

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
Synonyms	Plastic Scintillators
Product Code	 BC-400; BC-400 B; BC-400V; BC-404; BC-404 A; BC-404 B; BC-404 C; BC-404 CIM; BC-404 V; BC-404VM; BC-408; BC-408 A; BC-408 LB; BC-408 NS; BC-408 S; BC- 408 V; BC-412; BC-412 IM; BC-414; BC-414 A; BC-416; BC-418; BC-420; BC-422; BC-422A; BC-428; BC-428 V; BC-428 VM; BC-428 M; BC-430; BC-444A; BC-444G; BC-444M; BC-446; BC-488; BC-49901; BC-49906; BC-49909; BC-49910; BC-49918; BC-49953; BC-49977; BC-49978; BC-49979; BC-49980; BC-49983; BC-49985; BC- 49986; BC-49988; BC-810; BC-444
1.2 Relevant identified us	ses of the substance or mixture and uses advised against
Relevant identified use(s)	Radiation detection
1.3 Details of the supplie	r 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	e number
	Contract # 6493674
U.S. & Canada	• 1-800-255-3924 – VelocityEHS
International	 +1-813-248-0585 – VelocityEHS
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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 t	he substance or mixture
OSHA HCS 2012	Not classified
2.2 Label elements	
OSHA HCS 2012	
Hazard statem	ents 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	he 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

• 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.

3.2 Mixtures

Composition					
Chemical Name Identifiers % LD50/LC50 Classifications According to Regulation/Directive				0	Comments
				EU DSD/DPD: Xi; R36/37/38; R67	

Vinyl toluene	CAS: 25013- 15-4	93.8539% TO 99.964%	Ingestion/Oral-Rat LD50 • 2255 mg/kg 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 5.0989%	NDA	EU DSD/DPD: Not Classified	
Organic fluors	Proprietary	0% TO 3.7893%	NDA	EU DSD/DPD: Xi; R38 EU CLP: Skin Irrit. 2, H315 OSHA HCS 2012: Skin Irrit. 2	NDA
Organic fluors	Proprietary	0% TO 3.2482%	NDA	EU DSD/DPD: Xn; R22 EU CLP: Acute Tox. 4, H302 OSHA HCS 2012: Acute Tox. 4 (orl)	NDA
Organic fluors	Proprietary	0% TO 2.6769%	NDA	EU DSD/DPD: Not Classified EU CLP: Not Classified OSHA HCS 2012: Not Classified	NDA
Organic fluors	Proprietary	0% TO 2.4524%	NDA	EU DSD/DPD: Xi; R36/37/38 EU CLP: Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT	
Organic fluors	Proprietary	0% TO 0.5501%	NDA	EU DSD/DPD: Not Classified EU CLP: Not Classified OSHA HCS 2012: Not Classified	NDA
Organic fluors	Proprietary	0% TO 0.2184%	NDA	EU DSD/DPD: Xn; R22 EU CLP: Acute Tox. 4, H302 OSHA HCS 2012: Acute Tox. 4 (orl)	NDA
Organic fluors	Proprietary	0% TO 0.112%	NDA	EU DSD/DPD: Not Classified EU CLP: Not Classified OSHA HCS 2012: Not Classified	NDA
Organic fluors	Proprietary	0% TO 0.11%	NDA	EU DSD/DPD: Not Classified EU CLP: Not Classified OSHA HCS 2012: Not Classified	NDA
Organic fluors	Proprietary	0% TO 0.11%	Skin-Rabbit LD50 • >5 _g/kg Ingestion/Oral-Rat LD50 • 4600 mg/kg	EU DSD/DPD: Xi; R38 EU CLP: Skin Irrit. 2, H315 OSHA HCS 2012: Skin Irrit. 2	NDA
Organic fluors	Proprietary	0% TO 0.05599%	NDA	EU CLP: Community workplace exposure limit OSHA HCS 2012: Exposure limit	NDA
Organic fluors	Proprietary	0% TO 0.0442%	Ingestion/Oral-Rat EU CLP: Community workplace exposure limit LD50 • >10 g/kg OSHA HCS 2012: Exposure limits		NDA
Organic fluors	Proprietary	0.0311% TO 0.0336%	Ingestion/Oral-Rat LD50 • 890 mg/kg	EU CLP: Community workplace exposure limit 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.
Еуе	 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 •	Water fog. o	carbon dioxide.	foam, drv chemical.
	mator rog, c	ourborr aloxido,	roun, ary ononnour.

Unsuitable Extinguishing • No data available. Media

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	5	

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

- 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)	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	10 ppm TWA	10 ppm TWA; 50 mg/m3 TWA	Not established		
Organic fluors (Proprietary)	Ceilings	Not established	0.5 ppm Ceiling; 5 mg/m3 Ceiling	Not established		
Organic fluors (Proprietary)	TWAs	2 mg/m3 TWA (inhalable fraction and vapor)	10 mg/m3 TWA	Not established		
Vinyl toluene	TWAs	50 ppm TWA	100 ppm TWA; 480 mg/m3 TWA	100 ppm TWA; 480 mg/m3 TWA		
(25013-15-4)	STELs	100 ppm STEL	Not established	Not established		

Exposure Control Notations

ACĠIH

•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)
- •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	t		
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 Govern Industrial Hygiene NIOSH = National Institute of Occupational Health	STEL = Short Term Exposure Limits are based on TS-minute exposures		

OSHA = Occupational Safety and Health Administration

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	рН	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 300° C.

