

### SECTION 1 Identification

#### 1.1. Product identifier

Product form : Substance  
 Trade name : Toluene  
 Chemical name : Toluene  
 CAS-No. : 108-88-3  
 Product code : P409 / P409C / P409Q  
 Formula : C7H8

#### 1.2. Other means of identification

Synonyms : Benzene, methyl- / Methylbenzene / Phenylmethane / TOLUENE  
 Other means of identification : Toluene  
 EC Index No. (Report) : 601-021-00-3  
 EC-No. : 203-625-9

#### 1.3. Recommended use of the chemical and restrictions on use

Recommended use : Manufacture of paints, varnishes and similar coatings, printing ink and mastics, Production of foam-based objects, Use in Agrochemicals  
 Restrictions on use : No additional information available

#### 1.4. Supplier's details

Braskem America, Inc.  
 1735 Market Street  
 Philadelphia, PA 19103-7583  
 Tel: (800) 396 - 5251  
 productsafety@braskem.com

#### 1.5. Emergency phone number

Emergency number : CHEMTREC: +1 800 424 9300 (NORTH AMERICA)  
 CHEMTREC International: +1 1-703-527-3887

### SECTION 2 Hazard Identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

Flammable liquid, Category 2  
 Skin corrosion/irritation, Category 2  
 Reproductive toxicity, Category 2  
 Specific target organ toxicity – Single exposure, Category 3, Narcosis  
 Specific target organ toxicity — Repeated exposure, Category 2

Highly flammable liquid and vapor.  
 Causes skin irritation.  
 Suspected of damaging the unborn child.  
 May cause drowsiness or dizziness.  
 May cause damage to organs (Colour-vision impairment, Auditory disturbances, central nervous system) through prolonged or repeated exposure (Inhalation).  
 May be fatal if swallowed and enters airways.

Aspiration hazard, Category 1

#### 2.2. Label elements

##### GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Danger

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Hazard statements (GHS US)	: Highly flammable liquid and vapor May be fatal if swallowed and enters airways Causes skin irritation May cause drowsiness or dizziness Suspected of damaging the unborn child. May cause damage to organs (Colour-vision impairment, Auditory disturbances, central nervous system) through prolonged or repeated exposure (Inhalation)
Precautionary statements (GHS US)	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground/Bond container and receiving equipment. Use explosion-proof electrical, lighting, ventilating equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist, spray, vapors. Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves. If swallowed: Immediately call a POISON CENTER. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If exposed or concerned: Get medical advice/attention. Do NOT induce vomiting. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. In case of fire: Use dry extinguishing powder, carbon dioxide (CO <sub>2</sub> ), sand to extinguish. Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container to comply with applicable local, national and international regulation..

### 2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

### 2.4. Hazards not otherwise classified

Other hazards which do not result in classification : Handling this product may result in electrostatic accumulation. Use proper grounding procedures. Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

### 2.5. Unknown acute toxicity

No additional information available

## SECTION 3 Composition/information on ingredients

### 3.1. Substances

Substance type : Mono-constituent

Name	Product identifier	%	GHS US classification
Toluene (Main constituent)	CAS-No.: 108-88-3	> 99	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304

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### 3.2. Mixtures

Not applicable

## SECTION 4 First aid measures

### 4.1. Description of necessary first-aid measures

First-aid measures general	: Consult a doctor/medical service if you feel unwell.
First-aid measures after inhalation	: Move the affected person away from the contaminated area and into the fresh air. If not breathing, give artificial respiration. Give oxygen or artificial respiration as needed. Immediately call a poison center or doctor/physician.
First-aid measures after skin contact	: Remove contaminated clothing and shoes. Rinse immediately with plenty of water (for at least 15 minutes). Get medical advice/attention. Wash clothing before re-using.
First-aid measures after eye contact	: Rinse immediately with plenty of water for 15 minutes. Get medical advice/attention.
First-aid measures after ingestion	: Do not induce vomiting. Never give anything by mouth to an unconscious person. If swallowed, rinse mouth with water (only if the person is conscious). Seek immediate medical advice. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.

