### **Safety Data Sheet**



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

#### 1.1 Product identifier

Product Name Resin Kit Part A & C - BC-490, BC-490G, BC-490RS

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

Relevant identified use(s) • Plastic Scintillator Casting resin

### 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

### 1.4 Emergency telephone number

#### Section 2: Hazards Identification

#### EU/EEC

According to: Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 2015/830]

According to: EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

#### 2.1 Classification of the substance or mixture

• Flammable Liquids 3 - H226

Skin Irritation 2 - H315

Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation - H335

Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects - H336

**DSD/DPD** • Irritant (Xi)

R36/37/38, R67

#### 2.2 Label Elements

CLP

#### WARNING





Hazard statements • H226 - Flammable liquid and vapour

H315 - Causes skin irritation

H335 - May cause respiratory irritation

#### H336 - May cause drowsiness or dizziness

#### **Precautionary statements**

Prevention • P210 - Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.

P233 - Keep container tightly closed.

P240 - Ground and/or bond container and receiving equipment. P241 - Use explosion-proof electrical/ventilating/lighting/equipment.

P242 - Use only non-sparking tools.

P243 - Take precautionary measures against static discharge.

P261 - Avoid breathing mists, vapours, and/or spray.

P264 - Wash thoroughly after handling.

P271 - Use only outdoors or in a well-ventilated area. P280 - Wear protective gloves and eye/face protection, .

**Response** • P370+P378 - In case of fire: Use appropriate media for extinction.

P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

P312 - Call a POISON ČENTER or doctor/physician if you feel unwell.

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated

clothing. Rinse skin with water/shower.

P362 - Take off contaminated clothing and wash before reuse. P321 - Specific treatment, see supplemental first aid information. P332+P313 - If skin irritation occurs: Get medical advice/attention.

Storage/Disposal • P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P235 - Keep cool. P405 - Store locked up.

P501 - Dispose of content and/or container in accordance with local, regional,

national, and/or international regulations.

#### DSD/DPD





Risk phrases • R36/37/38 - Irritating to eyes, respiratory system and skin.

R67 - Vapours may cause drowsiness and dizziness.

Safety phrases • S26 - In case of contact with eyes, rinse immediately with plenty of water and seek

medical advice.

#### 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** Flammable Liquids 3

Skin Irritation 2 Eve Irritation 2

Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation

Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects

## 2.2 Label elements

**OSHA HCS 2012** 

#### WARNING





#### Hazard statements • Flammable liquid and vapour

Causes skin irritation

Causes serious eye irritation May cause respiratory irritation May cause drowsiness or dizziness

#### **Precautionary statements**

Prevention •

Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.

Keep container tightly closed.

Ground and/or bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Avoid breathing mists, vapours, and/or spray.

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area. Wear protective gloves and eye/face protection, ...

Response •

In case of fire: Use appropriate media for extinction.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Call a POISON CENTER or doctor/physician if you feel unwell.

If on skin: Wash with plenty of water .

Take off contaminated clothing and wash before reuse. Specific treatment, see supplemental first aid information. If skin irritation occurs: Get medical advice/attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

Storage/Disposal •

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

Keep cool. Store locked up.

Dispose of content and/or container in accordance with local, regional, national, and/or

international regulations.

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

 Combustible Liquids - B3 Other Toxic Effects - D2B

2.2 Label elements

**WHMIS** 





**WHMIS** 

Combustible Liquids - B3 Other Toxic Effects - D2B

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

Preparation Date: 04/February/2009 Format: EU CLP/REACH Language: English (US) Revision Date: 24/May/2017 EU DSD/DPD, EU CLP, OSHA HCS 2012, WHMIS Page 3 of 16

#### 3.1 Substances

Material does not meet the criteria of a substance.

#### 3.2 Mixtures

			Composit	ion	
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments
Vinyl Toluene	CAS:25013- 15-4 EINECS:246- 562-2	> 98.7274%	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
Proprietary	Proprietary	1.1178% TO 1.2284%	NDA	EU DSD/DPD: Not Classified EU CLP: Not Classified OSHA HCS 2012: Not Classified	NDA
Proprietary	Proprietary	0.0369%	Ingestion/Oral-Rat LD50 • 890 mg/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

• IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. If signs/symptoms continue, get medical attention.

Skin

 IF ON SKIN: Wash with plenty of soap and water. Wash skin with soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical advice/attention.