10.5 Incompatible materials

• Strong oxidizers.

10.6 Hazardous decomposition products

• Carbon dioxide and carbon monoxide, hydrocarbons.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

	Components			
Vinyl toluene (93.8539% TO 99.964%)	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 3.2482%)	Proprietary	Acute Toxicity: Ingestion/Oral-Rat LD50 • 1000 mg/kg; Liver: Changes in liver weight		
Organic fluors (0% TO 3.7893%)	Proprietary	Acute Toxicity: Ingestion/Oral-Rat LD50 • 32 g/kg; Reproductive: Ingestion/Oral-Rat TDLo • 418 g/kg (10W male/10D pre); Reproductive Effects:Effects on Newborn:Growth statistics (e.g., reduced weight gain)		
Organic fluors (0% TO 0.11%)	Proprietary	Acute Toxicity: Ingestion/Oral-Rat LD50 • 4600 mg/kg; Skin-Rabbit LD50 • >5 g/kg; Irritation: Skin-Rabbit • 500 mg 24 Hour(s) • Moderate irritation; Mutagen: DNA damage • Unreported Route-Human • Liver (Somatic cell) • 10 mg/L 20 Hour(s); Tumorigen / Carcinogen: Implant-Mouse TDLo • 400 mg/kg; <i>Tumorigenic</i> :Equivocal tumorigenic agent by RTECS criteria; <i>Kidney, Ureter, and Bladder</i> :Tumors		
Organic fluors (0% TO 0.2184%)	Proprietary	Acute Toxicity: Ingestion/Oral-Rat LD50 • 1500 mg/kg; Multi-dose Toxicity: Ingestion/Oral-Rat TDLo • 33000 mg/kg 33 Day(s)-Intermittent; Liver:Other changes; Kidney, Ureter, and Bladder:Other changes; Nutritional and Gross Metabolic:Gross Metabolite Changes:Weight loss or decreased weight gain; Reproductive: Ingestion/Oral-Rat TDLo • 1100 mg/kg (1-22D preg); Reproductive Effects:Specific Developmental Abnormalities:Cardiovascular (circulatory) system		
Organic fluors (0% TO 2.4524%)	Proprietary	Acute Toxicity: Ingestion/Oral-Rat LD50 • 5 mL/kg; Mutagen: Micronucleus test • Inhalation-Mouse • 53 ppm 6 Hour(s) 3 Day(s)-Continuous; Cytogenetic analysis • Inhalation-Mouse • 53 ppm 6 Hour(s) 3 Day(s)-Continuous; Sister chromatid exchange • Inhalation- Mouse • 53 ppm 6 Hour(s) 3 Day(s)-Continuous		

GHS Properties	Classification
Acute toxicity	EU/CLP • Data lacking 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 • Data lacking OSHA HCS 2012 • Data lacking
Germ Cell Mutagenicity	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Toxicity for Reproduction	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking

STOT-SE		EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
STOT-RE		EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Potential Health Effects Inhalation	Drassassas	
Acute (Immediate) Chronic (Delayed)	 Processes such as cutting, grinding, crushing, or impact may result in generation excessive amounts of airborne dusts in the workplace. Nuisance dust may affect the lungs but reactions are typically reversible. Repeated and prolonged exposure to dust may cause lung effects including 	
Chronic (Delayed)	 Repeated and pneumoconic 	
Skin		
Acute (Immediate)	Exposure to	dust may cause mechanical irritation.
Chronic (Delayed)	 No data availa 	able.
Eye		
Acute (Immediate)		dust may cause mechanical irritation. Excessive concentrations of st in the workplace may reduce visibility and may cause unpleasant yes.
Chronic (Delayed)	 No data availa 	able.
Ingestion		
Acute (Immediate)		ncentrations of nuisance dust in the workplace may cause mechanical nucous membranes.
Chronic (Delayed)	 No data availa 	able.
Key to abbreviations LD = Lethal Dose TD = Toxic Dose		

	ogical Information
12.1 Toxicity	
	Material data lacking.
12.2 Persistence	and degradability
	Material data lacking.
12.3 Bioaccumula	tive potential
	Material data lacking.
12.4 Mobility in Sc	bil
	Material data lacking.
12.5 Results of Pl	BT and vPvB assessment
	 No PBT and vPvB assessment has been conducted.
12.6 Other advers	e 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 UN14.2 UN proper14.3 Transport hazarnumbershipping nameclass(es)		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	CAO NDA Not Regulated		NDA	NDA	NDA

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

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code • No data available

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	No	No	Yes	No	No
Organic fluors	Proprietary	No	Yes	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	No	No	No	No	No
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	Yes	No	Yes	No	Yes
Vinyl toluene	25013-15-4	Yes	No	Yes	No	Yes
Organic fluors	Proprietary	Yes	No	Yes	No	Yes

