

SAFETY DATA SHEET PACKET

Product Identifier

SRM Number: 2907

SRM Name: Trace Terrorist Explosives Simulants

SRM Description:

A unit of SRM 2907 consists of individual plastic squeeze bottles each containing approximately 1 g of the two trace terrorist explosives simulant materials. Attached are the individual Safety Data Sheets for the materials in this Standard Reference Material (SRM).

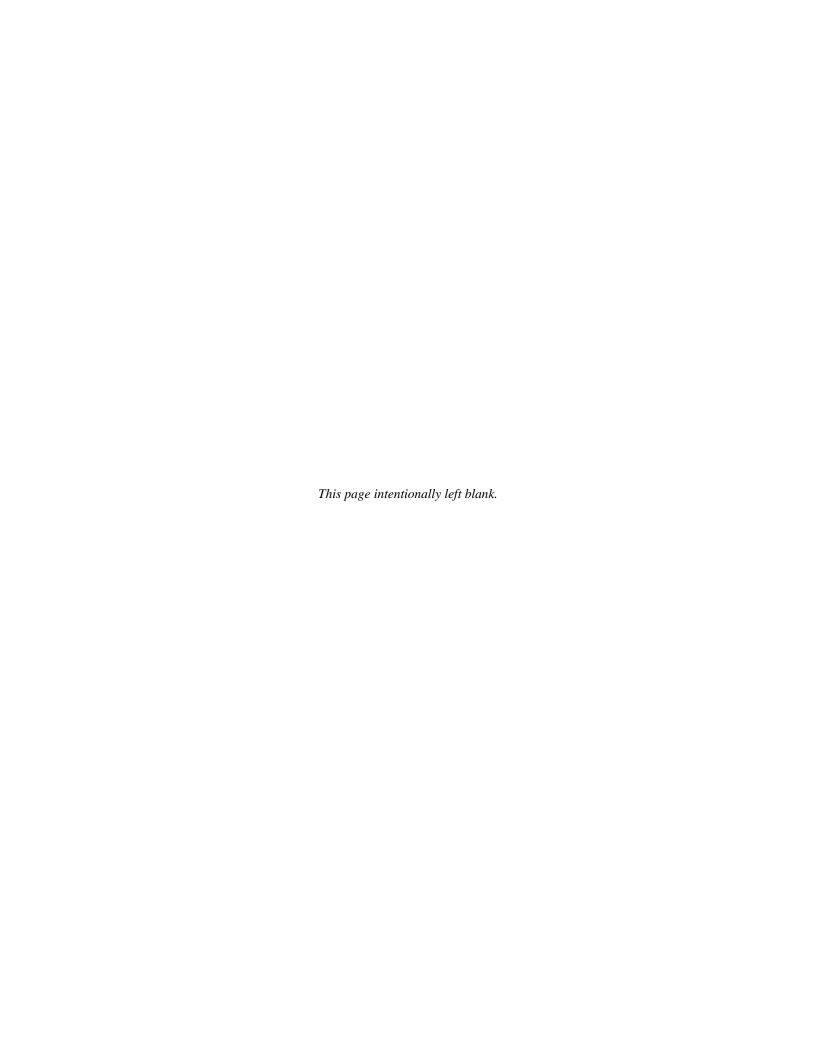
SRM 2907 Parts:

0.04 % Semtex 1A (Semtex A1 is of a nominal mass fraction of 0.04 % on C_{18} Silica.) 0.4 % TATP (TATP is of a nominal mass fraction of 0.4 % on PRP-1.)

Company Information

National Institute of Standards and Technology Standard Reference Materials Program 100 Bureau Drive, Stop 2300 Gaithersburg, Maryland 20899-2300

Telephone: 301-975-2200 Emergency Telephone ChemTrec: FAX: 301-948-3730 1-800-424-9300 (North America) E-mail: SRMMSDS@nist.gov +1-703-527-3887 (International) Website: http://www.nist.gov/srm





SAFETY DATA SHEET

1. SUBSTANCE AND SOURCE IDENTIFICATION

Product Identifier

SRM Number: 2907

SRM Name: Trace Terrorist Explosives Simulants

SRM Part: 0.04 % Semtex 1A (Semtex A1 is of a nominal mass fraction of 0.04 % on C₁₈ Silica.)