Eye

 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion

 Do NOT induce vomiting. Keep head below hips if vomiting occurs. Get medical attention immediately.

### 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 • Alcohol foam, CO2, dry chemical, protein foam or water fog.

Unsuitable Extinguishing Media

No data available

## 5.2 Special hazards arising from the substance or mixture

## Unusual Fire and Explosion Hazards

HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames.

Containers may explode when heated.

Vapors may form explosive mixtures with air.

Vapor explosion hazard indoors, outdoors or in sewers. Vapors may travel to source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

## Hazardous Combustion Products

· No data available

#### 5.3 Advice for firefighters

Wear positive pressure self-contained breathing apparatus (SCBA).

Move containers from fire area if you can do it without risk.

Use water spray to cool fire-exposed containers.

Structural firefighters' protective clothing will only provide limited protection. Wear chemical protective clothing that is specifically recommended by the

manufacturer. It may provide little or no thermal protection.

#### **Section 6 - Accidental Release Measures**

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

**Personal Precautions** 

Ventilate enclosed areas. Do not walk through spilled material. Wear appropriate
protective equipment. Do not touch damaged containers or spilled material unless
wearing appropriate protective clothing.

**Emergency Procedures** 

As an immediate precautionary measure, isolate spill or leak area for at least 50
meters (150 feet) in all directions. ELIMINATE all ignition sources (no smoking, flares,
sparks or flames in immediate area). Keep out of low areas. Keep unauthorized
personnel away. Stay upwind. Ventilate closed spaces before entering.

#### 6.2 Environmental precautions

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

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

Containment/Clean-up Measures

Stop leak if you can do it without risk.

All equipment used when handling the product must be grounded.

Absorb or cover with dry earth, sand or other non-combustible material and transfer to

containers.

Do not use Zorbal.

Use clean non-sparking tools to collect absorbed material. A vapor suppressing foam may be used to reduce vapors. LARGE SPILLS: Dike far ahead of liquid spill for later disposal.

### 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 in well ventilated areas. Avoid contact with heat and ignition sources. Use
only non-sparking tools. Take precautionary measures against static charges. Wear
appropriate personal protective equipment, avoid direct contact. Avoid breathing mist,
vapors, and/or spray. Avoid contact with skin, eyes or clothing. 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/low-temperature, well-ventilated place. Control temperature in storage below 90°F Keep away from heat and ignition sources. Keep container closed when not in use. Keep out of direct sunlight.

## 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 Limit	s/Guidelines		
	Result	ACGIH	Canada British Columbia	Canada Manitoba	Canada New Brunswick	Canada Northwest Territories
Proprietary	TWAs	2 mg/m3 TWA (inhalable fraction and vapor)	2 mg/m3 TWA (aerosol, inhalable, and vapour)	2 mg/m3 TWA (inhalable fraction and vapor)	10 mg/m3 TWA	2 mg/m3 TWA (inhalable fraction and vapour)
(Proprietary)	STELs	Not established	Not established	Not established	Not established	4 mg/m3 STEL (inhalable fraction and vapour)
Vinyl Toluene	STELs	100 ppm STEL	75 ppm STEL	100 ppm STEL	100 ppm STEL; 483 mg/m3 STEL	100 ppm STEL
Vinyl Toluene (25013-15-4) TWAs		50 ppm TWA	25 ppm TWA	50 ppm TWA	50 ppm TWA; 242 mg/m3 TWA	50 ppm TWA
		E	κροsure Limits/Gι	idelines (Con't.)		
	Result	Canada Nova Scotia	1	Canada Ontario	Canada Quebec	Canada Yukon
Proprietary	TWAs	2 mg/m3 TWA (inhalable fraction and vapor)	2 mg/m3 TWA (inhalable fraction and vapour)	2 mg/m3 TWA (inhalable fraction and vapor)	Not established	10 mg/m3 TWA
(Proprietary)		Not established	4 mg/m3 STEL (inhalable fraction and vapour)	Not established	10 mg/m3 STEV	20 mg/m3 STEL
Vinyl Toluene	STELs	100 ppm STEL	100 ppm STEL	100 ppm STEL	100 ppm STEV; 483 mg/m3 STEV	150 ppm STEL; 720 mg/m3 STEL
(25013-15-4) TWA		50 ppm TWA	50 ppm TWA	50 ppm TWA	50 ppm TWAEV; 242 mg/m3 TWAEV	100 ppm TWA; 480 mg/m3 TWA
		Ex	κροsure Limits/Gι	idelines (Con't.)		
	Result	Denmark	Finland	France	Germany DFG	Germany TRGS
	TWAs	10 mg/m3 TWA	10 mg/m3 TWA	10 mg/m3 TWA [VME]	Not established	10 mg/m3 TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, inhalable fraction, exposure factor 4)
Proprietary (Proprietary)	Ceilings	Not established	Not established	Not established	40 mg/m3 Peak (can occur as vapor and aerosol at the same time, inhalable fraction)	Not established
	MAKs	Not established	Not established	Not established	10 mg/m3 TWA MAK (can occur as vapor and aerosol at the same time, inhalable fraction)	Not established
						100 ppm TWA AGW

