



## Safety Data Sheet

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

#### 1.1 Product identifier

- Product Name** • Plastic Scintillators with lead
- Product Code** • BC-452; BC-4522; BC-4525; BC-452510

#### 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** • Contains Lead! Dusts generated by further processing (grinding, sanding or polishing) can be a source of lead exposure. The hazards represented below are based on exposure to the lead ingredient.  
 Acute Toxicity Inhalation 4 - H332  
 Carcinogenicity 1B - H350  
 Reproductive Toxicity 1A - H360Df  
 Specific Target Organ Toxicity Repeated Exposure 2 - H373  
 Hazardous to the aquatic environment Chronic 2 - H411
- DSD/DPD** • Contains Lead! Dusts generated by further processing (grinding, sanding or polishing) can be a source of lead exposure. The hazards represented below are based on exposure to the lead ingredient.  
 Harmful (Xn)

Carcinogenic Substances - Category 2  
 Substances Toxic To Reproduction - Category 1  
 Substances Toxic To Reproduction - Category 3  
 Dangerous to the Environment (N)  
 R20/22, R33, R49, R51, R53, R61, R62

## 2.2 Label Elements

### CLP

#### DANGER



- Hazard statements •** H332 - Harmful if inhaled  
 H350 - May cause cancer.  
 H360Df - May damage the unborn child. Suspected of damaging fertility.  
 H373 - May cause damage to organs through prolonged or repeated exposure.  
 H411 - Toxic to aquatic life with long lasting effects

### Precautionary statements

- Prevention •** P201 - Obtain special instructions before use.  
 P202 - Do not handle until all safety precautions have been read and understood.  
 P260 - Do not breathe dust.  
 P271 - Use only outdoors or in a well-ventilated area.  
 P273 - Avoid release to the environment.  
 P281 - Use personal protective equipment as required.
- Response •** P391 - Collect spillage.  
 P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P312 - Call a POISON CENTER or doctor/physician if you feel unwell.  
 P308+P313 - IF exposed or concerned: Get medical advice/attention.
- Storage/Disposal •** P405 - Store locked up.  
 P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
- Supplemental information •** 89.3315 - 98.9481 percent of this product consists of an ingredient of unknown toxicity.

### DSD/DPD



- Risk phrases •** R20/22 - Harmful by inhalation and if swallowed.  
 R33 - Danger of cumulative effects.  
 R49 - May cause cancer by inhalation.  
 R51 - Toxic to aquatic organisms.  
 R53 - May cause long-term adverse effects in the aquatic environment.  
 R61 - May cause harm to the unborn child.  
 R62 - Possible risk of impaired fertility.
- Safety phrases •** S37 - Wear suitable gloves.  
 S53 - Avoid exposure - obtain special instructions before use.  
 S57 - Use appropriate containment to avoid environmental contamination.

## 2.3 Other Hazards

### CLP

- According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.

### DSD/DPD

- According to European Directive 1999/45/EC this material is considered dangerous.

## United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

## 2.1 Classification of the substance or mixture

### OSHA HCS 2012

- Contains Lead! Dusts generated by further processing (grinding, sanding or polishing) can be a source of lead exposure. The hazards represented below are based on exposure to the lead ingredient.  
Carcinogenicity 1B  
Reproductive Toxicity 1A  
Specific Target Organ Toxicity Repeated Exposure 2

## 2.2 Label elements

### OSHA HCS 2012

#### DANGER



- Hazard statements**
- May cause cancer.
  - May damage fertility or the unborn child.
  - May cause damage to organs through prolonged or repeated exposure.

#### Precautionary statements

- Prevention**
- Obtain special instructions before use.
  - Do not handle until all safety precautions have been read and understood.
  - Do not breathe dust.
  - Wear protective gloves, clothing, and eye/face protection, .
- Response**
- IF exposed or concerned: Get medical advice/attention.
- Storage/Disposal**
- Store locked up.
  - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

## 2.3 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

## 2.1 Classification of the substance or mixture

### WHMIS

- Contains Lead! Dusts generated by further processing (grinding, sanding or polishing) can be a source of lead exposure. The hazards represented below are based on exposure to the lead ingredient.  
Other Toxic Effects - D2A

## 2.2 Label elements

### WHMIS



- Other Toxic Effects - D2A

### WHMIS

## 2.3 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

### 3.1 Substances

- Material does not meet the criteria of a substance.