Other Means of Identification: Not applicable.

Recommended Use of This Material and Restrictions of Use

This Standard Reference Material (SRM) is a surrogate for explosives residues and is intended for use in evaluating analytical equipment used for the detection of trace explosives. SRM 2907 consists of two non-explosive materials prepared from inert particles that are coated with trace levels of explosives. A unit of SRM 2907 consists of individual plastic squeeze bottles each containing approximately 1 g of the two trace terrorist explosives simulant materials.

Company Information

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Website: http://www.nist.gov/srm

2. HAZARDS IDENTIFICATION

Note: This SDS is for 0.04 % Semtex A1on C₁₈ Silica; see additional SDS for the classification for 0.4 % TATP on PRP-1.)

Classification

Physical Hazard: Not classified. Health Hazard: Not classified.

Label Elements

Symbol: No symbol/No pictogramSignal Word: No signal word

Hazard Statement(s): Not applicable.

Precautionary Statement(s): Not applicable.

Hazards Not Otherwise Classified: Not applicable.

Ingredients(s) with Unknown Acute Toxicity: Not applicable.

3. COMPOSITION AND INFORMATION ON HAZARDOUS INGREDIENTS

Substance: Amorphous synthetic silica gel

Other Designations: Silica, gel, precipitated, crystalline-free

Components are listed in compliance with OSHA's 29 CFR 1910.1200; for the actual values see the NIST Certificate of Analysis.

Hazardous Component(s)	CAS Number	EC Number (EINECS)	Nominal Mass Concentration (%)
Amorphous synthetic silica gel	112926-00-8	not available	99.9

SRM 2907 Part: 0.04 % Semtex 1A Page 1 of 5

4. FIRST AID MEASURES

Description of First Aid Measures:

Inhalation: If adverse effects occur, remove to uncontaminated area. If not breathing, give artificial respiration or oxygen by qualified personnel. Seek immediate medical attention.

Skin Contact: Wash skin with soap and water for at least 15 minutes. Thoroughly clean and dry contaminated clothing before reuse.

Eye Contact: Flush eyes with water for at least 15 minutes. If necessary, seek medical attention.

Ingestion: If a large amount is swallowed, get medical attention.

Most Important Symptoms/Effects, Acute and Delayed: May cause irritation.

Indication of any immediate medical attention and special treatment needed, if necessary: If any of the above symptoms are present, seek medical attention if needed.

5. FIRE FIGHTING MEASURES

Fire and Explosion Hazards: Negligible fire hazard. See Section 9, "Physical and Chemical Properties" for flammability properties.

Extinguishing Media:

Suitable: Use extinguishing agents appropriate for surrounding fire.

Unsuitable: None listed.

Specific Hazards Arising from the Chemical: None listed.

Special Protective Equipment and Precautions for Fire-Fighters: Avoid inhalation of material or combustion byproducts. Wear full protective clothing and NIOSH approved self-contained breathing apparatus (SCBA).

NFPA Ratings (0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe)

Health = 1 Fire = 0 Reactivity = 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures: Use suitable protective equipment; see Section 8, "Exposure Controls and Personal Protection".

Methods and Materials for Containment and Clean up: Collect spilled material in appropriate container for disposal. Avoid generating dust. Clean up residue with a high-efficiency particulate filter vacuum.

7. HANDLING AND STORAGE

Safe Handling Precautions: Minimize dust generation. The use of a particle filter mask is recommended. See Section 8, "Exposure Controls and Personal Protection".

Storage: Store and handle in accordance with all current regulations and standards. Keep separated from incompatible substances (See Section 10, "Stability and Reactivity"). See the Certificate of Analysis for storage information.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits:

OSHA (PEL): $(80)/(\% \text{ SiO2} + 2) \text{ mg/m}^3$

20 mppcf

ACGIH (TLV): No occupational exposure limits available. NIOSH (REL): No occupational exposure limits available.

Engineering Controls: Provide local exhaust or process enclosure ventilation system. Ensure compliance with applicable exposure limits.

