



SAFETY DATA SHEET

Revision Date: 04/06/15

Section 1: Identification

Product Identifier on the Label:	Vinyl toluene	Product Number:	M-102
Synonyms:	N/A	Molecular Formula:	C ₉ H ₁₀
CAS#:	25013-15-4	Index No.:	N/A

Recommended use of the chemical and restrictions on use:

Identified Uses: Laboratory chemicals, manufacture of substances
Restrictions on Use: Not for drug or household use

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party:

Scientific Polymer Products, Inc.
6265 Dean Parkway, Ontario, NY 14519

Information Telephone#: 585-265-0413 (8 AM to 5 PM, EST, Monday to Friday)
Information Fax#: 585-265-1390 (8 AM to 5 PM, EST, Monday to Friday)

24 Hr. Emergency Telephone#: Chem Tel (Day or Night) 800-255-3924

Section 2: Hazards Identification

Emergency Overview:

Color: Colorless **Physical State:** Liquid **Odor:** Not available

***GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):**

H226 Flammable Liquids, Category 3
H332 Acute Toxicity, Category 4
H315 Skin Irritation, Category 2
H319 Eye Irritation, Category 2A
H335 Specific Target Organ Toxicity – Single Exposure, Category 3, Respiratory System
H304 Aspiration Hazard, Category 1
H401 Acute Aquatic Toxicity, Category 2

*For the full text of the H-Statements mentioned in this Section, see Section 16

GHS-Labeling:

Hazard Pictogram(s)



Signal Word: Danger

Hazard Statement(s):

H226	Flammable liquids, Category 3
H332	Acute toxicity, Inhalation, Category 4
H315	Skin Irritation, Category 2
H319	Eye Irritation, Category 2A
H335	Specific Target Organ Toxicity, Single Exposure, Category 3, Respiratory System
H304	Aspiration Hazard, Category 1
H401	Acute Aquatic Toxicity, Category 2

Precautionary Statement(s):

P210	Keep away from heat/sparks/open flames/hot surfaces. 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 precautionary measures against static discharge
P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P264	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+P312	IF INHALED, remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
P305+P351+P338	IF IN EYES, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P331	Do NOT induce vomiting
P332+P313	If skin irritation occurs, get medical advice/attention
P337+P313	If eye irritation persists, 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
P403+P223	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

Section 3: Composition/Information on Ingredients

EC-No.:	246-562-2	Index No.:	Not available
Chemical Name	CAS-No.	(%)	GHS Classification*
Vinyl toluene	25013-15-4	>98	Flammable Liquid, 3; Acute Toxicity, 4; Skin Irritation, 2; Eye Irritation, 2A; STOT SE, 3; Aspiration Toxicity, 1; Aquatic Acute, 2; H226, H304, H315, H319, H332, H335, H401

*For the full text of the H-Statements mentioned in this Section, see Section 16

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.

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

Skin Contact: Wash off with soap and plenty of water. Consult a physician.
Eye Contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Ingestion: 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 2.2) and/or Section 11.

Indication of Any Immediate Medical Attention and Special Treatment Needed: No data available

Section 5: Fire-Fighting Measures

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 Fire-Fighting: Wear self-contained breathing apparatus for fire-fighting 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 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).

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 measures to prevent the build-up of electrostatic charge. For precautions see Section 2.2.

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.

Recommended Storage Temperature: 2-8°C
Storage Class (TRGS 510): Flammable liquids

Specific End-Use(s): Apart from the uses mentioned in Section 1.2 no other specific uses are stipulated.

Section 8: Exposure Controls/Personal Protection

Control Parameters

Components with Workplace Control Parameters:

Component	CAS-No.	Value	Control Parameters	Basis	
Vinyl Toluene	25013-15-4 Remarks:	TWA	50 ppm	USA. ACGIH Threshold Limit Values (TLV)	
		Upper Respiratory Tract Irritation			
		Eye Irritation			
		Not classifiable as a human carcinogen			
		TWA	50.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)	
		Upper Respiratory Tract Irritation			
		Eye Irritation			
		Not classifiable as a human carcinogen			
		STEL	100.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)	
		Upper Respiratory Tract Irritation			
		Eye Irritation			
		Not classifiable as a human carcinogen			
STEL	100 ppm	USA. ACGIH Threshold Limit Values (TLV)			
Upper Respiratory Tract Irritation					
Eye Irritation					
Not classifiable as a human carcinogen					
TWA	100.000000 ppm	USA. Occupational Exposure Limits			
	480.000000 mg/m3	OSHA- Table Z-1 Limits for Air Contaminants			
The value in mg/m3 is approximate					
TWA	100.000000 ppm	USA. NIOSH Recommended Exposure Limits			
	480.000000 m/m3				

Exposure Controls:

Appropriate Engineering Controls: Handle in accordance with good industrial hygiene and safety practices. Wash hands before breaks and at the end of the workday.

