



# Material Safety Data Sheet

## Vinyl Toluene

Version: 2.0 EN  
Revision Date: 2025-1

### SECTION 1: IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

#### 1.1 Product identifiers

Product Name Vinyl Toluene  
CAS No 25013-15-4  
Synonyms Methylstyrene, Vinyltoluene

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Chemical intermediate, For research and industrial use only

#### 1.3 Details of the supplier of the safety data sheet

Company China lithium Products technology Company Limited  
9 HG, No.99 LuJiang Road, Xiamen city, China  
Telephone +86 592 2687860  
Email info@lithium-chemical.com

#### 1.4 Emergency telephone number

Emergency phone # +86 592 2687860

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

##### Classification according to Regulation (EC) No 1272/2008

Flammable liquids (Category 3), H226  
Acute toxicity, Inhalation (Category 4), H332  
Skin irritation (Category 2), H315  
Eye irritation (Category 2), H319  
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335  
Aspiration hazard (Category 1), H304

#### 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word Danger

##### Hazard Statements

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
H335	May cause respiratory irritation

#### **Precautionary Statements**

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P301 + P310 + P331	IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting
P302 + P352	IF ON SKIN: Wash with plenty of water
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor 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

#### **Hazard Statements**

No data available

#### **Precautionary Statements**

No data available

#### **Supplemental Hazard Statements**

None

### **2.3 Physical and chemical hazards**

Referring to current information, no physical or chemical hazard

#### **Other hazards**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher

## **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

### **3.1 Substances**

Substance name	Vinyl Toluene
Formula	C <sub>9</sub> H <sub>10</sub>
CAS No	25013-15-4
EC No	246-562-2

**Hazardous ingredients:** Vinyl toluene, Classification: Flam. Liq. 3; Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; Asp. Tox. 1; H226, H332, H315, H319, H335, H304; Concentration: <= 100 %

## **SECTION 4: FIRST AID MEASURES**

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

#### **General notes**

Show this material safety data sheet to the doctor in attendance

#### **If inhaled**



fresh air. Call in 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

**4.2 Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11

**4.3 Indication of any immediate medical attention and special treatment needed**

No data available

**SECTION 5: FIREFIGHTING MEASURES**

**5.1 Extinguishing media**

**Suitable extinguishing media**

Dry powder Dry sand

**Unsuitable extinguishing media**

Do NOT use water jet

**5.2 Special hazards arising from the substance or mixture**

Carbon oxides

**5.3 Advice for firefighters [www.lithium-chemical.com](http://www.lithium-chemical.com)**

Wear self-contained breathing apparatus for firefighting if necessary

**5.4 Further information**

None

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**6.1 Personal precautions, protective equipment and emergency procedures**

Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert

For personal protection see section 8

**6.2 Environmental precautions**

Prevent further spillage or leakage if it is safe to do so, Do not let the chemical enter drains, Discharge into the environment must be avoided

**6.3 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). Keep in suitable, closed containers for disposal

**6.4 Reference to other sections**

For disposal see section 13



## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

#### Advice on safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist

Keep away from sources of ignition-No smoking. Take measure to prevent the buildup of electrostatic charge

For precautions see section 2

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

#### Storage conditions

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

#### Storage class

Storage class (TRGS 510): Flammable liquids

### 7.3 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

### 8.1 Control parameters

#### Ingredients with workplace control parameters

No data available

### 8.2 Exposure controls

#### Personal protective equipment

##### Eye/face protection

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

##### Skin protection

Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Use an apron and over-boots of chemically impervious materials such as neoprene or nitrile rubber

##### 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

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 should be followed. Check with respiratory protective equipment suppliers

**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****9.1 Information on basic physical and chemical properties**

Appearance	Form: liquid
	Colour: colorless
Odour	No data available
Odour Threshold	No data available
pH	No data available
Melting point/freezing point	ca.-77,0 °C at 1.013 hPa
Initial boiling point and boiling range	168 °C - lit
Flash point	52°C (126o F) –Closed cup
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	Upper explosion limit: 5,2 %(V) Lower explosion limit: 1,1 %(V)
Vapour pressure	Ca.2,0 hPa at 20 °C
Density	0,893 g/cm <sup>3</sup> at 25 °C - lit
Relative density	No data available
Water solubility	Ca.0,089 g/l at 25 °C
Partition coefficient: n- octanol/water	log Pow: 3,35 at 25 °C
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	Viscosity, kinematic: ca.0,93 mm <sup>2</sup> /s at 20 °C
Explosive properties	No data available
Oxidizing properties	No data available

**9.2 Other safety information**

Surface tension	Ca.31,66 mN/m at 20 °C
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**SECTION 10: STABILITY AND REACTIVITY****10.1 Reactivity**

No additional information available

**10.2 Chemical stability**

Stable under recommended storage conditions

**10.3 Possibility of hazardous reactions**

No data available

**10.4 Conditions to avoid**



Heat, flames and sparks

#### 10.5 Incompatible materials

Strong oxidizing agents, Strong acids

#### 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions- Carbon oxides e

Other decomposition products- no data available

In the event of fire: see section 5

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

	LD50 Oral- Rat- 3,275 mg/kg
<b>Acute toxicity:</b>	LC50 Inhalation –Rat- 4 h – 16.891 mg/l
	LD50 Dermal- Rabbit- >4,400 mg/kg
<b>Skin corrosion/irritation:</b>	Skin- Rabbit
	Result: Skin irritation
<b>Serious eye damage/eye irritation:</b>	Eyes- Rabbit
	Result: Eye irritation

#### Respiratory or skin sensitization:

No data available

#### Germ cell mutagenicity:

No data available

#### Carcinogenicity

May cause cancer by inhalation

#### Reproductive toxicity

No data available

#### 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

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 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)

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher

**12.6 Other adverse effects**

Toxic to aquatic life

**SECTION 13: DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods**

**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself

**Remarks**

Dispose of as unused product

**SECTION 14: TRANSPORT INFORMATION**

**ADR/RID**

UN number: 2618

Packing group: III

Environmental hazards: No

Proper shipping name:

Transport hazard class(es): 3

VINYLTOLUENES, STABILIZED

**IMDG**

IMDG UN number: 2618

Packing group: III

Environmental hazards: No

Proper shipping name:

Transport hazard class(es): 3

VINYLTOLUENES, STABILIZED

**IATA**

UN number: 2618

Packing group: III

Environmental hazards: No

Proper shipping name:

Transport hazard class(es): 3

VINYLTOLUENES, STABILIZED

**SECTION 15: REGULATORY INFORMATION**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**



This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

**National legislation**

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances

FLAMMABLE LIQUIDS

**15.2 Other regulations**

For this product a chemical safety assessment was not carried out

**SECTION 16: OTHER INFORMATION**

**Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. China Lithium Product Technology Co., Ltd.( CLPC) and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See [www.lithium-chemical.com](http://www.lithium-chemical.com) for additional terms and conditions of sale.