SRM 2907 Part: 0.04 % Semtex 1A Page 2 of 5

Personal Protection: In accordance with OSHA 29 CFR 1910.132, subpart I, wear appropriate Personal Protective Equipment (PPE) to minimize exposure to this material.

Respiratory Protection: If workplace conditions warrant a respirator, a respiratory protection program that meets OSHA 29CFR 1910.134 must be followed. Refer to NIOSH 42 CFR 84 for applicable certified respirators.

Eye/Face Protection: Wear splash resistant safety goggles with a face shield. An eye wash station should be readily available near areas of use.

Skin and Body Protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Chemical-resistant gloves should be worn at all times when handling chemicals.

9. PHYSICAL AND CHEMICAL PROPERTIES

Descriptive Properties			
Appearance	colorless to white solid powder;		
(physical state, color, etc.):			
Molecular Formula:	SiO_2		
Molar Mass (g/mol):	60.08		
Odor:	odorless		
Odor threshold:	not available		
pH (solution):	2.3 to 7.4		
Evaporation rate:	not available		
Melting point/freezing point:	1710 °C (3110 °F)		
Relative Density as Specific Gravity	2.1		
(water=1):			
Vapor Pressure (mmHg):	not available		
Vapor Density (air = 1):	not available		
Viscosity (cP):	not available		
Solubility(ies):	insoluble in water; soluble in hydrofluoric		
~~~~~ <del>~</del>	acid and hot fixed alkali hydroxide solution		
Partition coefficient (n-octanol/water):	not available		
Particle Size:	not available		
Thermal Stability Properties			
<b>Autoignition Temperature:</b>	not available		
Thermal Decomposition:	not available		
Initial boiling point and boiling range:	2230 °C (4046 °F)		
<b>Explosive Limits, LEL (Volume %):</b>	not available		
Explosive Limits, UEL (Volume %):	not available		
Flash Point:	not available		
Flammability (solid, gas):	not available		
40. G			
10. STABILITY AND REACTIVITY			
Reactivity: Stable at normal temperatures and press	ure.		
	Unstable		
· <u>——</u>	Ulistable		
Possible Hazardous Reactions: None listed.			
Conditions to Avoid: Avoid generating dust.			
ncompatible Materials: Halogens, acids, metals, metal salts, metal oxides, oxidizing materials, combustible naterials.			
<b>Cire/Explosion Information:</b> See Section 5, "Fire Fighting Measures".			
Hazardous Decomposition: Thermal decomposition will produce crystalline silica.			
Hazardous Polymerization: Will Occur	X Will Not Occur		

SRM 2907 Part: 0.04 % Semtex 1A Page 3 of 5

11. Toxicologic	CAL IN	FORMATION			
Route of Exposure:	X	Inhalation	Skin	X	Ingestion
Symptoms Related to	the Phy	sical, Chemical a	nd Toxicological Cl	haracteristi	<b>cs:</b> Exposure may cause irritation.
	sure to	high concentration possibly nose blee	ns may cause drying a ds. Pulmonary effect		n of mucous membranes of the nose rm exposure may vary based on the
<b>Skin Contact:</b> Exertises.	xposure	may cause irritation	on. Repeated or long	g-term expos	sure may cause drying and abrasive
Eye Contact: Par	rticles n	nay cause immedia	ate irritation.		
<b>Ingestion:</b> No inf	ormatic	on available on sig	nificant adverse effec	cts.	
Numerical Measures o	of Toxic	eity:			
Acute Toxicity: N	ot class	sified; no data avai	lable.		
Skin Corrosion/Ir	ritation	: Not classified;	no data available.		
Serious Eye Dama	ge/Eye	Irritation: Not c	lassified; no data ava	ailable.	
Respiratory Sensi	tization	: Not classified; r	no data available.		
Skin Sensitization	: Not c	lassified; no data a	available.		