Vinyl Toluene	Vinyl Toluene		A; 120	10 ppm TWA; 49 mg/m3 TWA	50 ppm TWA [VME]; 240 mg/m3 TWA [VME]	Not establis	shed	(all isomers, exposure factor 2); 490 mg/m3 TWA AGW (all isomers, exposure factor 2)
(25013-15-4)	Ceilings	Not establis	hed	Not established	Not established	40 ppm Pea isomers); 1 Peak (all is	96 mg/m3	Not established
	MAKs	Not established		Not established	Not established	20 ppm TWA MAK; 98 mg/m3 TWA MAK		Not established
			Ex	posure Limits/Gu	idelines (Con't.)			
	Result Greece		ce	Ireland	NIOSH	OSHA		Poland
Duamietem.	TWAs	10 mg/m3 T\	VΑ	10 mg/m3 TWA	10 mg/m3 TWA	Not establis	shed	Not established
Proprietary (Proprietary)	STELs	Not establish	ned	30 mg/m3 STEL (calculated)	Not established	Not establis	shed	Not established
Vinyl Toluene	TWAs	100 ppm TW mg/m3 TWA		50 ppm TWA; 242 mg/m3 TWA	100 ppm TWA; 480 mg/m3 TWA	100 ppm TV mg/m3 TW/		100 mg/m3 TWA [NDS]
(25013-15-4)	STELs	150 ppm ST mg/m3 STEL		10 ppm STEL; 483 mg/m3 STEL	Not established	Not established		300 mg/m3 STEL [NDSCh]
			Ex	posure Limits/Gu	idelines (Con't.)			
		Result		Portugal	Spain			Sweden
Proprietary (Proprietary)		TWAs	2 mg/m3 TWA [VLE-MP] As (inhalable fraction, aerosol and vapor)		10 mg/m3 TWA [VLA-ED]		Not established	
Vinyl Toluene		STELs	100 ppm	STEL [VLE-CD]	100 ppm STEL [VLA-E mg/m3 STEL [VLA-EC			dicative STLV; 150 icative STLV
(25013-15-4)		TWAs	50 ppm T	WA [VLE-MP]	50 ppm TWA [VLA-EI mg/m3 TWA [VLA-ED		10 ppm LL	V; 50 mg/m3 LLV

#### **Exposure Control Notations**

#### Denmark

•Vinyl Toluene (25013-15-4): **Skin Notations:** (Potential for cutaneous absorption (listed under Vinyltoluene, all isomers))

#### Portugal

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

#### Sweden

•Vinyl Toluene (25013-15-4): Skin: (Skin notation)

#### **ACGIH**

- •Vinyl Toluene (25013-15-4): Carcinogens: (A4 Not Classifiable as a Human Carcinogen)
- Proprietary (Proprietary): Carcinogens: (A4 Not Classifiable as a Human Carcinogen)

#### **Germany DFG**

- •Vinyl Toluene (25013-15-4): **Pregnancy:** (classification not yet possible (all isomers))
- Proprietary (Proprietary): **Carcinogens**: (Category 4 (no significant contribution to human cancer)) | **Pregnancy**: (no risk to embryo/fetus if exposure limits adhered to)

## **Exposure Limits Supplemental** ACGIH

- •Vinyl Toluene (25013-15-4): TLV Basis Critical Effects: (eye and upper respiratory tract irritation)
- •Proprietary (Proprietary): TLV Basis Critical Effects: (upper respiratory tract irritation)

### 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. Use explosion-proof electrical/ventilating/lighting/equipment.

