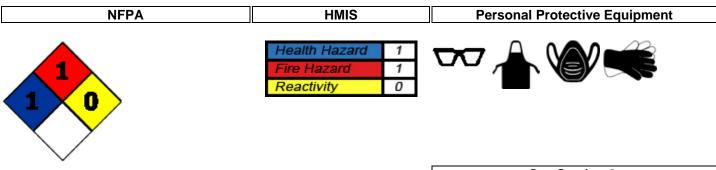




# **MATERIAL SAFETY DATA SHEET**



See Section 8.

1. CHEMICAL PRODUCT AN	ND COMPANY IDENTIFICATION
Product code:	M1654
Product Name:	alpha-Methylstyrene-vinyl Toluene Copolymer (Av. M.W. 1100)
Chemical Name:	No information available
Synonyms:	Benzene, ethenylmethyl-, polymer with (1-methylethenyl)benzene ALPHA-METHYLSTYRENE-VINYLTOLUENE COPOLYMER RESINS (MOLAR RATIO 1 ALPHA-METHYLSTYRENE TO 3 VINYLTOLUENE)
Recommended use:	No information available.
CAS #:	9017-27-0
Formula:	[CH2CH(C6H4CH3)]x[CH2C(CH3(C6H5)]y
RTECS #	Not available
CI#:	Not available
Supplier:	Spectrum Chemicals and Laboratory Products, Inc.
	14422 South San Pedro St.
	Gardena, CA 90248
	(310) 516-8000
Emergency Telephone Number:	CHEMTREC: 1-800-424-9300
Contact Person:	Martin LaBenz (West Coast)
Contact Person:	Regina Wachenheim (East Coast)

# 2. HAZARDS IDENTIFICATION

<b>EMERGENCY OVERVIEW</b> May cause skin and eye irritation. May cause irritation of respiratory tract.			
Odor:	Physical state:	<b>Appearance:</b>	<b>Color:</b>
No information available	Solid.	No information available	Translucent. White.

#### **OSHA Regulatory Status**

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 1910.1200)

# 2. HAZARDS IDENTIFICATION

#### POTENTIAL HEALTH EFFECTS

**Principal Routes of Exposure:** Ingestion. Inhalation.

#### **Acute Potential Health Effects:**

Skin Contact:

May cause skin irritation.

**Eye Contact:** Contact with eyes may cause irritation.

Inhalation: May cause irritation of respiratory tract.

**Ingestion:** No information available.

#### **Chronic Potential Health Effects:**

Component	Carcinogen Status:
alpha-Methylstyrene-vinyl Toluene Copolymer (Av. M.W. 1100) 9017-27-0 (100)	No information available

Target Organs:	No information available
Teratogenic Effects:	No information available
Mutagenic Effects:	No information available
Aggravated Medical Conditions:	No information available

### See Section 11 for additional Toxicological Information

### POTENTIAL ENVIRONMENTAL EFFECTS

#### No information available

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
alpha-Methylstyrene-vinyl Toluene Copolymer (Av. M.W.	9017-27-0	100
1100)		

# 4. FIRST AID MEASURES

#### **General Advice:**

Poison information centres in each State capital city can provide additional assistance for scheduled poisons (13 1126)

Skin Contact:	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention if irritation develops. Consult a physician if necessary.
Eye Contact:	Flush eye with water for 15 minutes. Get medical attention if irritation occurs. If symptoms persist, call a physician.
Inhalation:	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion:	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary.
Notes to Physician:	Treat symptomatically

# 5. FIRE-FIGHTING MEASURES

#### **Flammable Properties**

Flashpoint (°C/°F):	>113 °C/>235.4 °F		
Flash Point Tested according to Closed cup	D:		
Lower Explosion Limit (%):	No information available		
Upper Explosion Limit (%):	No information available		
Autoignition Temperature (°C/°	F): No information available		
Suitable Extinguishing Media:		Carbon dioxide (CO2). Dry chemical. Water spray mist or foam.	
Unsuitable Extinguishing Media:		No information available.	
Hazardous Combustion Products:		Carbon monoxide; Carbon dioxide	
Specific hazards:		May be combustible at high temperatures.	

**Special Protective Equipment for Firefighters:** 

**Specific Methods:** 

No information available.

and full protective gear

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent)

# 6. ACCIDENTAL RELEASE MEASURES

#### Personal Precautions:

Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Remove all sources of ignition.

#### **Environmental Precautions:**

No information available.