Germ Cell Mutag	enicity:	Not classified; no	o data available.		
Carcinogenicity:	Not clas	ssified.			
Amorphous s	ynthetic	gen/Potential Care silica gel is by IA atial carcinogen.		Yes lassifiable a	X No nd is not listed by NTP or OSHA
Reproductive Tox	icity: 1	Not classified; no d	lata available.		
Specific Target O	rgan To	oxicity, Single Exp	posure: Not classifie	ed; no data a	available.
Specific Target O	rgan To	oxicity, Repeated	Exposure: Not clas	sified; no da	ata available.
Aspiration Hazard	d: Not	classified; no data	available.		
12. ECOLOGICAL	Infor	MATION			
Ecotoxicity Data: No of Persistence and Degra Bioaccumulative Poter Mobility in Soil: No deformed Adverse effects:	<b>dability ntial:</b> N ata avai	v: No data availab lo data available. lable.	le.		
13. DISPOSAL COL	NSIDEI	RATIONS			
Waste Disposal: Dispo	ose of w	vaste in accordance	e with all applicable	federal, state	e, and local regulations.
14. TRANSPORTA	TION I	NFORMATION			
U.S. DOT and IATA:	Not re	gulated by DOT	or IATA.		
15. REGULATORY	Infoi	RMATION			
U.S. Regulations:  CERCLA Sections 1			•		

SARA Title III Section 302 (40 CFR 355.30): Not regulated.

SARA Title III Section 304 (40 CFR 355.40): Not regulated.

SARA Title III Section 313 (40 CFR 372.65): Not regulated.

Page 4 of 5 SRM 2907 Part: 0.04 % Semtex 1A

OSHA Process Safety (29 CFR 1910.119): Not regulated.

SARA Title III Sections 311/312 Hazardous Categories (40 CFR 370.21):

ACUTE HEALTH: No. CHRONIC HEALTH: No. FIRE: No. REACTIVE: No. PRESSURE: No.

**State Regulations:** 

California Proposition 65: Not listed.

U.S. TSCA Inventory: Listed.

TSCA 12(b), Export Notification: Not listed.

**Canadian Regulations:** 

WHMIS Information: Not provided for this material.

### 16. OTHER INFORMATION

Issue Date: 10 April 2015

**Sources:** ChemAdvisor, Inc., SDS *Amorphous Synthetic Silica Gel*, 20 March 2015.

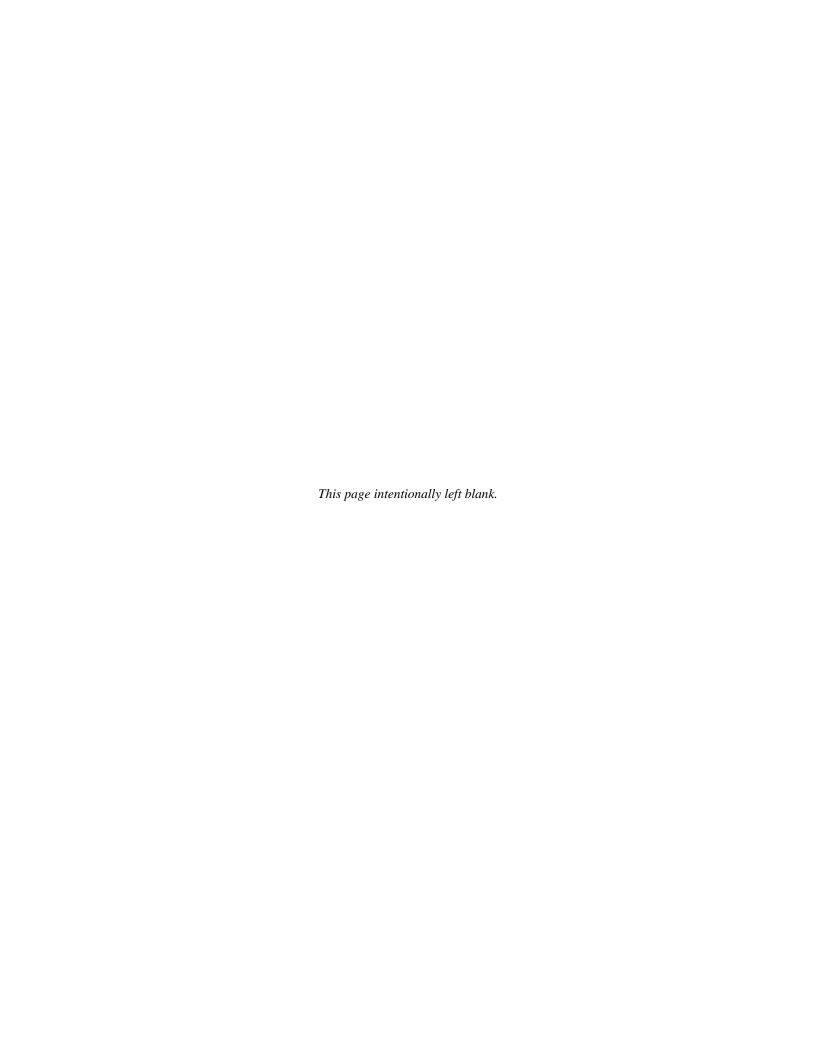
## **Key of Acronyms:**

ACGIH	American Conference of Governmental Industrial	NIOSH	National Institute for Occupational Safety and Health
ATT	Hygienists	NICT	
ALI	Annual Limit on Intake	NIST	National Institute of Standards and Technology
CAS	Chemical Abstracts Service	NRC	Nuclear Regulatory Commission
CEN	European Committee for Standardization	NTP	National Toxicology Program
CERCLA	Comprehensive Environmental Response,	OSHA	Occupational Safety and Health Administration
	Compensation, and Liability Act		
CFR	Code of Federal Regulations	PEL	Permissible Exposure Limit
CPSU	Coal Mine Dust Personal Sample Unit	RCRA	Resource Conservation and Recovery Act
DOT	Department of Transportation	REL	Recommended Exposure Limit
EC50	Effective Concentration, 50 %	RM	Reference Material
EINECS	European Inventory of Existing Commercial	RQ	Reportable Quantity
	Chemical Substances		
EPCRA	Emergency Planning and Community Right-to-Know	RTECS	Registry of Toxic Effects of Chemical Substances
	Act		ξ ,
IARC	International Agency for Research on Cancer	SARA	Superfund Amendments and Reauthorization Act
IATA	International Air Transportation Agency	SCBA	Self-Contained Breathing Apparatus
IDLH	Immediately Dangerous to Life and Health	SRM	Standard Reference Material
ISO	International Organization for Standardization	STEL	Short Term Exposure Limit
LC50	Lethal Concentration, 50 %	TDLo	Toxic Dose Low
LD50	Lethal Dose, 50 %	TLV	Threshold Limit Value
LEL	Lower Explosive Limit	TPO	Threshold Planning Quantity
