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 • Saint-Gobain Crystals

17900 Great Lakes Parkway
Hiram, OH 44234
United States
www.crystals.saint-gobain.com
scintillation@saint-gobain.com

Telephone (General) • 440-834-5600

1.4 Emergency telephone number

Manufacturer • 1-800-424-9300 - ChemTrec

Manufacturer • 703-525-3887 - Outside U.S.

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

-

WHMIS

- Other Toxic Effects - D2A

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/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
Organic Fluors (Proprietary)	TWAs	20 ppm TWA	20 ppm TWA; 70 mg/m3 TWA	Not established
Lead	TWAs	Not established	0.050 mg/m3 TWA (as Pb) *as Lead compounds*	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

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

Material Description			
Physical Form	Solid	Appearance/Description	Clear, blue, fluorescent plastic.
Color	Clear, blue.	Odor	Data lacking
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 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

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	**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
Lead (1.0519% TO 10.6658%)	1317-36-8	**Irritation:** Skin-Rabbit • 100 mg 24 Hour(s) • Mild irritation; **Multi-dose Toxicity:** Inhalation-Rat TCLo • 10 µg/m³ 24 Hour(s) 22 Week(s)-Continuous; *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:** Ingestion/Oral-Mouse TDLo • 1750 mg/kg (5W male); *Reproductive Effects:Paternal Effects*:**Spermatogenesis**; *Reproductive Effects:Paternal Effects*:**Testes, epididymis, sperm duct**
Organic Fluors (0.3211% TO 3.2543%)	*Proprietary*	**Acute Toxicity:** Ingestion/Oral-Rat LD50 • 900 mg/kg; Skin-Rabbit LD50 • 3160 mg/kg; *Lungs, Thorax, or Respiration*:**Acute pulmonary edema**; *Liver*:**Other changes**; *Kidney, Ureter, and Bladder*:**Other changes**; **Multi-dose Toxicity:** Skin-Rabbit TDLo • 300 mg/kg 14 Day(s)-Continuous; *Skin and Appendages:After topical exposure*:**Primary irritation**; **Tumorigen / Carcinogen:** Skin-Mouse TDLo • 188 mg/kg 47 Week(s)-Intermittent; *Tumorigenic*:**Equivocal tumorigenic agent by RTECS criteria**; *Lungs, Thorax, or Respiration*:**Tumors**; *Skin and Appendages:Other*:**Tumors**
Organic Fluors (0.3648% TO 3.7015%)	*Proprietary*	**Acute Toxicity:** Ingestion/Oral-Rat LD50 • 2200 mg/kg; Skin-Rabbit LD50 • 520 µL/kg
Organic Fluors (0.271% TO 2.7438%)	*Proprietary*	**Acute Toxicity:** Ingestion/Oral-Rat LD50 • 1060 mg/kg; Skin-Rabbit LD50 • 500 mg/kg

GHS Properties	Classification
Acute toxicity	**EU/CLP** • Acute Toxicity - Inhalation 4 - ATEmix (Inhl) = 1.5 mg/l **OSHA HCS 2012** • Data lacking
Skin corrosion/Irritation	**EU/CLP** • Data lacking **OSHA HCS 2012** • Data lacking
Serious eye damage/Irritation	**EU/CLP** • Data lacking **OSHA HCS 2012** • Data lacking
Skin sensitization	**EU/CLP** • Data lacking **OSHA HCS 2012** • Data lacking
Respiratory sensitization	**EU/CLP** • Data lacking **OSHA HCS 2012** • Data lacking
Aspiration Hazard	**EU/CLP** • Data lacking **OSHA HCS 2012** • Data lacking
Carcinogenicity	**EU/CLP** • Carcinogenicity 1B **OSHA HCS 2012** • Carcinogenicity 1B
Germ Cell Mutagenicity	**EU/CLP** • Data lacking **OSHA HCS 2012** • Data lacking
Toxicity for Reproduction	**EU/CLP** • Toxic to Reproduction 1A **OSHA HCS 2012** • Toxic to Reproduction 1A
STOT-SE	**EU/CLP** • Data lacking **OSHA HCS 2012** • Data lacking
STOT-RE	**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	**Aquatic Toxicity-Fish:** 96 Hour(s) *Fathead minnow - Pimephales promelas* 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	*Proprietary*	Yes	No	Yes	No	No
Vinyl toluene	25013-15-4	Yes	No	Yes	No	Yes
Organic Fluors	*Proprietary*	Yes	No	Yes	No	Yes

