

## SECTION 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION

Product Name: Toluene-D8 99.6%

Product Code: T14206

Supplier: Pfaltz & Bauer, Inc.  
172 E. Aurora Street  
Waterbury, CT 06708 USA

Phone: 203-574-0075

FAX: 203-574-3181

Emergency Phone: INFOTRAC, US: 1-800-535-5053  
INFOTRAC, INTERNATIONAL: +1-352-323-3500

## SECTION 2: HAZARDS IDENTIFICATION

Statement of Hazard: Aspiration hazard, Environmentally hazardous, Flammable liquid, Irritant, Narcotic effects, Respiratory irritant

Acute Health Hazard: Irritant to eyes, skin, mucous membranes and respiratory system. May be harmful by ingestion, skin absorption and inhalation.

Chronic Health Hazard: Target organ effect, Teratogen

HMIS Rating: H: 2      F: 3      P: 0

NFPA Rating: H: 2      F: 3      R: 0

To the best of our knowledge, the toxicological properties of this chemical have not been thoroughly investigated. Use appropriate procedures and precautions to prevent or minimize exposure.

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

GHS Classification in accordance with Regulation (EC) No 1272/2008:

Acute toxicity, dermal (Category 4), H312  
Acute toxicity, inhalation (Category 4), H332  
Acute toxicity, oral (Category 4), H302  
Aspiration hazard (Category 1), H304  
Flammable liquids (Category 2), H225  
Hazardous to the aquatic environment, acute toxicity (Category 2), H401  
Reproductive toxicity (Category 2), H361  
Serious eye damage/eye irritation (Category 2A), H319  
Skin corrosion/irritation (Category 2), H315  
Specific target organ toxicity, repeated exposure (Category 2), H373  
Specific target organ toxicity, single exposure; Narcotic effects (Category 3), H336  
Specific target organ toxicity, single exposure; Respiratory tract irritation (Category 3), H335

Pictogram:



Signal Word:

Danger

Hazard Statement(s):

H225 Highly flammable liquid and vapor.  
H302 Harmful if swallowed.  
H304 May be fatal if swallowed and enters airways.  
H312 Harmful in contact with skin.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H361 Suspected of damaging fertility or the unborn child.  
H373 Causes damage to organs through prolonged or repeated exposure.  
H401 Toxic to aquatic life.

Precautionary Statement(s):

P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.  
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.  
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.  
P281 Use personal protective equipment as required.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P302+P352 IF ON SKIN: wash with plenty of soap and water.  
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower.  
P304+P340 IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
P331 Do NOT induce vomiting.

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

<u>Chemical Name:</u>	Toluene-D8 99.6%
<u>CAS Number:</u>	2037-26-5
<u>MDL Number:</u>	MFCD00044638
<u>EINECS Number:</u>	218-009-5
<u>Beilstein Registry Number:</u>	1909300
<u>Molecular Formula:</u>	C <sub>6</sub> D <sub>5</sub> CD <sub>3</sub>
<u>Molecular Weight:</u>	100.19
<u>Content:</u>	As specified in product name.

#### SECTION 4: FIRST AID MEASURES

<u>Eye Contact:</u>	Flush eyes with large amounts of water for fifteen minutes. Separate eyelids with fingers. If irritation persists, seek medical attention.
<u>Skin Contact:</u>	Wash skin with soap and water. If irritation persists, seek medical attention.
<u>Ingestion:</u>	Do not induce vomiting. Seek medical attention.
<u>Inhalation:</u>	Move to a fresh air environment. Contact a physician if breathing becomes difficult.

#### SECTION 5: FIRE FIGHTING MEASURES

<u>Flash Point (°C):</u>	4 °C
<u>Explosion Limits:</u>	Lower, % by volume: Not Available Upper, % by volume: 7.
<u>Auto Ignition Temperature (°C):</u>	Not Available
<u>Extinguishing Media:</u>	Carbon dioxide, dry chemical powder, alcohol-resistant foam, or water spray
<u>Protective Equipment:</u>	Wear self-contained respirator and fully protective impervious suit.
<u>Specific Hazards:</u>	May emit hazardous fumes under fire conditions.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

<u>Personal Protection:</u>	Wear a self-contained breathing apparatus, rubber boots and gloves, and disposable coveralls. Dispose of coveralls after use. Remove from ignition sources if safe to do so. Follow emergency response plan and contact proper authorities if needed. Keep unprotected persons away.
<u>Environmental Protection:</u>	Keep spills out of sewers and bodies of water. Dike and contain the spill with inert material. Absorb on sand, vermiculite or diatomite. Transfer material to a container for disposal or recovery. Ventilate area and wash spill site after material pickup is complete.