#### Methods for Cleaning Up:

Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

Product code: M1654

Product name: alpha-Methylstyrenevinyl Toluene Copolymer (Av. M.W. 1100)

# 7. HANDLING AND STORAGE

#### Handling

#### **Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials.

#### Safe Handling Advice:

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Avoid dust formation. Do not ingest. Do not breathe vapours/dust. Handle in accordance with good industrial hygiene and safety practice.

#### Storage

#### **Technical Measures/Storage Conditions:**

Keep container tightly closed in a dry and well-ventilated place. Protect from light. Deep freeze. Store at -20 °C. Store away from incompatible materials.

#### Incompatible Materials:

Strong oxidizing agents.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Engineering measures to reduce exposure:

Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

#### **Personal Protective Equipment**

Eye protection:	Safety glasses. Safety glasses with side-shields.
Skin and body protection:	Long sleeved clothing. Chemical resistant apron. Gloves.
Respiratory protection:	Effective dust mask. Wear respirator with dust filter
Hygiene measures:	Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

#### National occupational exposure limits

#### United States

U.S Occupational Exposure Limits: Not determined

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
	None	None	None	None
alpha-Methylstyrene-vinyl Toluene				
Copolymer (Av. M.W. 1100) - 9017-				
27-0				

### Canada

Canada Occupational Exposure Limits: Not determined

Components	Alberta	British Columbia	Ontario	Quebec
alpha-Methylstyrene-vinyl Toluene Copolymer (Av. M.W. 1100) 9017-27-0	None	None	None	None

#### Australia and Mexico

Occupational Exposure Limits for Australia and Mexico: Not determined

Components	Australia	Mexico
alpha-Methylstyrene-vinyl Toluene	None	None
Copolymer (Av. M.W. 1100)		
9017-27-0		

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid.

**Odor:** No information available

Flash point (°C): >113

Autoignition Temperature (°C/°F): No information available

**Boiling point/range(°C/°F):** No information available

Density (g/cm3): 1.05 @ 25 °C

**Evaporation rate:** No information available

Odor threshold (ppm): No information available

Solubility: Insoluble in water Insoluble in alcohol Insoluble in glycols Soluble in hydrocarbons Soluble in ketones Soluble in esters Appearance: No information available

Taste No information available

Lower Explosion Limit (%): No information available

**pH:** No information available

**Decomposition temperature(°C/°F):** No information available

Bulk density: No information available

Vapor density: No information available

Partition coefficient (n-octanol/water): No information available **Color:** Translucent. White.

Molecular/Formula weight: Average M.W. 1100

**Upper Explosion Limit (%):** No information available

**Melting point/range(°C/°F):** softening point = 72-78 °C

**Specific gravity:** No information available

Vapor pressure @ 20°C (kPa): No information available

**VOC content (g/L):** No information available

**Miscibility:** No information available

### **10. STABILITY AND REACTIVITY**

Stability:	Stable at normal conditions
Conditions to avoid:	Heat. Avoid dust formation.
Incompatible Materials:	Strong oxidizing agents.
Hazardous decomposition products:	Carbon monoxide. Carbon dioxide.

Possibility of Hazardous Reactions:	No information available	
Polymerization:	Hazardous polymerisation does not occur	
Corrosivity:	No information available	
Special Remarks on Corrosivity:	No information available	
11. TOXICOLOGICAL INFOR	RMATION	
Acute Toxicity		
Component Information		
LD50/oral/rat = No information available LD50/oral/mouse = No information available LD50/dermal/rabbit = No information available LD50/dermal/rat = No information available LC50/inhalation/rat = No information available LC50/inhalation/mouse = No information available Other LD50 or LC50information = No information available		
Product Information		
LC50/inhalation/rat = No information LC50/Inhalation/mouse = No information LD50/dermal/rabbit = No information a LD50/dermal/rat = No information a LD50/oral/mouse = No information available	mation available on available available available	
Local Effects		
Skin irritation:	May cause skin irritation.	

Eye irritation:	Contact with eyes may cause irritation.
Inhalation:	May cause irritation of respiratory tract.
Ingestion:	Health injuries are not known or expected under normal use.
Sensitization:	No information available

**Chronic Toxicity** 

Chronic Toxicity	No information available.
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Carcinogenic effects: Not considered carcinogenic.