### 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	77.3925% TO 95.2655%	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
Lead	CAS:1317-36-8 EINECS:215-267-0	1.0519% TO 10.6658%	NDA	EU DSD/DPD: Annex VI, Table 3.2: Repr. Cat. 1; R61; Repr. Cat. 3; R62; Xn; R20/22; R33; N; R50-53; Carc 2; R49 EU CLP: Annex VI, Table 3.1: Carc. 1B, H350; Repr. 1A, H360DF; Acute Tox. 4*, H332; Acute Tox. 4*, H302; STOT RE 2*, H373; Aquatic Acute 1, H400; Aquatic Chronic 1, H410 OSHA HCS 2012: STOT RE 2 (Kidney, Blood, Brain, Nervous System); Carc. 1B; Repr. 1A;	NDA
Organic Fluors	Proprietary	0.3648% TO 3.7015%	NDA	EU DSD/DPD: T; R24 EU CLP: Acute Tox. 3, H311 OSHA HCS 2012: Acute Tox. 3 (skn)	NDA
Organic Fluors	Proprietary	0.3211% TO 3.2543%	Ingestion/Oral-Rat LD50 • 900 mg/kg Skin-Rabbit LD50 • 3160 mg/kg	EU DSD/DPD: Xn; R22; Xi; R36/38 EU CLP: Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319 OSHA HCS 2012: Flam. Liq. 4; Acute Tox. 4 (orl); Skin Irrit. 2; Eye Irrit. 2	NDA
Organic Fluors	Proprietary	2.1666% TO 2.8608%	NDA	EU DSD/DPD: Not Classified EU CLP: Not Classified OSHA HCS 2012: Not Classified	NDA
Organic Fluors	Proprietary	0.271% TO 2.7438%	NDA	EU DSD/DPD: Annex VI, Table 3.2: Xn; R21/22; C; R35 EU CLP: Annex VI, Table 3.1: Acute Tox. 3 *, H311; Acute Tox. 4 *, H302 OSHA HCS 2012: Skin Corr. 1B; Eye Dam. 1; Acute Tox. 3 (skn); Acute Tox. 4 (orl)	NDA
Organic Fluors	Proprietary	0.026% TO 0.032%	Ingestion/Oral-Rat LD50 • 890 mg/kg	EU CLP: Community workplace exposure limit OSHA HCS 2012: Exposure limits	NDA
Organic Fluors	Proprietary	0% TO 0.0035%	Ingestion/Oral-Rat LD50 • >10 g/kg	EU CLP: Community workplace exposure limit OSHA HCS 2012: Exposure limits	NDA

## 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. Get medical attention.

#### Skin

- In case of contact with substance, immediately flush skin with running water for at least 20 minutes. If skin irritation occurs: Get medical advice/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

- Rinse mouth. Do not give anything by mouth to an unconscious person.

## 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** • Water spray, carbon dioxide, foam or dry chemical.

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

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

**Unusual Fire and Explosion Hazards** • Material is non-combustible and is not expected to pose a fire or explosion hazard. May emit toxic fumes when exposed to high heat.

**Hazardous Combustion Products** • No data available

### 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. 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 25 meters (75 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. 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. Wear appropriate personal protective equipment, avoid direct contact. Avoid contact with skin, eyes or clothing. Do not breathe dust. 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

- Keep container tightly closed. Store in a cool, dry, well-ventilated place.