## SECTION 7: HANDLING and STORAGE

<u>Handling and Storage:</u>	Avoid breathing dust, vapor, mist or gas. Avoid contact with skin and eyes. Avoid prolonged or repeated exposure. Use only in a chemical fume hood. Open and handle container with care. Keep ignition sources away. Store in a tightly closed container in a dry, well-ventilated place.
<u>Sensitivities:</u>	Not Available
<u>Storage Temperature (°C):</u>	15 to 30

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

<u>Engineering Controls:</u>	Use product in a well ventilated area or under a fume hood. Use proper lab equipment while handling this product. Keep away from incompatible materials for possible risk of hazardous reaction.
<u>Eye Protection:</u>	Wear appropriate protective eyeglass or chemical safety goggles. Make sure that there is an eyewash station in your vicinity.
<u>Skin Protection:</u>	Wear impervious gloves and protective clothing.
<u>Respiratory Protection:</u>	Use a NIOSH approved respirator when exposure limits are exceeded or if irritation or other symptoms are experienced.

<u>Exposure Limits:</u>	<u>Country</u>	<u>Source</u>	<u>Type</u>	<u>Value</u>
	USA	ACGIH	TWA	Not Available
	USA	OSHA	STEL	150 ppm
	USA	OSHA	PEL	Not Available

## SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

<u>Appearance:</u>	Colorless liquid
<u>Odor:</u>	Not Available
<u>Odor Threshold:</u>	Not Available

<u>Flash Point (°C):</u>	4 °C
<u>Auto Ignition Temperature (°C):</u>	Not Available
<u>UEL % by Volume:</u>	7.
<u>LEL % by Volume:</u>	Not Available
<u>Melting Point (°C):</u>	-84 °C
<u>Boiling Point (°C):</u>	110 °C
<u>Evaporation Rate:</u>	Not Available
<u>pH Value:</u>	Not Available
<u>Density (g/cm<sup>3</sup>):</u>	0.943
<u>Refractive Index (n<sup>20</sup><sub>D</sub>):</u>	1.494
<u>Viscosity:</u>	Not Available
<u>Solubility in Water:</u>	Not Available
<u>Solubility in Other:</u>	Not Available
<u>Vapor Pressure (mmHg):</u>	Not Available
<u>Vapor Density (Air=1):</u>	Not Available

## SECTION 10: STABILITY and REACTIVITY

<u>Stability:</u>	Stable under normal temperatures and pressures.
<u>Incompatibility:</u>	Not Available
<u>Reactivity:</u>	Product may react with incompatible materials to release other hazardous substances.
<u>Conditions to Avoid:</u>	Heat, flame, sparks, other ignition sources.
<u>Hazardous Decomposition Products:</u>	Carbon oxides

## SECTION 11: TOXICOLOGICAL INFORMATION

RTECS Reference: Not Available

Target Organs: Not Available

Toxicity Data:

Oral Rat LD <sub>50</sub> mg/kg:	5580.00
Dermal Rabbit LD <sub>50</sub> mg/kg:	12196.00
Inhalation Rat LC <sub>50</sub> , mg/m <sup>3</sup> :	12500.00

Carcinogenicity:

National Toxicology Program (NTP) listed:  
Not Available

International Agency for Research on Cancer (IARC) listed: Not Available

Potential Symptoms: Not Available

## SECTION 12: ECOLOGICAL INFORMATION

Toxicity:

Rainbow trout LC <sub>50</sub> :	7.63 mg/l - 96 hrs.
Bluegill LC <sub>50</sub> :	74.00 mg/l - 96 hrs.
Water flea LC <sub>50</sub> :	8.00 mg/l - 8.00 hrs.
Green Algae LC <sub>50</sub> :	10.00 mg/l - 24 hrs.

## SECTION 13: DISPOSAL CONSIDERATIONS

Contact a licensed professional waste disposal service. Dispose in a manner consistent with federal, state and local environmental regulations.

## SECTION 14: TRANSPORT INFORMATION

DOT Shipping Name: Toluene

DOT UN Number: UN1294

DOT Hazard Class: Class 3

DOT Packing Group: PGII

Reportable Quantity: 1000 Ibs

IMDG Shipping Name: Toluene

IMDG UN Number: UN1294

IMDG Hazard Class: Class 3

<u>IMDG Packing Group:</u>	PGII
<u>Marine Pollutant:</u>	No
<u>IATA Shipping Name:</u>	Toluene
<u>IATA UN Number:</u>	UN1294
<u>IATA Hazard Class:</u>	Class 3
<u>IATA Packing Group:</u>	PGII

## **SECTION 15: REGULATORY INFORMATION**

### United States

Toxic Substance Control Act (TSCA) listed: No  
Superfund Amendments and Reauthorization Act (SARA 302) listed: No  
Superfund Amendments and Reauthorization Act (SARA 311/312) listed: No  
Superfund Amendments and Reauthorization Act (SARA 313) listed: No

### European Union

European Inventory of Existing Chemical Substances (EINECS): 218-009-5  
GHS Classification in accordance with Regulation (EC) No 1272/2008: Yes

### Canada

Canadian Domestic Substances List (DSL) listed: No  
Canadian Non-Domestic Substances List (NDSL) listed: No

## **SECTION 16: OTHER INFORMATION**

Date Prepared: 9/26/2022

The information above is presented in good faith. It is believed to be accurate and represents the best information currently available to us. However, we make no warranty with respect to such information and we assume no liability resulting from its use. The user should consider this information as a supplement to other information that may be available and make independent judgement to ensure proper use to protect the health and safety of employees and the environment. Pfaltz and Bauer shall not be held liable for any damage resulting from handling or from contact with the above product.