### 4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects	: Suspected of damaging the unborn child. May cause damage to organs (Auditory disturbances, Colour-vision impairment, central nervous system) (Inhalation).
Symptoms/effects after inhalation	: May cause drowsiness or dizziness. May cause irritation to the respiratory tract. Inhalation may cause irritation, cough, shortness of breath. Depression of the central nervous system, headaches, dizziness, drowsiness, loss of coordination.
Symptoms/effects after skin contact	: Causes skin irritation. Repeated or prolonged skin contact may cause dermatitis and defatting.
Symptoms/effects after eye contact	: Causes eye irritation. Redness of the eye tissue.
Symptoms/effects after ingestion	: May be fatal if swallowed and enters airways. May result in aspiration into the lungs, causing chemical pneumonia. Depression of the central nervous system, headaches, dizziness, drowsiness, loss of coordination.
Chronic symptoms	: Visual disturbances. Colour-vision impairment. Loss of coordination. Auditory disturbances.

### 4.3. Indication of immediate medical attention and special treatment needed, if necessary

Note to physician :	: Treat symptomatically.
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## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: carbon dioxide (CO <sub>2</sub> ), dry chemical powder, foam. Water fog.
Unsuitable extinguishing media	: Do not use a solid water stream as it may scatter and spread fire.

### 5.2. Specific hazards arising from the chemical

Fire hazard	: Highly flammable liquid and vapor. Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases. Vapors may cause fire/explosion if source of ignition is present. Heavier than air, vapors may travel long distances along ground, ignite and flash back to source. Material can accumulate some static charge during transfer. Agitation can cause build up of electrostatic charge.
Explosion hazard	: Prolonged exposure to fire may cause containers to rupture/explode.
Hazardous decomposition products in case of fire	: Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.

### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Cool closed containers exposed to fire with water spray. Exercise caution when fighting any chemical fire.
Protection during firefighting	: Extra personal protection: complete protective clothing including self-contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".

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### SECTION 6 Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Keep away from sources of ignition - No smoking. Keep away from open flames, hot surfaces and sources of ignition. Handling this product may result in electrostatic accumulation. Use proper grounding procedures. Avoid contact with spilled material. Spilled material may present a slipping hazard. Evacuate unnecessary personnel. Notify authorities if product enters sewers or public waters.

#### For non-emergency personnel

Protective equipment : Wear suitable protective clothing, gloves and eye/face protection. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so. Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes. Do not breathe mist, spray, vapors.

#### For emergency responders

Protective equipment : Wear suitable protective clothing, gloves and eye/face protection. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Eliminate every possible source of ignition. Stop leaks if it can be done without personal risk. Ventilate area. Approach from upwind. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes. Avoid breathing dust, mist, spray.

Environmental precautions : Prevent entry to sewers and public waters. Do not allow uncontrolled discharge of product into the environment. Notify authorities if product enters sewers or public waters.

#### 6.2. Methods and materials for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leaks if it can be done without personal risk. Collect spillage.

Methods for cleaning up : Absorb remaining liquid with sand or inert absorbent and remove to safe place. Keep the recovered product for subsequent recycling. Place in an appropriate container and dispose of the contaminated material at a licensed site. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Handling this product may result in electrostatic accumulation. Use proper grounding procedures. Notify authorities if product enters sewers or public waters.

Other information : Dispose in a safe manner in accordance with local/national regulations.

For further information refer to section 8: "Exposure controls/personal protection". For disposal of residues refer to section 13 : "Disposal considerations".

### SECTION 7 Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Electrostatic charges may be generated during handling. Ground/bond container and receiving equipment. Avoid ignition sources. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe mist, vapors, spray.

Hygiene measures : Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke during use.

Additional hazards when processed : Container remains hazardous when empty. Continue to observe all precautions. Handling this product may result in electrostatic accumulation. Use proper grounding procedures.

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

Technical measures	: Provide adequate ventilation. Use only non-sparking tools. Use only explosion-proof equipment. Ground/bond container and receiving equipment. Keep away from sources of ignition - No smoking.
Storage conditions	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Store in dry, cool, well-ventilated area. Keep in original containers closed. Store only in a limited quantity. Store locked up.
Incompatible materials	: Nitric acid. Sulfuric acid. Strong oxidizing agents. Tetranitromethane. Silver perchlorate. Uranium hexafluoride.
Specific end uses	: See Heading 1.