MSDS	Material Safety Data Sheet	TSCA	Toxic Substances Control Act
NFPA	National Fire Protection Association	TWA	Time Weighted Average
MSHA		UEL	5 5
MSHA	Mine Safety and Health Administration		Upper Explosive Limit
		WHMIS	Workplace Hazardous Materials Information System

**Disclaimer:** Physical and chemical data contained in this SDS are provided only for use in assessing the hazardous nature of the material. The SDS was prepared carefully, using current references; however, NIST does not certify the data in the SDS. The certified values for this material are given in the NIST Certificate of Analysis.

Users of this SRM should ensure that the SDS in their possession is current. This can be accomplished by contacting the SRM Program: telephone (301) 975-2200; fax (301) 948-3730; e-mail srmmsds@nist.gov; or via the Internet at http://www.nist.gov/srm.

SRM 2907 Part: 0.04 % Semtex 1A Page 5 of 5





## SAFETY DATA SHEET

## 1. SUBSTANCE AND SOURCE IDENTIFICATION

**Product Identifier** 

**SRM Number:** 2907

**SRM Name:** Trace Terrorist Explosives Simulants

**SRM Part:** 0.4 % TATP (TATP is of a nominal mass fraction of 0.4 % on PRP-1.)

Other Means of Identification: Not applicable.

## Recommended Use of This Material and Restrictions of Use

This Standard Reference Material (SRM) is a surrogate for explosives residues and is intended for use in evaluating analytical equipment used for the detection of trace explosives. SRM 2907 consists of two non-explosive materials prepared from inert particles that are coated with trace levels of explosives. A unit of SRM 2907 consists of individual plastic squeeze bottles each containing approximately 1 g of the two trace terrorist explosives simulant material.

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 (International)

Website: http://www.nist.gov/srm

### 2. HAZARDS IDENTIFICATION

**Note:** This SDS is for 0.4 % TATP on PRP-1.; see additional SDS for the classification for 0.04 % Semtex A1on C₁₈ Silica.

Classification

**Physical Hazard:** Not classified. **Health Hazard:** Not classified.

**Label Elements** 

**Symbol:** No symbol/No pictogram **Signal Word:** No signal word

**Hazard Statement(s):** Not applicable.

**Precautionary Statement(s):** Not applicable.

Hazards Not Otherwise Classified: Not applicable.

Ingredients(s) with Unknown Acute Toxicity: Not applicable.
Ingredients(s) with Unknown Acute Toxicity: Not applicable.

SRM 2907 Part: 0.4 % TATP Page 1 of 5

## 3. COMPOSITION AND INFORMATION ON HAZARDOUS INGREDIENTS

Substance: Poly(styrene divinylbenzene) polymer

Other Designations: Divinylbenzene-styrene copolymer; styrene divinyl benzene; Styrene/DVB copolymer

Components are listed in compliance with OSHA's 29 CFR 1910.1200; for the actual values see the NIST Certificate of Analysis.

Hazardous Component(s)	CAS Number	EC Number (EINECS)	Nominal Mass Concentration (%)
Poly(styrene divinylbenzene) polymer	9003-70-7	not available	100

### 4. FIRST AID MEASURES

### **Description of First Aid Measures:**

**Inhalation:** If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. Get immediate medical attention.

**Skin Contact:** Wash skin with soap and water for at least 15 minutes. Thoroughly clean and dry contaminated clothing before reuse.

Eye Contact: Flush eyes with water for at least 15 minutes. If necessary, seek medical attention.

**Ingestion:** If a large amount is swallowed, get medical attention.

Most Important Symptoms/Effects, Acute and Delayed: Irritation.