Inventory (Con't.)		
Component	**CAS**	**TSCA**
Organic Fluors	*Proprietary*	Yes
Organic Fluors	*Proprietary*	Yes
Organic Fluors	*Proprietary*	Yes
Lead	1317-36-8	Yes
Organic Fluors	*Proprietary*	Yes
Organic Fluors	*Proprietary*	Yes
Vinyl toluene	25013-15-4	Yes
Organic Fluors	*Proprietary*	Yes

Canada

Labor

Canada - WHMIS - Classifications of Substances

• Vinyl toluene	25013-15-4	B3, D2B
• Lead	1317-36-8	D2A
• Organic Fluors	*Proprietary*	Not Listed
• Organic Fluors	*Proprietary*	B3, D1B, E, F
• Organic Fluors	*Proprietary*	Uncontrolled product according to WHMIS classification criteria
• 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 %
• Lead	1317-36-8	1 %
• Organic Fluors	*Proprietary*	1 %
• Organic Fluors	*Proprietary*	1 %
• Organic Fluors	*Proprietary*	1 %
• Organic Fluors	*Proprietary*	Not Listed
• Organic Fluors	*Proprietary*	1 %
• Organic Fluors	*Proprietary*	Not Listed

Environment

Canada - CEPA - Priority Substances List

• Vinyl toluene	25013-15-4	Not Listed
• Lead	1317-36-8	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
• Organic Fluors	*Proprietary*	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	*Proprietary*	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
• Lead	1317-36-8	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
• Organic Fluors	*Proprietary*	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	*Proprietary*	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
• Lead	1317-36-8	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
• Organic Fluors	*Proprietary*	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	*Proprietary*	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
• Lead	1317-36-8	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
• Organic Fluors	*Proprietary*	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	*Proprietary*	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
• Lead	1317-36-8	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
• Organic Fluors	*Proprietary*	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	*Proprietary*	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
• Lead	1317-36-8	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
• Organic Fluors	*Proprietary*	Not Listed

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

• Vinyl toluene	25013-15-4	Not Listed
• Lead	1317-36-8	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
• Organic Fluors	*Proprietary*	Not Listed

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

• Vinyl toluene	25013-15-4	Not Listed
• Lead	1317-36-8	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
• Organic Fluors	*Proprietary*	Not Listed

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

• Vinyl toluene	25013-15-4	Not Listed
• Lead	1317-36-8	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
• Organic Fluors	*Proprietary*	Not Listed

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

• Vinyl toluene	25013-15-4	Not Listed
• Lead	1317-36-8	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
• Organic Fluors	*Proprietary*	Not Listed

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

• Vinyl toluene	25013-15-4	Not Listed
• Lead	1317-36-8	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
• Organic Fluors	*Proprietary*	Not Listed

United States - Pennsylvania

Labor

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

• Vinyl toluene	25013-15-4	Not Listed
• Lead	1317-36-8	Not Listed
• Organic Fluors	*Proprietary*	Not Listed
• Organic Fluors	*Proprietary*	Not Listed
• Organic Fluors	*Proprietary*	
• Organic Fluors	*Proprietary*	Not Listed

• Organic Fluors	*Proprietary*	Not Listed
• Organic Fluors	*Proprietary*	Not Listed
U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances		
• Vinyl toluene	25013-15-4	Not Listed
• Lead	1317-36-8	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
• 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 lead compound chemical known to the State of California to cause cancer.

Section 16 - Other Information

Revision Date
- 24/May/2017

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