### SECTION 8 Exposure controls/personal protection

#### 8.1. Control parameters

Toluene (108-88-3)	
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	Toluene
ACGIH® TLV® TWA	20 ppm
Remark (ACGIH®)	TLV® Basis: CNS, Hearing & Visual impair; Female repro system eff; Pregnancy loss. Notations: OTO (Ototoxicant); A4 (Not classifiable as a Human Carcinogen); BEI
ACGIH® chemical category	Not Classifiable as a Human Carcinogen
Regulatory reference	ACGIH 2025
<b>USA - ACGIH - Biological Exposure Indices</b>	
Local name	Toluene
BEI	0.3 mg/g Kreatinin Parameter: o-Cresol - Medium: urine - Sampling time: End of shift - Notations: B 0.02 mg/l Parameter: Toluene - Medium: blood - Sampling time: Prior to last shift of workweek 0.03 mg/l Parameter: Toluene - Medium: urine - Sampling time: End of shift
Regulatory reference	ACGIH 2025
<b>USA - OSHA - Occupational Exposure Limits</b>	
Local name	Toluene
OSHA PEL TWA	200 ppm
OSHA PEL C	300 ppm
Acceptable maximum peak above the acceptable ceiling concentration for an 8-hr shift	500 ppm 10 mins.
Remark (OSHA)	(2) See Table Z-2.
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-2
<b>USA - Cal/OSHA - Occupational Exposure Limits</b>	
Local name	Toluene; toluol
Cal/OSHA PEL (OEL TWA)	37 mg/m <sup>3</sup> 10 ppm
Cal/OSHA STEL	560 mg/m <sup>3</sup> 150 ppm

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Toluene (108-88-3)	
Cal/OSHA C	500 ppm
Remark (Cal/OSHA)	S - Skin notation and Protecting Clothing
Regulatory reference	California Division of Occupational Safety and Health (Cal/OSHA) - Permissible Exposure Limit for Chemical Contaminants (Table AC-1)
USA - IDLH - Occupational Exposure Limits	
IDLH	500 ppm
USA - NIOSH - Occupational Exposure Limits	
Local name	Toluene
NIOSH REL TWA	375 mg/m <sup>3</sup>
	100 ppm
NIOSH REL 10h TWA	100 ppm
NIOSH REL STEL	560 mg/m <sup>3</sup>
	150 ppm
Regulatory reference (US-NIOSH)	OSHA Annotated Table Z-2 (NIOSH Pocket Guide to Chemical Hazards (NPG))

### 8.2. Appropriate engineering controls

Appropriate engineering controls	: Provide local exhaust or general room ventilation to minimize vapor concentrations. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Handling this product may result in electrostatic accumulation. Use proper grounding procedures. Use spark-/explosionproof appliances and lighting system.
Environmental exposure controls	: Avoid release to the environment.

### 8.3. Individual protection measures, such as personal protective equipment

<b>Hand protection:</b>
VITON gloves. protective gloves: neoprene gloves, PVA. Wear suitable gloves tested to ISO 374-1
<b>Eye protection:</b>
Chemical goggles or safety glasses. Contact lenses should not be worn. Use eye protection according to ISO 16321-1.
<b>Skin and body protection:</b>
Long sleeved protective clothing. Antistatic clothing. Wear protective clothing meeting ISO 13688:2013 standards
<b>Respiratory protection:</b>
An approved organic vapor respirator/supplied air or self-contained breathing apparatus must be used when vapor concentration exceeds applicable exposure limits. Use respiratory protective devices as per ISO 16975-1:2016 recommendations

## SECTION 9 Physical and chemical properties

### 9.1. Basic physical and chemical properties

Physical state	: Liquid
Appearance	: Clear, colorless liquid.
Color	: Clear Colourless
Odor	: characteristic
Odor threshold	: No data available
pH	: No data available

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Melting point	: -95 °C
Freezing point	: No data available
Boiling point	: 110.6 °C
Flash point	: 4.4 °C (closed cup)
Relative evaporation rate (butyl acetate=1)	: 2.24
Flammability (solid, gas)	: Highly flammable liquid and vapor
Vapor pressure	: 3.089 kPa at 21.1°C and 4.130 kPa at 26.6°C
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Density	: 0.866871 g/cm <sup>3</sup> (at 20 °C)
Molecular mass	: 92.13 g/mol
Solubility	: Water: 573- 587 mg/l (at 25 °C)
Partition coefficient n-octanol/water (Log Pow)	: 2.73 (at 20 °C)
Auto-ignition temperature	: 480 °C
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 0.56 mPa·s (at 25°C)
Explosion limits	: Lower explosion limit: 1.1 vol % Upper explosion limit: 7.1 vol %
Particle characteristics	: No data available

### 9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

## SECTION 10 Stability and reactivity

### 10.1. Reactivity

Highly flammable liquid and vapor. Heavier than air, vapors may travel long distances along ground, ignite and flash back to source. Forms explosive complexes with silver perchlorate. Forms highly explosive mixture with tetranitromethane.