**Indication of any immediate medical attention and special treatment needed, if necessary:** If any of the above symptoms are present, seek medical attention if needed.

## 5. FIRE FIGHTING MEASURES

**Fire and Explosion Hazards:** Slight fire hazard. Generated dust/air particles may ignite or explode. See Section 9, "Physical and Chemical Properties" for flammability properties.

## **Extinguishing Media:**

Suitable: Use regular dry chemical, carbon dioxide, water, or regular foam.

Unsuitable: None listed.

**Specific Hazards Arising from the Chemical:** None listed.

**Special Protective Equipment and Precautions for Fire-Fighters:** Avoid inhalation of material or combustion byproducts. Wear full protective clothing and NIOSH approved self-contained breathing apparatus (SCBA).

**NFPA Ratings** (0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe)

Health = 1 Fire = 1 Reactivity = 0

#### 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment and Emergency Procedures:** Use suitable protective equipment; see Section 8, "Exposure Controls and Personal Protection".

Methods and Materials for Containment and Clean up: Collect spilled material in appropriate container for disposal. Keep out of water supplies and sewers. Keep unnecessary people away, isolate hazard area and deny entry.

### 7. HANDLING AND STORAGE

**Safe Handling Precautions:** Avoid generating dust. The use of a particle filter mask is recommended. See Section 8, "Exposure Controls and Personal Protection".

**Storage:** Store and handle in accordance with all current regulations and standards. Keep separated from incompatible substances (See Section 10, "Stability and Reactivity"). See Certificate of Analysis for storage information.

SRM 2907 Part: 0.4 % TATP Page 2 of 5

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Exposure Limits:** No occupational exposure limits available.

**Engineering Controls:** Provide local exhaust or process enclosure ventilation system. Ensure compliance with applicable exposure limits.

**Personal Protection:** In accordance with OSHA 29 CFR 1910.132, subpart I, wear appropriate Personal Protective Equipment (PPE) to minimize exposure to this material.

**Respiratory Protection:** If workplace conditions warrant a respirator, a respiratory protection program that meets OSHA 29CFR 1910.134 must be followed. Refer to NIOSH 42 CFR 84 for applicable certified respirators.

**Eye/Face Protection:** Wear splash resistant safety goggles with a face shield. An eye wash station should be readily available near areas of use.

**Skin and Body Protection:** Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Chemical-resistant gloves should be worn at all times when handling chemicals.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Incompatible Materials: Oxidizing materials.

<b>Descriptive Properties</b>	
Appearance	white to off-white powder
(physical state, color, etc.):	(2.22)
Molecular Formula:	$(C_{18}H_{18})x$
Molar Mass (g/mol):	(234.35)x
Odor:	odorless
Odor threshold:	not available
pH (solution):	not available
Evaporation rate:	not available
Melting point/freezing point (°C):	not available
Relative Density	1.1 g/mL
Vapor Pressure (mmHg):	17 mmHg at 20 °C
<b>Vapor Density (air = 1):</b>	not available
Viscosity (cP):	not available
Solubility(ies):	insoluble in water
