

Revision number: 1 Revision date: 07/06/2018

1. IDENTIFICATION

Product name: Product code:

Product use: **Restrictions on use:**

Company: TCI America 9211 N. Harborgate Street Portland, OR 97203 U.S.A. Telephone: +1-800-423-8616 / +1-503-28 Fax: +1-888-520-1075 / +1-503-28 e-mail: sales-US@TCIchemicals.con www.TCIchemicals.com

2. HAZARD(S) IDENTIFIC

OSHA Haz Com: CFR 1910.1

WHMIS 2015:

SAFETY	DATA	SHE

P0862

EET

2,3,4,5,6-Pentafluorostyrene (stabilized with TBC)

	For laboratory research purposes. Not for drug or household use.	
283-1681 283-1987 m		Emergency telephone number: Chemical Emergencies: TCI America (8:00am - 5:00pm) PST +1-503-286-7624 Transportation Emergencies: Chemtrec 24-Hour +1-800-424-9300 (U.S.A.) +1-703-527-3887 (International) Responsible department: TCI America Environmental Health Safety and Security +1- 503-286-7624
CATION		
1200:	Flammable Liquids [Category 3]	
	Warning!	
	Flammable liquid and vapor	

Signal word: Hazard Statement(s): Pictogram(s) or Symbol(s): Precautionary Statement(s): [Prevention] Keep away from heat, sparks, open flames and hot surfaces. - No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves, eye protection. [Response] If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. [Storage] Store in a well-ventilated place. Keep cool. Dispose of contents and container in accordance with local, regional, national regulations (e.g. US: 40 [Disposal] CFR Part 261, EU:91/156/EEC, JP: Waste Disposal and Cleaning Act, etc.). Hazards not otherwise classified: May cause polymerization. [HNOC]

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Components: Percent: CAS RN: Molecular Weight: **Chemical Formula:** Synonyms: Stabilizers:

Substance 2,3,4,5,6-Pentafluorostyrene (stabilized with TBC) >98.0%(GC) 653-34-9 194.10 C₈H₃F₅ 2,3,4,5,6-Pentafluorovinylbenzene (stabilized with TBC) 4-tert-butylcatechol

4. FIRST-AID MEASURES	
Description of first aid measures	
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical
Skin contact:	advice/attention if you feel unwell. Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation
Eye contact:	or rash occurs: Get medical advice/attention. 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:	Get medical advice/attention if you feel unwell. Rinse mouth.
Symptoms/effects:	
Acute:	No data available No data available
Delayed:	
Indication of any immediate medical atte	ention:
Not available. Notes to physician:	
No data available	
5. FIRE-FIGHTING MEASURES	
Suitable extinguishing media:	Dry chemical, foam, water spray, carbon dioxide.
Unsuitable extinguishing media:	Solid streams of water
Specific hazards arising from the	This substance may polimerize explosively when heated or involved in a fire. Container may explode
chemical:	when heated. Combat fire from a sheltered position. Take care as it may decompose upon combustion
Hazardous combustion products:	or in high temperatures to generate poisonous fume. These products include: Carbon oxides Halogenated compounds
Other specific hazards:	WARNING: Highly toxic HF gas is produced during combustion.
Advice for firefighters:	Wear self-contained breathing apparatus if possible.
6. ACCIDENTAL RELEASE MEASU	RES
Personal precautions, protective equipment and emergency procedures:	Use extra personal protective equipment (self-contained breathing apparatus). Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be
equipment and emergency procedures.	controlled around the leakage area by roping off, etc.
Environmental precautions: Methods and materials for containment	Prevent product from entering drains. Absorb spilled material in dry sand or inert absorbent before recovering it into a covered container. In
and cleaning up:	case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be
Prevention of secondary hazards:	promptly disposed of, in accordance with appropriate laws and regulations. Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use
Frevention of Secondary hazards.	spark-proof tools and explosion-proof equipment.
7. HANDLING AND STORAGE	
7. HANDLING AND STORAGE	
Precautions for safe handling:	Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent
	generation of vapour or mist. Keep away from heat/sparks/open flame/hot surfacesNo smoking. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Wash hands
	and face thoroughly after handling.
	Use a closed system if possible. Use a ventilation, local exhaust if vapour or aerosol will be generated. Avoid contact with skin, eyes and clothing.
Conditions for safe storage, including a	ny incompatibilities
Storage conditions:	Keep container tightly closed. Store in an explosion-poof refregerator. Store under inert gas.
	Store away from incompatible materials such as oxidizing agents.
Packaging material:	Heat-sensitive Air-sensitive Comply with laws.
8. EXPOSURE CONTROLS / PERSC	INAL PROTECTION
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Appropriate engineering controls:	Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed system or local exhaust. Also install safety shower and eye bath.
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Personal protective equipment	