### 10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use.

### 10.3. Possibility of hazardous reactions

Static-accumulating.

### 10.4. Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition. Avoid static electricity discharges. Incompatible materials.

### 10.5. Incompatible materials

Nitric acid. Sulfuric acid. Strong oxidizing agents. Tetranitromethane. silver perchlorate. uranium hexafluoride.

### 10.6. Hazardous decomposition products

No hazardous decomposition products known at room temperature. Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.

## SECTION 11 Toxicological information

Likely routes of exposure : Inhalation. Ingestion. Skin and eye contact.

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)

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<b>Toluene (108-88-3)</b>	
LD50 oral rat	5000 mg/kg (Source: NLM_HSDB)
LD50 dermal rabbit	12000 mg/kg (Source: JAPAN_GHS)
LC50 Inhalation - Rat	12.5 mg/l/4h
ATE US (oral)	5000 mg/kg body weight
ATE US (dermal)	12000 mg/kg body weight
ATE US (vapors)	12.5 mg/l/4h
ATE US (dust, mist)	12.5 mg/l/4h

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)

Respiratory or skin sensitization : Not classified (Based on available data, the classification criteria are not met)

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

<b>Toluene (108-88-3)</b>	
IARC group	3 - Not classifiable

Reproductive toxicity : Suspected of damaging the unborn child.

STOT-single exposure : May cause drowsiness or dizziness.

STOT-repeated exposure : May cause damage to organs (Colour-vision impairment, Auditory disturbances, central nervous system) through prolonged or repeated exposure (Inhalation).

<b>Toluene (108-88-3)</b>	
LOAEL (oral,rat,90 days)	1250 mg/kg body weight Animal: rat, Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEL (oral,rat,90 days)	625 mg/kg body weight Animal: rat, Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEC (inhalation,rat,vapor,90 days)	2.355 mg/l air Animal: rat, Guideline: EU Method B.29 (Sub-Chronic Inhalation Toxicity:90-Day Study)

Aspiration hazard : May be fatal if swallowed and enters airways.

<b>Toluene (108-88-3)</b>	
Viscosity, kinematic	0.643 mm <sup>2</sup> /s

Symptoms/effects : Suspected of damaging the unborn child. May cause damage to organs (Auditory disturbances, Colour-vision impairment, central nervous system) (Inhalation).

Symptoms/effects after inhalation : May cause drowsiness or dizziness. May cause irritation to the respiratory tract. Inhalation may cause irritation, cough, shortness of breath. Depression of the central nervous system, headaches, dizziness, drowsiness, loss of coordination.

Symptoms/effects after skin contact : Causes skin irritation. Repeated or prolonged skin contact may cause dermatitis and defatting.

Symptoms/effects after eye contact : Causes eye irritation. Redness of the eye tissue.

Symptoms/effects after ingestion : May be fatal if swallowed and enters airways. May result in aspiration into the lungs, causing chemical pneumonia. Depression of the central nervous system, headaches, dizziness, drowsiness, loss of coordination.

Chronic symptoms : Visual disturbances. Colour-vision impairment. Loss of coordination. Auditory disturbances.

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### SECTION 12 Ecological information

#### 12.1. Ecotoxicity

Hazardous to the aquatic environment, short-term (acute) : Not a OSHA HazCom 2024 hazard endpoint

Hazardous to the aquatic environment, long-term (chronic) : Not a OSHA HazCom 2024 hazard endpoint

#### 12.2. Persistence and degradability

##### Toluene (108-88-3)

Persistence and degradability	Readily biodegradable. not persistent.
BOD (% of ThOD)	69 % ThOD (5 days in non-adapted effluent)

#### 12.3. Bioaccumulative potential

##### Toluene (108-88-3)

Partition coefficient n-octanol/water (Log Pow)	2.73 (at 20 °C (at pH 7)
Bioaccumulative potential	not bioaccumulable.

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Ozone : Not a OSHA HazCom 2024 hazard endpoint  
Fluorinated greenhouse gases : No

### SECTION 13 Disposal considerations

Regional legislation (waste) : U.S. - RCRA (Resource Conservation Recovery Act) - U Series Wastes - Acutely Toxic Wastes Other Hazardous Characteristics. U.S. - RCRA (Resource Conservation Recovery Act) - Basis for Listing - Appendix VII. U.S. - RCRA (Resource Conservation Recovery Act) - TSD Facilities Ground Water Monitoring. U.S. - RCRA (Resource Conservation Recovery Act) - Hazardous Constituents - Appendix VIII to 40 CFR 261. U.S. - RCRA (Resource Conservation Recovery Act) - Phase 4 LDR Rule - Universal Treatment Standards. U.S. - RCRA (Resource Conservation Recovery Act) - List for Hazardous Constituents. U.S. - RCRA (Resource Conservation Recovery Act) - Constituents for Detection Monitoring.