Partition coefficient (n-octanol/water):	not available
Particle Size:	not available
Thermal Stability Properties	
Autoignition Temperature (°C):	not available
Thermal Decomposition (°C):	not available
Initial boiling point and boiling range (°C):	not available
Explosive Limits, LEL (Volume %):	not available
Explosive Limits, UEL (Volume %):	not available
Flash Point (°C):	not available
Flammability (solid, gas):	not available
10. STABILITY AND REACTIVITY	
Reactivity: Stable at normal temperatures and pressu	re.
Stability: X Stable U	Instable
Possible Hazardous Reactions: None listed.	
Conditions to Avoid: Avoid heat, flames, sparks an	nd other sources of ignition. Avoid contact with incompatible

SRM 2907 Part: 0.4 % TATP Page 3 of 5

Fire/Explosion Information: S	See Section 5, "Fire Figh	ting Me	asures".
Hazardous Decomposition: The composition of the com	hermal decomposition wi	ill prodı	ace miscellaneous decomposition products.
Hazardous Polymerization:	Will Occur	X	Will Not Occur
11. TOXICOLOGICAL INF	ORMATION		
Route of Exposure: X	Inhalation X	Skin	Ingestion
Symptoms Related to the Phys	sical, Chemical and Tox	icologi	cal Characteristics: Exposure may cause irritation.
Potential Health Effects (Acut Inhalation: May cause in cough.	,	,	and mucous membranes May produce congestion or
Skin Contact: May cause	mechanical irritation.		
Eye Contact: May cause	mechanical irritation.		
Ingestion: No information	n available.		
Numerical Measures of Toxici	ty:		
Acute Toxicity: Not classi	fied; no data available.		
Skin Corrosion/Irritation:	Not classified; no data	availab	le.
Serious Eye Damage/Eye	Irritation: Not classifie	d; no da	ata available.
Respiratory Sensitization:	Not classified; no data	availabl	e.
Skin Sensitization: Not cla	assified; no data availabl	e.	
Germ Cell Mutagenicity:	Not classified; no data a	vailable	».
Carcinogenicity: Not class	sified.		
	gen/Potential Carcinoge enzene) polymer is not lis		Yes X No CARC, NTP, or OSHA as a carcinogen/potential
Reproductive Toxicity: No	ot classified; no data avai	lable.	
Specific Target Organ To	xicity, Single Exposure:	Not cl	assified; no data available.
Specific Target Organ To	xicity, Repeated Exposu	ire: No	ot classified; no data available.
Aspiration Hazard: Not c	lassified; no data availab	le.	
12. ECOLOGICAL INFORM	MATION		
Ecotoxicity Data: No data avai	lable.		
Persistence and Degradability:	No data available.		
Bioaccumulative Potential: No	o data available.		
Mobility in Soil: No data availa	able.		
Other Adverse effects: No data	a available.		
13. DISPOSAL CONSIDER	ATIONS		
Waste Disposal: Dispose of wa	aste in accordance with a	ll appli	cable federal, state, and local regulations.
14 Thangpore From In	TODALITION		

# 14. TRANSPORTATION INFORMATION

U.S. DOT and IATA: Not regulated by DOT or IATA.

Part: 0.4 % TATP Page 4 of 5 SRM 2907

### 15. REGULATORY INFORMATION

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

CERCLA Sections 102a/103 (40 CFR 302.4): Not regulated.

SARA Title III Section 302 (40 CFR 355.30): Not regulated.

SARA Title III Section 304 (40 CFR 355.40): Not regulated.

SARA Title III Section 313 (40 CFR 372.65): Not regulated.

OSHA Process Safety (29 CFR 1910.119): Not regulated.

SARA Title III Sections 311/312 Hazardous Categories (40 CFR 370.21):

ACUTE HEALTH: No. CHRONIC HEALTH: Yes. FIRE: No. REACTIVE: No. PRESSURE: No.

**State Regulations:** 

California Proposition 65: Not listed.