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 or 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

Appearance:	Liquid	Odor:	No data available
Para (%):	40	Meta Isomers (%):	60
Mw:	118.18	Specific Gravity:	0.8930 (25°C)
Bp (C):	168	Tm (C):	-77
Refractive Index:	n_D^{25} 1.539	Viscosity:	0.837 cp (20C)
Fp (F):	137	Upper Explosion Limit:	5.2% (Volume)
Lower Explosion Limit:	1.1% (Volume)	Vapor Pressure:	1.5 mmHg (20°C)
Solubility in Water:	ca.0.090 g/l (25°C)		

Section 10: Stability and Reactivity

Reactivity: No data available

Chemical Stability: Stable under recommended storage conditions. Contains the following stabilizers.
tert-Butylpyrocatechol (0.005%)

Possibility of Hazardous Reactions: No data available
Conditions to Avoid: Heat, flames and sparks
Incompatible Materials: Strong oxidizing agents, strong acids
Hazardous Decomposition Products: No data available. In the event of a fire, see Section 5.

Section 11: Toxicological Information

Information on Toxicological Effects:

Acute Toxicity: Oral LD50 (Rat): 3,275 mg/kg
Inhalation LC50 (Rat): 16.891 mg/l – 4 h
Dermal LD50 (Rabbit): >4,400 mg/kg

Skin Corrosion/Irritation: Skin (Rabbit): Skin irritation
Serious Eye Damage/Eye Irritation: Eyes (Rabbit): Eye irritation (Draize test)
Respiratory or Skin Sensitization: No data available

Germ Cell Mutagenicity: Mouse/Lymphocyte (Mutation in mammalian somatic cells)
Mouse/Lymphocyte (Micronucleus test)

Carcinogenicity:

IARC: 3-Group 3: Not classifiable as to its carcinogenicity to humans (Vinyl toluene)

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.

Reproductive Toxicity:

Developmental Toxicity – Rat – Intraperitoneal: Effects on Embryo of Fetus: Fetotoxicity (except death, e.g., stunted fetus)

Specific Target Organ Toxicity – Single Exposure: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

Specific Target Organ Toxicity – Repeated Exposure: No data available
Aspiration Hazard: May be fatal if swallowed and enters airways

Additional Information:
RTECS: Not available

May cause irritation of the eyes and skin. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea, peripheral neuropathy. Central nervous system. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12: Ecological Information

Toxicity:
Toxicity to Fish: Static test LC50 – Pimephales promelas (fathead minnow) – 5.2 mg/l – 96 h (OECD Test Guideline 203)

Toxicity to Daphnia and Other Aquatic Invertebrates:
Immobilization EC50 – Daphnia magna (Water Flea) – 1.3 mg/l – 48 h (OECD Test Guideline 202)

Toxicity to Algae:
Growth inhibition EC50 – Selenastrum capricornutum (green algae) – 2.6 mg/l – 72 h. (OECD Test Guideline 201)

Persistence & Degradability: No data available

Bioaccumulation Potential: Lepomis macrochirus (Bluegill sunfish) – 30 d – 0.25 mg/l
Bioconcentration factor (BCF): 96

Mobility in Soil: No data available

Results of PBT and vPvB Assessment:
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

Other Adverse Effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life with long lasting effects.

Section 13: Disposal Considerations

Do not dump into any sewers, on the ground, or into any body of water. All disposal practices must be in compliance with all Federal, State/Provincial and Local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility SOLELY of the waste generator. Scientific Polymer Products, Inc. has no control over the management practices or manufacturing processes of parties handling or using this material. The information presented here pertains ONLY to the product as shipped in its intended condition described in Section 2.

Section 14: Transport Information

US DOT:	Proper Shipping Name: Vinyltoluenes, stabilized	Hazard Class: 3
	Packing Group: III	UN#: 2618
	Poison Inhalation Hazard: No	
IATA:	Proper Shipping Name: Vinyltoluenes, stabilized	Hazard Class: 3
	Packing Group: III	UN#: 2618

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:

This material does not contain any chemical components with known CAS number that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Massachusetts Right-to-Know Components:

Vinyl toluene, CAS# 25013-15-4

Pennsylvania Right-to-Know Components:

Vinyl toluene, CAS# 25013-15-4

New Jersey Right-to-Know Components:

Vinyl toluene, CAS# 25013-15-4

California Proposition 65: This product does not contain any chemicals to the State of California to cause cancer, birth defects, or any other reproductive harm.

TSCA Status: Listed

Section 16: Other Information

Full Text of H-Statements referred to under Section 2 and 3.

H226	Flammable liquid and vapor
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled
H401	Toxic to aquatic fish
STOT SE	Specific Target Organ Toxicity – Single Exposure

This material is intended for laboratory use ONLY. It is not sold or intended for drug, household or other uses. The information represents the most accurate and complete data available to us. However, we make NO warranty, express or implied, with respect to such information, and we assure no liability resulting from its use.

NFPA		HMIS	
Health	2	Health	2
Fire	2	Flammability	2
Instability	0	Physical Hazards	0