#### **Personal Protective Equipment**

Respiratory

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 chemical splash safety goggles.

Skin/Body

Wear appropriate gloves.

**Environmental Exposure** Controls

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

#### Key to abbreviations

American Conference of Governmental

Industrial Hygiene

STEV = Short Term Exposure Value

Limit Level Value is the exposure limit for 8-

Threshold Limit Value determined by the American Conference of TLV

hour work day

Governmental Industrial Hygienists (ACGIH)

National Institute of Occupational Safety and NIOSH =

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

Occupational Safety and Health OSHA = Administration

TWAEV = Time-Weighted Average Exposure Value

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	Liquid	Appearance/Description	Thick, clear blue fluorescent liquid with aromatic odor.
Color	Clear, blue.	Odor	Aromatic
Odor Threshold	Data lacking		
General Properties			
Boiling Point	334 °F(167.7778 °C)	Melting Point/Freezing Point	Data lacking
Decomposition Temperature	Data lacking	рН	Data lacking
Specific Gravity/Relative Density	= 0.9164 Water=1	Water Solubility	0.0089 %
Viscosity	Data lacking	Explosive Properties	Data lacking
Oxidizing Properties:	Data lacking		
Volatility	-	•	-
Vapor Pressure	1.1 mmHg (torr) @ 20 °C(68 °F)	Vapor Density	4.08 Air=1
Evaporation Rate	Data lacking		
Flammability			-
Flash Point	52.8 °C(127.04 °F) TCC (Tagliabue Closed Cup)	UEL	5.2 % @ 84°C
LEL	1.1 % @ 51°C	Autoignition	538 °C(1000.4 °F)
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

• Avoid heat, sparks, open flames and other ignition sources.

### 10.5 Incompatible materials

· Acids, bases, and strong oxidizers.

### 10.6 Hazardous decomposition products

· None known.

### **Section 11 - Toxicological Information**

### 11.1 Information on toxicological effects

Components				
Vinyl Toluene (> 98.7274%)	25013- 15 <i>/</i>	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		

GHS Properties	Classification
Acute toxicity	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Skin corrosion/Irritation	EU/CLP • Skin Irritation 2 OSHA HCS 2012 • Skin Irritation 2
Serious eye damage/Irritation	EU/CLP • Data lacking OSHA HCS 2012 • Eye Irritation 2
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
	EU/CLP • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects; Specific

STOT-SE	Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation  OSHA HCS 2012 • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects;  Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation
STOT-RE	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking

#### **Potential Health Effects**

#### Inhalation

Acute (Immediate)

• May cause respiratory irritation. May affect the central nervous system. Symptoms may include dizziness, drowsiness, lethargy, coma and death.

**Chronic (Delayed)** 

No data available

Skin

Acute (Immediate)

Causes skin irritation.

**Chronic (Delayed)** 

· No data available

Eye

Acute (Immediate)

· Causes serious eye irritation.

**Chronic (Delayed)** 

No data available

Ingestion

Acute (Immediate)

May cause gastrointestinal irritation.

**Chronic (Delayed)** 

No data available

Key to abbreviations

LD = Lethal Dose

### **Section 12 - Ecological Information**

### **12.1 Toxicity**

Material data lacking.

## 12.2 Persistence and degradability

· Material data lacking.

### 12.3 Bioaccumulative potential

Material data lacking.

### 12.4 Mobility in Soil

· Material data lacking.

#### 12.5 Results of PBT and vPvB assessment

PBT and vPvB assessment has not been carried out.

#### 12.6 Other adverse effects

Material data lacking.

### 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	UN2618	Flammable liquids, n.o.s. (Vinyl Toluene)	3	III	NDA
TDG	UN2618	FLAMMABLE LIQUID, N.O.S. (Vinyl Toluene)	3	III	NDA
IMO/IMDG	UN2618	FLAMMABLE LIQUID, N.O.S. (Vinyl Toluene)	3	III	NDA
IATA/ICAO	UN2618	Flammable liquid, n.o.s. (Vinyl Toluene)	3	III	NDA

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

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 • Fire, Acute

	State Right To Know				
Component	CAS	PA			
Proprietary	Proprietary	Yes			
Proprietary	Proprietary	No			
p-bis (o- Methylstyryl) Benzene	13280-61-0	No			
Vinyl Toluene	25013-15-4	Yes			