Canada

Labor Canada - WHMIS - Classifications of Substances

Organic fluors	Proprietary	Not Listed
		Uncontrolled product
Organic fluors	Proprietary	according to WHMIS
		classification criteria
Vinyl toluene	25013-15-4	B3, D2B
Organic fluors	Proprietary	Not Listed
Organic fluors	Proprietary	Not Listed
		Uncontrolled product
Organic fluors	Proprietary	according to WHMIS
		classification criteria
Organic fluors	Proprietary	Not Listed
		Uncontrolled product
Organic fluors	Proprietary	according to WHMIS classification criteria
· Ormania fluore	Dura unia (a un	
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
Canada - WHMIS - Ingredient Disclosure List		
Organic fluors	Proprietary	Not Listed
Organic fluors	Proprietary	1 %
Vinyl toluene	25013-15-4	1 %
Organic fluors	Proprietary	Not Listed
Organic fluors	Proprietary	Not Listed
Organic fluors	Proprietary	1 %
Organic fluors	Proprietary	1 %
Organic fluors	Proprietary	1 %
Organic fluors	Proprietary	Not Listed
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		
Organic fluors	Proprietary	Not Listed
Organic fluors	Proprietary	Not Listed
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
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 C	Chemicals
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• Organic fluors Proprietary Not Listed • Organic fluors Proprietary Not Listed • 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 Not Listed Proprietary • Organic fluors Proprietary Not Listed · Organic fluors Proprietary Not Listed • Organic fluors Proprietary Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

Organic fluors	Proprietary	Not Listed
Organic fluors	Proprietary	Not Listed
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
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

Environment

U.S CAA (Clean Air Act) - 1990 Hazardous Air Pollu tants		
Organic fluors	Proprietary	Not Listed
Organic fluors	Proprietary	Not Listed
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
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		
Organic fluors	Proprietary	Not Listed

• Organic fluors

Not Listed

Not Listed

Proprietary

Proprietary

Vinyl toluene	25013-15-4	Not Listed
Organic fluors	Proprietary	Not Listed
Organic fluors	Proprietary	Not Listed
Organic fluors	Proprietary	5000 lb final RQ; 2270 kg final RQ
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
Organic fluors	Proprietary	Not Listed
Organic fluors	Proprietary	Not Listed
U.S CERCLA/SARA - Radionuclides and Their Reportable Quantities		
Organic fluors	Proprietary	Not Listed
Organic fluors	Proprietary	Not Listed
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
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		
Organic fluors	Proprietary	Not Listed
Organic fluors	Proprietary	Not Listed
Vinyl toluene	25013-15-4	Not Listed
Organic fluors	Proprietary	Not Listed
Organic fluors	Proprietary	Not Listed
Organic fluors	Proprietary	5000 lb EPCRA RQ
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
Organic fluors	Proprietary	Not Listed
Organic fluors	Proprietary	Not Listed
U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs		
Organic fluors	Proprietary	Not Listed
Organic fluors	Proprietary	Not Listed
Vinyl toluene	25013-15-4	Not Listed
Organic fluors	Proprietary	Not Listed
Organic fluors	Proprietary	Not Listed
Organic fluors	Proprietary	1000 lb lower TPQ; 10000 lb
		upper TPQ

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	
Organic fluors	Proprietary Not Listed	
Organic fluors	Proprietary Not Listed	
U.S CERCLA/SARA - Section 313 - Emission Reporting		
Organic fluors	Proprietary Not Listed	
Organic fluors	Proprietary Not Listed	
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	
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		
Organic fluors	Proprietary Not Listed	
Organic fluors	Proprietary Not Listed	
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	
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

U.S California - Proposition 65 - Carcinogens List		
Organic fluors	Proprietary	Not Listed
Organic fluors	Proprietary	Not Listed
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
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		
Organic fluors	Proprietary	Not Listed
Organic fluors	Proprietary	Not Listed
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
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 De		
Organic fluors	Proprietary	Not Listed
Organic fluors	Proprietary	Not Listed
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
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 Leve	els (NSBL)	
Organic fluors	Proprietary	Not Listed
Organic fluors	Proprietary	Not Listed
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
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
	, rophotaly	

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

Organic fluors	Proprietary	Not Listed
Organic fluors	Proprietary	Not Listed
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
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 Toxicit	y - Male	
Organic fluors	Proprietary	Not Listed
Organic fluors	Proprietary	Not Listed
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
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.

Section 16 - Other Information

Relevant Phrases (code & full text)

Revision Date	 H226 - Flammable liquid and vapour H302 - Harmful if swallowed H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation H336 - May cause drowsiness or dizziness R22 - Harmful if swallowed. R36/37/38 - Irritating to eyes, respiratory system and skin. R38 - Irritating to skin. R67 - Vapours may cause drowsiness and dizziness. 22/May/2023
Preparation Date	• 01/June/2015
•	
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Key to abbreviations

NDA = No data available