

# SAFETY DATA SHEET

Revision Date: 03/17/2003/17/2003/17/2003/17/2003/17/20

 $(C_7H_{12}O_2)_x$ 

## **Section 1: Identification**

#### PRODUCT AND COMPANY INFORMATION

Product Name:Poly(tert- butyl acrylate), solution in tolueneCatalog Number(s):223Molecular Formula:Company:Scientific Polymer Products, Inc.<br/>6265 Dean Parkway<br/>Ontario, NY 14519Second Parkway<br/>StressTelephone:S85/265-0413<br/>585/265-1390<br/>www.scipoly.comSecond Parkway<br/>Stress

Emergency Phone Number: 800-255-3924 (CHEM TEL)

### Section 2: Hazards Identification

### Classification of the substance or mixture

### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids, Category 2, H225 Skin irritation, Category 2, H315 Reproductive toxicity, Category 2, H361 Specific target organ toxicity- single exposure, Category 3, Central nervous system, H336 Specific target organ toxicity- repeated exposure, Category 2, H373 Aspiration hazard, Category 1, H304

#### GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s) H225 H304 H315 H336 H361 H373	Highly flammable liquid and vapor. May be fatal if swallowed and enters airways. Causes skin irritation. May cause drowsiness or dizziness. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.
Precautionary statemer	nt(s)
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No
	smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P242	Use only non-sparking tools.
P243	Take précautionary measures against static discharge.

P260: P264	Do not breathe dust/fumes/gas/mist/vapors/spray. Wash skin thoroughly after handling.
P271:	Use only outdoors or in a well-ventilated area.
P273:	Avoid release to the environment.
P280:	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P303+P361+P353:	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304+P340:	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P313:	IF exposed or concerned: Call a POISON CENTER or doctor/physician.
P321:	Specific treatment (see supplemental first aid instructions on this label).
P331:	Do NOT induce vomiting.
P332+P313:	If skin irritation occurs: Get medical advice/attention.
P362:	Take off contaminated clothing and wash before reuse.
P370+P378:	In case of fire: Use dry sand, dry chemical or alcohol resistant foam for extinction.
P391:	Collect spillage.
P403+P233:	Store in a well ventilated place. Keep container tightly closed.
P403+P235:	Store in a well ventilated place. Keep cool.
P405:	Store locked up.
P501:	Dispose of contents/ container to an approved waste disposal plant.

### Hazards not otherwise classified (HNOC) or not covered by GHS - none

To the best of our knowledge, the toxicological properties of this chemical have not been thoroughly investigated. Use appropriate procedures and precautions to prevent or minimize exposure.

## Section 3: Composition/Information on Ingredients

Ingredient	CAS Number	Concentration (%)
Toluene	108-88-3	72 - 77%
Poly(tert-butyl acrylate)	25232-27-3	23 - 28%

## Section 4: First Aid Measures

### **Description of first aid measures**

#### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

### If inhaled

If breathed in, move person into fresh. If not breathing, give artificial respiration. Consult a physician.

### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician

#### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician

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

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11

# Indication of any immediate medical attention and special treatment needed

No data available

### Section 5: Fire-Fighting Measures

### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### Special hazards arising from the substance or mixture

Carbon oxides

#### Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

#### **Further information**

Use water spray to cool unopened containers

#### **Section 6: Accidental Release Measures**

## Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. For personal protection see section 8.

#### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

#### Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13)

### **Reference to other sections**

For disposal see section 13.

### Section 7: Handling and Storage

#### Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Use explosion proof equipment. Keep away from sources of ignition-No smoking. Take measure to prevent the buildup of electrostatic charge. For precautions see section 2.

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

Keep container tightly closed in a dry and well ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

#### Specific end use(s)

Laboratory chemicals, Manufacture of substances

## Section 8: Exposure Controls/Personal Protection

#### **Exposure Guidelines**

Component	CAS No.	ACGIH TLV	OSHA PEL	NIOSH IDLH
Toluene	108-88-3	TWA: 20ppm	(Vacated)TWA: 100 ppm	IDLH: 500ppm
			(Vacated)TWA: 375mg/m3	TWA: 100ppm
			Ceiling: 300ppm	TWA: 375mg/m <sup>3</sup>
			(Vacated)STEL: 150ppm STEL: 150ppm	
			(Vacated)STEL: 560mg/m <sup>3</sup>	STEL: 560mg/m <sup>3</sup>
			TWA: 200ppm	

Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV
Toluene	TWA: 50ppm TWA: 188mg/m <sup>3</sup>	TWA: 50ppm TWA: 188mg/m <sup>3</sup>	TWA: 20ppm
	Skin		

### Legend:

AČGIH- American Conference of Governmental Industrial Hygienists OSHA- Occupational Safety and Health Administration NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

### **Exposure controls**

### Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

### Personal protective equipment

### **Eye/face protection**

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

### **Body Protection**

Complete suit protecting against chemicals. Flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### **Respiratory protection**

