate)**
- Excessive concentrations of nuisance dust in the workplace may cause mechanical irritation to mucous membranes.

**Chronic (Delayed)**
- No data available.

**Carcinogenic Effects**
- This product contains a component that is possibly carcinogenic to humans. However, this ingredient is bound within the product matrix and exposure to it unlikley under normal conditions.

| Carcinogenic Effects | | |
|---|---|---|
| | **CAS** | **IARC** |

| | | |
|---|---|---|
| Organic fluors | Proprietary | Group 2B-Possible Carcinogen |

**Key to abbreviations**
LD = Lethal Dose
TD = Toxic Dose

## Section 12 - Ecological Information

### 12.1 Toxicity

- Material data lacking.

### 12.2 Persistence and degradability

- Material data lacking.

### 12.3 Bioaccumulative potential

- Material data lacking.

### 12.4 Mobility in Soil

- Material data lacking.

### 12.5 Results of PBT and vPvB assessment

- No PBT and vPvB assessment has been conducted.

### 12.6 Other adverse effects

- No studies have been found.

## Section 13 - Disposal Considerations

### 13.1 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

| | 14.1 UN number | 14.2 UN proper shipping name | 14.3 Transport hazard class(es) | 14.4 Packing group | 14.5 Environmental hazards |
|---|---|---|---|---|---|
| **DOT** | NDA | Not Regulated | NDA | NDA | NDA |
| **TDG** | NDA | Not Regulated | NDA | NDA | NDA |
| **IMO/IMDG** | NDA | Not Regulated | NDA | NDA | NDA |
| **IATA/ICAO** | NDA | Not Regulated | NDA | NDA | NDA |

**14.6 Special precautions for user**
- None specified.

**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**
- Data lacking.

## Section 15 - Regulatory Information

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

**SARA Hazard Classifications** • None

| Inventory | | | | | | |
|---|---|---|---|---|---|---|
| **Component** | **CAS** | **Canada DSL** | **Canada NDSL** | **EU EINECS** | **EU ELNICS** | **TSCA** |
| Organic fluors | *Proprietary* | Yes | No | Yes | No | Yes |
| Organic fluors | *Proprietary* | Yes | No | Yes | No | Yes |
| Organic fluors | *Proprietary* | Yes | No | Yes | No | Yes |
| Organic fluors | *Proprietary* | No | Yes | Yes | No | Yes |
| Organic fluors | *Proprietary* | Yes | No | Yes | No | Yes |
| Vinyl toluene | 25013-15-4 | Yes | No | Yes | No | Yes |

## Canada

### Labor

**Canada - WHMIS - Classifications of Substances**

| | | |
|---|---|---|
| • Vinyl toluene | 25013-15-4 | B3, D2B |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |

**Canada - WHMIS - Ingredient Disclosure List**

| | | |
|---|---|---|
| • Vinyl toluene | 25013-15-4 | 1 % |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | 1 % |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |

### Environment

**Canada - CEPA - Priority Substances List**

| | | |
|---|---|---|
| • Vinyl toluene | 25013-15-4 | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |

## United States

### Labor

**U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals**

| | | |
|---|---|---|
| • Vinyl toluene | 25013-15-4 | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |

**U.S. - OSHA - Specifically Regulated Chemicals**

| | | |
|---|---|---|
| • Vinyl toluene | 25013-15-4 | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |

## Environment

**U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants**

| | | |
|---|---|---|
| • Vinyl toluene | 25013-15-4 | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |

**U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities**

| | | |
|---|---|---|
| • Vinyl toluene | 25013-15-4 | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |

**U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities**

| | | |
|---|---|---|
| • Vinyl toluene | 25013-15-4 | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |

**U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs**

| | | |
|---|---|---|
| • Vinyl toluene | 25013-15-4 | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |

**U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs**

| | | |
|---|---|---|
| • Vinyl toluene | 25013-15-4 | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |

**U.S. - CERCLA/SARA - Section 313 - Emission Reporting**

| | | |
|---|---|---|
| • Vinyl toluene | 25013-15-4 | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |

**U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing**

| | | |
|---|---|---|
| • Vinyl toluene | 25013-15-4 | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |

## United States - California

### Environment

**U.S. - California - Proposition 65 - Carcinogens List**

| | | |
|---|---|---|
| • Vinyl toluene | 25013-15-4 | Not Listed |
| • Organic fluors | *Proprietary* | carcinogen, initial date 6/22/12 |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |

**U.S. - California - Proposition 65 - Developmental Toxicity**

| | | |
|---|---|---|
| • Vinyl toluene | 25013-15-4 | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |

**U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)**

| | | |
|---|---|---|
| • Vinyl toluene | 25013-15-4 | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |

**U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)**

| | | |
|---|---|---|
| • Vinyl toluene | 25013-15-4 | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |

**U.S. - California - Proposition 65 - Reproductive Toxicity - Female**

| | | |
|---|---|---|
| • Vinyl toluene | 25013-15-4 | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |

**U.S. - California - Proposition 65 - Reproductive Toxicity - Male**

| | | |
|---|---|---|
| • Vinyl toluene | 25013-15-4 | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |

| | | |
|---|---|---|
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |
| • Organic fluors | *Proprietary* | Not Listed |

## 15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

## 15.3 Other Information

- WARNING: This product contains a chemical known to the State of California to cause cancer.

## Section 16 - Other Information

**Relevant Phrases (code & full text)**

- H226 - Flammable liquid and vapour
  H302 - Harmful if swallowed
  H315 - Causes skin irritation
  H335 - May cause respiratory irritation
  H336 - May cause drowsiness or dizziness
  H351 - Suspected of causing cancer.
  H361 - Suspected of damaging fertility or the unborn child.
  H373 - May cause damage to organs through prolonged or repeated exposure.
  H411 - Toxic to aquatic life with long lasting effects

  R22 - Harmful if swallowed.
  R36/37/38 - Irritating to eyes, respiratory system and skin.
  R40 - Limited evidence of a carcinogenic effect.
  R48/21 - Harmful: danger of serious damage to health by prolonged exposure in contact with skin.
  R51 - Toxic to aquatic organisms.
  R53 - May cause long-term adverse effects in the aquatic environment.
  R62 - Possible risk of impaired fertility.
  R67 - Vapours may cause drowsiness and dizziness.

**Revision Date**

- 23/May/2023

**Preparation Date**

- 27/March/2015

**Disclaimer/Statement of Liability**

- Reasonable care has been taken in the preparation of this information, but the supplier gives no warranty of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser will make his own tests to determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental and/or consequential property damage arising out of the use of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights. Read the Safety Data Sheet before handling product.

**Key to abbreviations**

NDA = No data available