Product/Packaging disposal recommendations : Dispose of this material and its container at hazardous or special waste collection point. Consult an expert on waste disposal or treatment.

Additional information : Container remains hazardous when empty. Continue to observe all precautions.

Ecological waste information : Avoid release to the environment.

### SECTION 14 Transport information





In accordance with DOT / TDG / IMDG / IATA

DOT	TDG	IMDG	IATA
<b>14.1. UN number</b>			
UN1294	UN1294	1294	1294
<b>14.2. Proper Shipping Name</b>			
Toluene	TOLUENE	TOLUENE	Toluene
<b>14.3. Transport hazard class(es)</b>			
3	3	3	3

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DOT	TDG	IMDG	IATA
			
<b>14.4. Packing group</b>			
II	II	II	II
<b>14.5. Environmental hazards</b>			
Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No
No supplementary information available			

### 14.6. Transport in bulk

Product Name : TOLUENE  
Pollution category : Y  
Ship type : 3

### 14.7. Special precautions for user

#### DOT

UN-No. (DOT) : UN1294  
DOT Special Provisions (49 CFR 172.102) : IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.  
T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3)  
TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling =  $97 / 1 + a (tr - tf)$  Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.

DOT Packaging Exceptions (49 CFR 173.xxx) : 150  
DOT Packaging Non Bulk (49 CFR 173.xxx) : 202  
DOT Packaging Bulk (49 CFR 173.xxx) : 242  
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 5 L  
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 60 L  
DOT Vessel Stowage Location : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.

#### TDG

UN-No. (TDG) : UN1294  
Explosive Limit and Limited Quantity Index : 1 L  
Excepted quantities (TDG) : E2  
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index : 5 L  
Emergency Response Guide (ERG) Number : 130

#### IMDG

Limited quantities (IMDG) : 1 L  
Excepted quantities (IMDG) : E2  
Packing instructions (IMDG) : P001

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IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1
EmS-No. (Fire)	: F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS
EmS-No. (Spillage)	: S-D - SPILLAGE SCHEDULE Delta - FLAMMABLE LIQUIDS
Stowage category (IMDG)	: B
Flash point (IMDG)	: 7°C c.c.
Properties and observations (IMDG)	: Colorless liquid with a benzene-like odor. Flashpoint: 7°C c.c. Explosive limits: 1.27% to 7%. Immiscible with water.

### IATA

PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y341
PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 353
PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 364
CAO max net quantity (IATA)	: 60L
ERG code (IATA)	: 3L

## SECTION 15 Regulatory information

### 15.1. Federal regulations

<b>Toluene (108-88-3)</b>	
Subject to reporting requirements of United States SARA Section 313 Listed on EPA Hazardous Air Pollutant (HAPS)	
CERCLA RQ	1000 lb

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
Toluene	108-88-3	Present	Active	

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Toluene	CAS-No. 108-88-3	100%
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### 15.2. International regulations

No additional information available

### 15.3. State regulations


<b>Toluene (108-88-3)</b>	
U.S. - California - Proposition 65 - Carcinogens List	No
U.S. - California - Proposition 65 - Developmental Toxicity	Yes
U.S. - California - Proposition 65 - Reproductive Toxicity - Female	No
U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No
Maximum allowable dose level (MADL)	7000 µg/day level represents absorbed dose

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Toluene (108-88-3)	
State or local regulations	U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Minnesota - Hazardous Substance List U.S. - Massachusetts - Right To Know List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List U.S. - Maine - Chemicals of Concern

 **WARNING:** This product can expose you to Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### SECTION 16 Other information

according to US HazCom 2024

Revision date : 27 November 2025  
Issue date : 15 March 2017  
Data sources : MSDS.

Safety Data Sheet (SDS), USA - Braskem

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. It warns that the handling of any chemical substance requires the previous knowledge of its hazards for the user. It is up to the user of the product company providing this SDS to and promote the training of its employees about possible risks come upon of the product. The information contained herein is not absolute, but only general information on the use of the chemical and indication of safety and security measures.