Where risk assessment shows air purifying respirators are appropriate use a full face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### Control of environmental exposure

Prevent further leakage of spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

## **Section 9: Physical and Chemical Properties**

### Information on basic physical and chemical properties

a) b) c) d) e) f) b) i)	Appearance Odor Odor Threshold pH Melting point/freezing point Initial boiling point and boiling range Flash point Evaporation rate Flammability (solid, gas) Flammability or explosive limits Upper Lower	Form: Liquid Sweet, pungent, Benzene like No data available No data available 110 – 111°C (230 – 232°F) 4°C/ 39.2°F No data available No data available 6.70% 1.40%
k) l) n) o)	Vapor pressure Vapor density Relative density Water solubility Partition coefficient: n- octanol/water	No data available No data available No data available No data available No data available No data available

- p) Auto-ignition temperature
- q) Decomposition temperature
- r) Viscosity
- s) Explosive properties
- t) Oxidizing properties

# Other safety information

No data available

#### 535.0° C (995.0° F) No data available No data available No data available No data available

## Section 10: Stability and Reactivity

## Reactivity

No data available

## **Chemical stability**

Stable under recommended storage conditions.

### Possibility of hazardous reactions

Vapors may form an explosive mixture with air

### **Conditions to avoid**

Heat, flames and sparks. Extremes of temperature and direct sunlight

## **Incompatible materials**

Strong oxidizing agents

### Hazardous decomposition products

Other decomposition products- no data available In the event of fire: see section 5

## Section 11: Toxicological Information

### Acute toxicity

Product information	No acute toxicity information is available for this product
Oral LD50	Based on ATE data, the classification criteria are not met. ATE>2000mg/kg
Dermal LD50	Based on ATE data, the classification criteria are not met. ATE>2000mg/kg
Vapor LC50	Based on ATE data, the classification criteria are not met. ATE>2000mg/kg

### **Component information**

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Toluene	>5000mg/kg (Rat)	12000mg/kg (Rabbit)	26700ppm (Rat) 1 h

Toxicologically synergistic Products No data available

## Delayed and immediate effects as well as chronic effects from short and long term exposure

Irritation	No data available
Sensitization	No data available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen

Component	CAS No.	IARC	NTP	ACGIH	OSHA	Mexico
Toluene	108-88-3	Not listed				
Poly(tert-butyl acrylate)	25232-27-3	Not listed				

### **Mutagenic effects**

No data available

Reproductive effects

Developmental effects	No data available
Teratogenicity	No data available
STOT- single exposure STOT- repeated exposure	Central Nervous System (CNS) None known
Aspiration hazard	No data available
Symptoms/effects, both acute and Delayed	Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting
Endocrine disruptor information	No data available
Other adverse effects	The toxicological properties have not been fully investigated

## Section 12: Ecological Information

## Ecotoxicity

Do not empty into drains

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Toluene	12.5mg/L EC50 = 72h 433	50-70mg/L LC50 96 h	EC50 = 19.7mg/L 30 min	11.5mg/L EC50 = 48 h
	Mg/L EC50 > 96 h	5-7mg/L LC50 96 h		5.46
		15-19mg/L LC50 96 h		- 9.83mg/L EC50 48 h
		28mg/L LC50 96 h		
		12mg/L LC50 96 h		

## Persistence and degradability

No data available

**Bioaccumulative potential** No data available

# Mobility in soil

No data available

## **Section 13: Disposal Considerations**

### Waste treatment methods

### Product

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional and national hazardous waste regulations to ensure complete and accurate classification.

### Contaminated packaging

Dispose of as unused product.

## **Section 14: Transport Information**

<b>DOT (US)</b> UN number: 1294 Proper shipping name: Toluene, s Reportable quantity (RQ): 167 lbs Poison Inhalation Hazard: No		Packing group: II	
IMDG UN number: 1294 Proper shipping name: TOLUENE,	Class: 3 SOLUTION	Packing group: II	EMS-No: F-E, S-D

## Section 15: Regulatory Information

#### SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313:

Toluene	CAS No. 108-88-3			
<b>SARA 311/312 Hazards</b> Fire Hazard, Acute Health Hazard, Chronic Health Hazard				
Massachusetts Right To Know Components				
Toluene	CAS No. 108-88-3			
Pennsylvania Right To Know Components				
Toluene Poly(tert-butyl acrylate)	CAS No. 108-88-3 25232-27-3			

**New Jersey Right To Know Components** 

CAS No.
108-88-3
25232-27-3

#### California Prop. 65 Components

Toluene

WARNING This product contains a chemical known to the State of California to cause birth defects or other reproductive harm

CAS	No.
108-	88-3

Section 16: Other Information					
<b>HMIS Rating</b> Health:	2	<b>NFPA Rating</b> Health:	2		
Flammability: Reactivity:	3 0	Flammability: Reactivity:	3 0		

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