Components	NTP	IARC	OSHA HCS - Carcinogens	•	Australia - Prohibited Carcinogenic Substances	Australia - Notifiable Carcinogenic Substances
alpha-Methylstyrene-vinyl Toluene Copolymer (Av.	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed
M.W. 1100)						

Mutagenic Effects:	No information available
Reproductive Effects:	No information available
Teratogenic Effects:	No information available
Target Organs:	No information available

# **12. ECOLOGICAL INFORMATION**

### ECOTOXICITY

Toxicity to terrestrial and aquatic plants and animals:		No information available
Ecotoxicity effects:	No data available.	
Aquatic toxicity:	quatic toxicity: No information available	
Mobility:	No information availab	e
Persistence and degradability: No information available		le
Bioaccumulative potential:	No information availab	le

# **13. DISPOSAL CONSIDERATIONS**

#### Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

#### **Contaminated packaging:**

Empty containers should be taken for local recycling, recovery or waste disposal

Components	<b>RCRA - F Series Wastes</b>	<b>RCRA - K Series Wastes</b>	<b>RCRA - P Series Wastes</b>	RCRA - U Series Wastes
alpha-Methylstyrene-vinyl Toluene Copolymer (Av. M.W. 1100)	None	None	None	None

# 14. TRANSPORT INFORMATION

DOT UN-No: Proper Shipping Name: Hazard Class: Packing Group: Subsidiary Risk: Marine Pollutant ERG No: DOT RQ (lbs):	Not regulated No information available No information available None Not applicable No data available No information available No information available
TDG (Canada) UN-No: Proper Shipping Name: Hazard Class: Packing Group: Subsidiary Risk: Description:	Not Regulated No information available No information available No information available No information available No information available

### ADR

UN-No:
Proper Shipping Name:
Hazard Class:
Packing Group:
Subsidiary Risk:
Classification Code:
Description:
CEFIC Tremcard No:

### IMO / IMDG

UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Packing Group:	No information available
Subsidiary Risk:	No information available
Description:	No information available
IMDG Page:	No information available
Marine Pollutant	No information available
MFAG:	No information available
Maximum Quantity:	No information available

Not Regulated

No information available No information available

#### RID

UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Packing Group:	No information available
Subsidiary Risk:	No information available
Classification Code:	No information available
Description:	No information available

### ICAO

UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Packing Group:	No information available
Subsidiary Risk:	No information available
Description:	No information available

### IATA

UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Packing Group:	No information available
Subsidiary Risk:	No information available
Description:	No information available

# **15. REGULATORY INFORMATION**

## **International Inventories**

Components	U.S. TSCA	Philippines (PICCS)	KOREA KECL	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
alpha-Methylstyrene-vinyl Toluene Copolymer (Av. M.W. 1100)	XU	Not present	KE-13297	Not present	Present	Present	Not present

### **U.S. Regulations**

Product code: M1654

#### California Prop. 65: Safe Drinking Water and Toxic Enforcment Act of 1986.

#### Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

#### Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	Carcinogen			Female Reproductive Toxicity:
alpha-Methylstyrene-vinyl Toluene Copolymer (Av. M.W. 1100)	Not Listed	Not Listed	Not Listed	Not Listed

#### CERCLA/SARA

	Substances and their	Section 302 Extremely Hazardous Substances and TPQs	Hazardous	Chemical Category	Section 313 - Reporting de minimis
alpha-Methylstyrene-vinyl Toluene Copolymer (Av. M.W. 1100)		None	None	None	None

#### U.S. TSCA

•	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
alpha-Methylstyrene-vinyl Toluene Copolymer (Av. M.W. 1100)	Not Applicable	Not Applicable

#### Canada

#### WHMIS hazard class:

Non-controlled

#### **Canada Controlled Products Regulation:**

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

#### Inventory

Components	Canada (DSL)	Canada (NDSL)
alpha-Methylstyrene-vinyl Toluene	Present	Not Listed
Copolymer (Av. M.W. 1100)		

Components	CEPA Schedule I - Toxic Substances	CEPA - 2010 Greenhouse Gases Subject to Manditory Reporting
alpha-Methylstyrene-vinyl Toluene Copolymer (Av. M.W. 1100)	Not listed	Not listed

#### **EU Classification**

R-phrase(s) not determined S -phrase(s) none

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger: Not dangerous

# **16. OTHER INFORMATION**

The MSDS format complies with ANSI Z400.1-2004 standards.

Preparation Date:	06-Nov-2012
Reason for revision:	Not applicable
Prepared by:	Sonia Owen
Literature reference:	No information available

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. The physical properties reported in this MSDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.