	Inventory							
Component	CAS	Canada DSL	Canada DSL Canada NDSL China		EU EINECS	EU ELNICS		
Proprietary	Proprietary	Yes	No	Yes	Yes	No		
Proprietary	Proprietary	Yes	No	Yes	Yes	No		
p-bis (o- Methylstyryl) Benzene	13280-61-0	Yes	No	Yes	Yes	No		
Vinyl Toluene	25013-15-4	Yes	No	Yes	Yes	No		
			Inventory (Co	n't.)				
Comp	onent	CAS	K	orea KECL	Т	SCA		
Proprietary		Proprietary		Yes	Yes			
Proprietary	Proprietary Propri		Proprietary			Yes		
p-bis (o-Methylstyr	yl)Benzene	13280-61-0		Yes		Yes		

Vinyl Toluene	25013-15-4		Yes		Yes	
Canada						
Labor						
Canada - WHMIS 1988	- Classifications of Substance	es				
Vinyl Toluene				25013-15-4	B3, D2B	
Proprietary				Proprietary	Not Listed	
<ul> <li>Proprietary</li> </ul>				Proprietary	Not Listed	
p-bis (o-Methylstyryl)E	Benzene			13280-61-0	Not Listed	
	- Ingredient Disclosure List					
<ul> <li>Vinyl Toluene</li> </ul>				25013-15-4	1 %	
<ul> <li>Proprietary</li> </ul>				Proprietary	1 %	
<ul> <li>Proprietary</li> </ul>				Proprietary	Not Listed	
p-bis (o-Methylstyryl)E	Benzene			13280-61-0	Not Listed	
Environment						
Canada - CEPA - Priori	ity Substances List					
Vinyl Toluene				25013-15-4	Not Listed	
<ul> <li>Proprietary</li> </ul>				Proprietary	Not Listed	
<ul> <li>Proprietary</li> </ul>				Proprietary	Not Listed	
p-bis (o-Methylstyryl)E	Benzene			13280-61-0	Not Listed	
China						
Environment						
	ng Substances - First Schedu	le		05040.45.4	NI (III )	
Vinyl Toluene				25013-15-4	Not Listed	
Proprietary				Proprietary	Not Listed	
Proprietary				Proprietary	Not Listed	
p-bis (o-Methylstyryl)E	Benzene			13280-61-0	Not Listed	
	ng Substances - Second Sche	dule				
Vinyl Toluene				25013-15-4	Not Listed	
<ul> <li>Proprietary</li> </ul>				Proprietary	Not Listed	
Proprietary				Proprietary	Not Listed	
p-bis (o-Methylstyryl)E	Benzene			13280-61-0	Not Listed	
-	ng Substances - Third Schedu	ıle				
Vinyl Toluene				25013-15-4	Not Listed	
<ul> <li>Proprietary</li> </ul>				Proprietary	Not Listed	
<ul> <li>Proprietary</li> </ul>				Proprietary	Not Listed	
p-bis (o-Methylstyryl)E	Benzene			13280-61-0	Not Listed	
Other						
	Controlled Chemicals Lists			05040.45.4	Night Code C	
Vinyl Toluene				25013-15-4	Not Listed	
Proprietary				Proprietary	Not Listed	
Proprietary				Proprietary	Not Listed	
p-bis (o-Methylstyryl)E	Benzene			13280-61-0	Not Listed	
China - Dangerous Go	ods List					
Vinyl Toluene				25013-15-4		
Proprietary				Proprietary	Not Listed	
Proprietary				Proprietary	Not Listed	

• p-bis (o-Methylstyryl)Benzene

Germany		
Labor		
Germany - Immission Control - Qualifying Quantities for Major Accident Prev	ention	
Vinyl Toluene	25013-15-4	Not Listed
• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
Germany - Immission Control - Qualifying Quantities for Safety Reporting		
Vinyl Toluene	25013-15-4	Not Listed
• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
Germany - TRGS 505 - Specific Lead Regulations		
Vinyl Toluene	25013-15-4	Not Listed
• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
Environment Germany - TA Luft - Types and Classes		
Vinyl Toluene	25013-15-4	Not Listed
• Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	Not Listed
p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
Germany - TA Luft - Emission Limits for Carcinogenic Substances		
Vinyl Toluene	25013-15-4	Not Listed
Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	Not Listed
p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
Germany - TA Luft - Emission Limits for Fibers		
Vinyl Toluene	25013-15-4	Not Listed
Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	Not Listed
p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
Germany - TA Luft - Emission Limits for Inorganic Dusts		
Vinyl Toluene	25013-15-4	Not Listed
• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
Germany - TA Luft - Emission Limits for Inorganic Gases		
Vinyl Toluene	25013-15-4	Not Listed
• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
Germany - TA Luft - Emission Limits for Organic Substances		
Vinyl Toluene	25013-15-4	Not Listed