U.S. TSCA Inventory: Listed.

TSCA 12(b), Export Notification: Not listed.

**Canadian Regulations:** 

WHMIS Information: Not provided for this material.

## **16. OTHER INFORMATION**

Issue Date: 10 April 2015

**Sources:** ChemAdvisor, Inc., SDS *Styrene-Divinylbenzene Co-Polymer*, 20 March 2015.

### **Key of Acronyms:**

American Conference of Governmental Industrial	NIOSH	National Institute for Occupational Safety and
• •		Health
	NIST	National Institute of Standards and Technology
Chemical Abstracts Service	NRC	Nuclear Regulatory Commission
European Committee for Standardization	NTP	National Toxicology Program
Comprehensive Environmental Response,	OSHA	Occupational Safety and Health Administration
Compensation, and Liability Act		
Code of Federal Regulations	PEL	Permissible Exposure Limit
Coal Mine Dust Personal Sample Unit	RCRA	Resource Conservation and Recovery Act
Department of Transportation	REL	Recommended Exposure Limit
Effective Concentration, 50 %	RM	Reference Material
European Inventory of Existing Commercial	RQ	Reportable Quantity
Chemical Substances	-	•
Emergency Planning and Community Right-to-Know	RTECS	Registry of Toxic Effects of Chemical Substances
Act		•
International Agency for Research on Cancer	SARA	Superfund Amendments and Reauthorization Act
International Air Transportation Agency	SCBA	Self-Contained Breathing Apparatus
Immediately Dangerous to Life and Health	SRM	Standard Reference Material
International Organization for Standardization	STEL	Short Term Exposure Limit
Lethal Concentration, 50 %	TDLo	Toxic Dose Low
Lethal Dose, 50 %	TLV	Threshold Limit Value
Lower Explosive Limit	TPO	Threshold Planning Quantity
Material Safety Data Sheet	TSCA	Toxic Substances Control Act
National Fire Protection Association	TWA	Time Weighted Average
		<i>- - - - - - - - - -</i>
Mine Safety and Health Administration	UEL	Upper Explosive Limit
	Hygienists Annual Limit on Intake Chemical Abstracts Service European Committee for Standardization Comprehensive Environmental Response, Compensation, and Liability Act Code of Federal Regulations Coal Mine Dust Personal Sample Unit Department of Transportation Effective Concentration, 50 % European Inventory of Existing Commercial Chemical Substances Emergency Planning and Community Right-to-Know Act International Agency for Research on Cancer International Air Transportation Agency Immediately Dangerous to Life and Health International Organization for Standardization Lethal Concentration, 50 % Lethal Dose, 50 % Lower Explosive Limit Material Safety Data Sheet	Hygienists Annual Limit on Intake Annual Limit on Intake Chemical Abstracts Service European Committee for Standardization Comprehensive Environmental Response, Compensation, and Liability Act Code of Federal Regulations Coal Mine Dust Personal Sample Unit Personal Sample Unit Effective Concentration, 50 % RM European Inventory of Existing Commercial RQ Chemical Substances Emergency Planning and Community Right-to-Know Act International Agency for Research on Cancer International Air Transportation Agency Immediately Dangerous to Life and Health International Organization for Standardization Lethal Concentration, 50 % Lower Explosive Limit Material Safety Data Sheet  NIST NRC NRC RCRA PEL RCRA PEL RCRA PEL RCRA PEL RCRA PEL RCRA RA RA RA EL BEL RCRA RA RA SEL RCRA RA RA SEL RCRA RA RA RA SEL RCRA RA RA RA RA RA RTECS RTECS RA

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