## 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)	TWAs	Not established	10 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup> TWA (respirable dust)	15 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup> TWA (respirable fraction)
Organic Fluors (Proprietary)	TWAs	2 mg/m <sup>3</sup> TWA (inhalable fraction and vapor)	10 mg/m <sup>3</sup> TWA	Not established
Organic Fluors (Proprietary)	TWAs	20 ppm TWA	20 ppm TWA; 70 mg/m <sup>3</sup> TWA	Not established
Lead	TWAs	Not established	0.050 mg/m <sup>3</sup> TWA (as Pb) <i>as Lead compounds</i>	Not established
Vinyl toluene (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

### 8.2 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.

#### 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.

#### Environmental Exposure Controls

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

#### Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

NIOSH = National Institute of Occupational Safety and Health

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

## Section 9 - Physical and Chemical Properties

### 9.1 Information on Basic Physical and Chemical Properties

<b>Material Description</b>			
Physical Form	Solid	Appearance/Description	Clear, blue, fluorescent plastic.
Color	Clear, blue.	Odor	Data lacking
Odor Threshold	Data lacking		
<b>General Properties</b>			
Boiling Point	Data lacking	Melting Point/Freezing Point	Data lacking
Decomposition Temperature	Data lacking	pH	Data lacking
Specific Gravity/Relative Density	> 1 Water=1	Water Solubility	Data lacking
Viscosity	Data lacking	Explosive Properties	Data lacking
Oxidizing Properties:	Data lacking		
<b>Volatility</b>			
Vapor Pressure	Data lacking	Vapor Density	Data lacking
Evaporation Rate	Data lacking		
<b>Flammability</b>			
Flash Point	Data lacking	UEL	Data lacking
LEL	Data lacking	Autoignition	Data lacking
Flammability (solid, gas)	Data lacking		
<b>Environmental</b>			
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

### 10.3 Possibility of hazardous reactions

- Hazardous polymerization will not occur.

### 10.4 Conditions to avoid

- Temperatures over 300 degrees.

### 10.5 Incompatible materials

- No data available

### 10.6 Hazardous decomposition products

- Toxic fumes of carbon monoxide carbon dioxide, lead, lead oxides.

## Section 11 - Toxicological Information

### 11.1 Information on toxicological effects

#### Other Material Information

- Contains Lead! Dusts generated by further processing (grinding, sanding or polishing) can be a source of lead exposure. The hazards represented below are based on exposure to the lead ingredient.

Components		
Vinyl toluene (77.3925% TO 95.2655%)	25013-15-4	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 2255 mg/kg; <i>Sense Organs and Special Senses:Eye: Lacrimation; Behavioral:Somnolence (general depressed activity); Skin and Appendages:Other:Hair; Irritation:</i> Eye-Rabbit • 90 mg • Mild irritation; Skin-Rabbit • 100 % • Moderate irritation
Lead (1.0519% TO 10.6658%)	1317-36-8	<b>Irritation:</b> Skin-Rabbit • 100 mg 24 Hour(s) • Mild irritation; <b>Multi-dose Toxicity:</b> Inhalation-Rat TClO • 10 µg/m <sup>3</sup> 24 Hour(s) 22 Week(s)-Continuous; <i>Brain and Coverings:Recordings from specific areas of CNS; Blood:Changes in bone marrow not included above; Biochemical:Enzyme inhibition, induction, or change in blood or tissue levels:True cholinesterase; Reproductive:</i> Ingestion/Oral-Mouse TDLo • 1750 mg/kg (5W male); <i>Reproductive Effects:Paternal Effects:Spermatogenesis; Reproductive Effects:Paternal Effects:Testes, epididymis, sperm duct</i>
Organic Fluors (0.3211% TO 3.2543%)	Proprietary	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 900 mg/kg; Skin-Rabbit LD50 • 3160 mg/kg; <i>Lungs, Thorax, or Respiration:Acute pulmonary edema; Liver:Other changes; Kidney, Ureter, and Bladder:Other changes; Multi-dose Toxicity:</i> Skin-Rabbit TDLo • 300 mg/kg 14 Day(s)-Continuous; <i>Skin and Appendages:After topical exposure:Primary irritation; Tumorigen / Carcinogen:</i> Skin-Mouse TDLo • 188 mg/kg 47 Week(s)-Intermittent; <i>Tumorigenic:Equivocal tumorigenic agent by RTECS criteria; Lungs, Thorax, or Respiration:Tumors; Skin and Appendages:Other:Tumors</i>
Organic Fluors (0.3648% TO 3.7015%)	Proprietary	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 2200 mg/kg; Skin-Rabbit LD50 • 520 µL/kg
Organic Fluors (0.271% TO 2.7438%)	Proprietary	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 1060 mg/kg; Skin-Rabbit LD50 • 500 mg/kg