13280-61-0

Not Listed

Jnited States		
p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	ID Number 724, hazard class 2 - hazard to waters
Vinyl Toluene	25013-15-4	Not Listed
Germany - Water Classification (VwVwS) - Annex 3		
p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	ID Number 724, hazard class 1 - low hazard to waters
Vinyl Toluene	25013-15-4	Not Listed
Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes		
p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
Vinyl Toluene	25013-15-4	Not Listed
Germany - Water Classification (VwVwS) - Annex 1		
p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed

.S OSHA - Process Safety Management - Highly Hazardous Ch		
Vinyl Toluene	25013-15-4	Not Listed
Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	Not Listed
p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
S OSHA - Specifically Regulated Chemicals		
Vinyl Toluene	25013-15-4	Not Listed
Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	Not Listed
p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed

• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
Environment		
U.S CAA (Clean Air Act) - 1990 Hazardous Air Pollutants		
Vinyl Toluene	25013-15-4	Not Listed
Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	Not Listed
• p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
U.S CERCLA/SARA - Hazardous Substances and their Reportable Quantities		
Vinyl Toluene	25013-15-4	Not Listed
• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
U.S CERCLA/SARA - Radionuclides and Their Reportable Quantities		
Vinyl Toluene	25013-15-4	Not Listed
Proprietary	Proprietary	Not Listed

• Proprietary	Proprietary	Not Listed
• p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs		
Vinyl Toluene	25013-15-4	Not Listed
Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	Not Listed
• p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs		
Vinyl Toluene	25013-15-4	Not Listed
• Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	Not Listed
• p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
U.S CERCLA/SARA - Section 313 - Emission Reporting		
Vinyl Toluene	25013-15-4	Not Listed
Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	Not Listed
• p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
U.S CERCLA/SARA - Section 313 - PBT Chemical Listing		
Vinyl Toluene	25013-15-4	Not Listed
Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	Not Listed
p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed

## **United States - California**

Environment		
U.S California - Proposition 65 - Carcinogens List	05040 45 4	Not Listed
Vinyl Toluene	25013-15-4	Not Listed
• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
• p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
U.S California - Proposition 65 - Developmental Toxicity		
Vinyl Toluene	25013-15-4	Not Listed
Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	Not Listed
p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
U.S California - Proposition 65 - Maximum Allowable Dose Levels (MADL)		
Vinyl Toluene	25013-15-4	Not Listed
• Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	Not Listed
p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
U.S California - Proposition 65 - No Significant Risk Levels (NSRL)		
Vinyl Toluene	25013-15-4	Not Listed
Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
U.S California - Proposition 65 - Reproductive Toxicity - Female		
Vinyl Toluene	25013-15-4	Not Listed

Proprietary	Proprietary	Not Listed	
Proprietary	Proprietary	Not Listed	
• p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed	
U.S California - Proposition 65 - Reproductive Toxicity - Male			
Vinyl Toluene	25013-15-4	Not Listed	
• Proprietary	Proprietary	Not Listed	
• Proprietary	Proprietary	Not Listed	
p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed	

### **United States - Pennsylvania**

Labor		
U.S Pennsylvania - RTK (Right to Know) - Environmental Haza	ard List	
Vinyl Toluene	25013-15-4	Not Listed
Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	Not Listed
• p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
U.S Pennsylvania - RTK (Right to Know) - Special Hazardous	Substances	
Vinyl Toluene	25013-15-4	Not Listed
• Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	Not Listed
• p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed

### 15.2 Chemical Safety Assessment

· No Chemical Safety Assessment has been carried out.

#### Section 16 - Other Information

**Revision Date** 

**Preparation Date** 

Disclaimer/Statement of Liability

24/May/2017

• 04/February/2009

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
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**Key to abbreviations** NDA = No Data Available