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Respiratory protection:	Vapor respirator. Follow local and national regulations.
Hand protection:	Protective gloves.
Eye protection:	Safety glasses. A face-shield, if the situation requires.
Skin and body protection:	Protective clothing. Protective boots, if the situation requires.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Form: Colour: Odour: Odor threshold: Odour threshold:	Liquid Clear Colorless - Slightly pa No data available No data available No data available No data available	ale yellow		
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic viscosity: Log Pow:	No data available 140°C (284°F) No data available 1.43 No data available No data available	pH: Vapour pressure: Vapour density: Dynamic Viscosity: Evaporation rate(Butyl Acetate=1):	No data available No data available. No data available No data available No data available	
Flash point: Flammability(solid, gas):	34°C (93°F) No data available	Autoignition temperature: Flammability or explosive limits: Lower: Upper:	No data available No data available No data available	
Solubility(ies): [Water] [Other solvents] Soluble:	Insoluble Methanol			
10. STABILITY AND REACTIVITY				
Reactivity: Chemical stability: Possibility of hazardous reactio Conditions to avoid: Incompatible materials: Hazardous decomposition prod	such as peroxides etc. ns: No special reactivity have Heat, Spark, Open flar Oxidizing agents	Polymerization may occur under the influences of heat, light or on contact with polymerization initiators such as peroxides etc. No special reactivity has been reported. Heat, Spark, Open flame, Static discharge, Light		

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: No data available

Skin corrosion/irritation: No data available

Serious eye damage/irritation: No data available

Respiratory or skin sensitization: No data available

Germ cell mutagenicity: No data available

Carcinogenicity: No data available

IARC: No data available

Reproductive toxicity: No data available

Target organ(s):

No data available

NTP:

No data available

OSHA: No data available

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Fish: No data available Crustacea: No data available Algae: No data available Persistence / degradability: No data available Bioaccumulative potential(BCF): No data available Mobility in soil Image: No data available Log Pow: No data available Soil adsorption (Koc): No data available	Ecotoxicity:	
Algae: No data available Persistence / degradability: No data available Bioaccumulative potential(BCF): No data available Mobility in soil No data available Log Pow: No data available	Fish:	No data available
Persistence / degradability: No data available Bioaccumulative potential(BCF): No data available Mobility in soil Image: Comparison of the second	Crustacea:	No data available
Bioaccumulative potential(BCF): No data available Mobility in soil Log Pow: No data available	Algae:	No data available
Iobility in soil No data available	Persistence / degradability:	No data available
	• • • •	No data available
Soil adsorption (Koc): No data available	Log Pow:	No data available
	Soil adsorption (Koc):	No data available
Henry's Law (PaM ³ /mol): No data available	Henry's Law (PaM ³ /mol):	No data available
	13. DISPOSAL CONSIDERATION	IS
13. DISPOSAL CONSIDERATIONS	Disposal of product:	Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and

TCI AMERICA

Disposal of product: Disposal of container:	Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not be allowed to enter the environment, drains, water ways, or the soil. Dispose of as unused product. Do not re-use empty containers.
Other considerations:	Observe all federal, state and local regulations when disposing of the substance.

14. TRANSPORT INFORMATION

DOT (US) UN number: UN1993	Proper Shipping Name: Flammable liquids, n.o.s	Class or Division: 3 Flammable liquid	Packing Group: III
IATA UN number: UN1993	Proper Shipping Name: Flammable liquid, n.o.s	Class or Division: 3 Flammable liquid	Packing Group:
IMDG UN UN1993 numb er:	Proper Shipping Name: Flammable liquid, n.o.s	Class or Division: 3 Flammable liquid	Packing Group: III
EmS number:	F-E, S-E		

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.):

This product is NOT on the EPA Toxic Substances Control Act (TSCA) inventory. The following notices are required by 40 CFR 720.36 (C) for those products not on the inventory list:

(i) These products are supplied solely for use in research and development by or under the supervision of a technically qualified individual as defined in 40 CFR 720.0 et sec.

(ii) The health risks of these products have not been fully determined. Any information that is or becomes available will be supplied on a SDS sheet.

US Federal Regulations

CERCLA Hazardous substance and Reportable Quantity: Not Listed SARA 313: SARA 302: Not Listed State Regulations State Right-to-Know Massachusetts Not Listed **New Jersey** Not Listed Pennsylvania Not Listed **California Proposition 65:** Not Listed Other Information **NFPA Rating: HMIS Classification:** Health: 0 Health: Flammability: Flammability: 3 Instability: 0 Physical: International Inventories EC-No: 211-500-5

16. OTHER INFORMATION

Revision date: 07/06/2018

Revision number: 1

TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.

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