GHS Properties	Classification
<b>Acute toxicity</b>	EU/CLP • Acute Toxicity - Inhalation 4 - ATEmix (Inhl) = 1.5 mg/l OSHA HCS 2012 • Data lacking
<b>Skin corrosion/Irritation</b>	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
<b>Serious eye damage/Irritation</b>	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
<b>Skin sensitization</b>	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
<b>Respiratory sensitization</b>	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
<b>Aspiration Hazard</b>	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
<b>Carcinogenicity</b>	EU/CLP • Carcinogenicity 1B OSHA HCS 2012 • Carcinogenicity 1B
<b>Germ Cell Mutagenicity</b>	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
<b>Toxicity for Reproduction</b>	EU/CLP • Toxic to Reproduction 1A OSHA HCS 2012 • Toxic to Reproduction 1A
<b>STOT-SE</b>	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
<b>STOT-RE</b>	EU/CLP • Specific Target Organ Toxicity Repeated Exposure 2 OSHA HCS 2012 • Specific Target Organ Toxicity Repeated Exposure 2

## Potential Health Effects



**Inhalation**

- Acute (Immediate)** • Harmful if inhaled.
- Chronic (Delayed)** • No data available

**Skin**

- Acute (Immediate)** • Dust from this product may cause mechanical irritation.
- Chronic (Delayed)** • No data available

**Eye**

- Acute (Immediate)** • 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 dust in the workplace may cause mechanical irritation to mucous membranes.
- Chronic (Delayed)** • No data available

**Other**

- Chronic (Delayed)** • May cause damage to organs through prolonged or repeated exposure. The onset of symptoms of chronic lead poisoning often is gradual. The major organ systems affected re the nervous system, red blood cells, and kidneys; Anemia is an early indication of chronic exposure to lead.

**Carcinogenic Effects**

- May cause cancer.

Carcinogenic Effects			
	CAS	IARC	NTP
Lead	1317-36-8	Group 2A-Probable Carcinogen	Not Listed
Lead as Lead compounds	NDA	Not Listed	Reasonably Anticipated to be Human Carcinogen

**Reproductive Effects**

- May damage the unborn child. Suspected of damaging fertility.

**Section 12 - Ecological Information****12.1 Toxicity**

	CAS	
Plastic Scintillators with lead	NDA	<b>Aquatic Toxicity-Fish:</b> 96 Hour(s) <i>Fathead minnow - Pimephales promelas</i> 0.298 mg/L Comments: Lead 1317-36-8

- Toxic to aquatic life with long lasting effects.

**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

- Chronic

State Right To Know		
Component	CAS	PA
Organic Fluors	Proprietary	Yes
Organic Fluors	Proprietary	No
Organic Fluors	Proprietary	Yes
Lead	1317-36-8	No
Organic Fluors	Proprietary	Yes
Organic Fluors	Proprietary	No
Vinyl toluene	25013-15-4	Yes
Organic Fluors	Proprietary	Yes

Inventory						
Component	CAS	Canada DSL	Canada NDSL	EU EINECS	EU ELNICS	Korea KECL
Organic Fluors	Proprietary	Yes	No	Yes	No	Yes
Organic Fluors	Proprietary	No	Yes	Yes	No	No
Organic Fluors	Proprietary	Yes	No	Yes	No	Yes
Lead	1317-36-8	Yes	No	Yes	No	Yes
Organic Fluors	Proprietary	Yes	No	Yes	No	Yes

Organic Fluors	<i>Proprietary</i>	Yes	No	Yes	No	No
Vinyl toluene	25013-15-4	Yes	No	Yes	No	Yes
Organic Fluors	<i>Proprietary</i>	Yes	No	Yes	No	Yes
Inventory (Con't.)						
Component	CAS	TSCA				
Organic Fluors	<i>Proprietary</i>	Yes				
Organic Fluors	<i>Proprietary</i>	Yes				
Organic Fluors	<i>Proprietary</i>	Yes				
Lead	1317-36-8	Yes				
Organic Fluors	<i>Proprietary</i>	Yes				
Organic Fluors	<i>Proprietary</i>	Yes				
Vinyl toluene	25013-15-4	Yes				
Organic Fluors	<i>Proprietary</i>	Yes				

## Canada

### Labor

#### Canada - WHMIS - Classifications of Substances

• Vinyl toluene	25013-15-4	B3, D2B
• Lead	1317-36-8	D2A
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	B3, D1B, E, F
• Organic Fluors	<i>Proprietary</i>	Uncontrolled product according to WHMIS classification criteria
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed

#### Canada - WHMIS - Ingredient Disclosure List

• Vinyl toluene	25013-15-4	1 %
• Lead	1317-36-8	1 %
• Organic Fluors	<i>Proprietary</i>	1 %
• Organic Fluors	<i>Proprietary</i>	1 %
• Organic Fluors	<i>Proprietary</i>	1 %
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	1 %
• Organic Fluors	<i>Proprietary</i>	Not Listed

### Environment

#### Canada - CEPA - Priority Substances List

• Vinyl toluene	25013-15-4	Not Listed
• Lead	1317-36-8	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed

## United States

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

• Vinyl toluene	25013-15-4	Not Listed
• Lead	1317-36-8	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed

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

• Vinyl toluene	25013-15-4	Not Listed
• Lead	1317-36-8	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed

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

• Vinyl toluene	25013-15-4	Not Listed
• Lead	1317-36-8	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed

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

• Vinyl toluene	25013-15-4	Not Listed
• Lead	1317-36-8	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed

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

• Vinyl toluene	25013-15-4	Not Listed
• Lead	1317-36-8	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed

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

• Vinyl toluene	25013-15-4	Not Listed
• Lead	1317-36-8	Not Listed

• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed

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

• Vinyl toluene	25013-15-4	Not Listed
• Lead	1317-36-8	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed

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

• Vinyl toluene	25013-15-4	Not Listed
• Lead	1317-36-8	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed

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

• Vinyl toluene	25013-15-4	Not Listed
• Lead	1317-36-8	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed

**United States - California**

**Environment**

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

• Vinyl toluene	25013-15-4	Not Listed
• Lead	1317-36-8	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed

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

• Vinyl toluene	25013-15-4	Not Listed
• Lead	1317-36-8	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed

• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
<b>U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)</b>		
• Vinyl toluene	25013-15-4	Not Listed
• Lead	1317-36-8	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
<b>U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)</b>		
• Vinyl toluene	25013-15-4	Not Listed
• Lead	1317-36-8	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
<b>U.S. - California - Proposition 65 - Reproductive Toxicity - Female</b>		
• Vinyl toluene	25013-15-4	Not Listed
• Lead	1317-36-8	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
<b>U.S. - California - Proposition 65 - Reproductive Toxicity - Male</b>		
• Vinyl toluene	25013-15-4	Not Listed
• Lead	1317-36-8	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed

## United States - Pennsylvania

<b>Labor</b>		
<b>U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List</b>		
• Vinyl toluene	25013-15-4	Not Listed
• Lead	1317-36-8	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed

• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
<b>U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances</b>		
• Vinyl toluene	25013-15-4	Not Listed
• Lead	1317-36-8	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed
• Organic Fluors	<i>Proprietary</i>	Not Listed

## 15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

## 15.3 Other Information

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

## Section 16 - Other Information

### Revision Date

- 22/May/2023

### Preparation Date

- 01/June/2015

### Disclaimer/Statement of Liability

- Information presented herein has been compiled from sources considered to be dependable, and is accurate and reliable to the best of our knowledge and belief but is not guaranteed to be so. Since conditions of use are beyond our control, we make no warranties, expressed or implied, except those that may be contained in our written contract of sale or acknowledgement.

### Key to abbreviations

NDA = No data available