

### SECTION 1: Identification

#### 1.1. Identification

Product form	: Substance
Trade name	: Toluene
Chemical name	: Toluene
CAS-No.	: 108-88-3
Product code	: P409 / P409C / P409Q
Formula (Override)	: C <sub>7</sub> H <sub>8</sub>
Synonyms	: Benzene, methyl- / Methylbenzene / Phenylmethane
Other means of identification	: Toluene

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture	: 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

#### 1.3. Supplier

Braskem America, Inc.  
1735 Market Street  
Philadelphia, PA 19103-7583  
Tel: (800) 396 - 5252

#### 1.4. Emergency telephone number

Emergency number	: CHEMTREC International: +1 703 527 3887 CHEMTREC: +1 800 424 9300 (NORTH AMERICA)
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### SECTION 2: Hazard(s) 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

Aspiration hazard, Category 1

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.

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

##### GHS US labeling

Hazard pictograms (GHS US)



Signal word (GHS US)

: Danger

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.

Precautionary statements (GHS US)

May cause damage to organs (Colour-vision impairment, Auditory disturbances, central nervous system) through prolonged or repeated exposure (Inhalation).
: 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 (CO2), 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. Other hazards which do not result in classification

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.

2.4. Unknown acute toxicity (GHS US)

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

3.2. Mixtures

Not applicable

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : Consult a doctor/medical service if you feel unwell.

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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. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. 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.

### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects	: Symptoms may include dizziness, headache, nausea and loss of coordination. Suspected of damaging the unborn child. May cause damage to organs (Colour-vision impairment, Auditory disturbances, central nervous system) (Inhalation).
Symptoms/effects after inhalation	: 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. Color-vision impairment. Loss of coordination. Auditory disturbances.

### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

## 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.

##### 6.1.1. 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.

##### 6.1.2. 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.

#### 6.2. 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.

#### 6.3. Methods and material 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.

#### 6.4. Reference to other sections

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

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.

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.

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

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Toluene (108-88-3)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Toluene
ACGIH OEL TWA	20 ppm
Remark (ACGIH)	Visual impair; female repro; pregnancy loss; A4; BEI
ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA - ACGIH - Biological Exposure Indices	
BEI	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 0.3 mg/g Kreatinin Parameter: o-Cresol with hydrolysis - Medium: urine - Sampling time: end of shift (background)
USA - OSHA - Occupational Exposure Limits	
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
USA - IDLH - Occupational Exposure Limits	
IDLH	500 ppm
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL TWA	375 mg/m <sup>3</sup>
	100 ppm
NIOSH REL STEL	560 mg/m <sup>3</sup>
	150 ppm

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### 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/Personal protective equipment

<b>Hand protection:</b>
VITON gloves. protective gloves: neoprene gloves, PVA
<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
<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

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Clear, colorless liquid.
Color	: Clear Colourless
Odor	: aromatic
Odor threshold	: 0.27 ppm (Stalker) 1 mg/m <sup>3</sup> (Stalker)
pH	: No data available
Melting point	: -95 to -94,5 °C
Freezing point	: No data available
Boiling point	: 110.6 °C (at 1013 hPa)
Flash point	: 4.4 °C (closed cup)
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: 22 mm Hg @ 20°C
Relative vapor density at 20°C	: 3.1 Source: HSDB
Relative density	: No data available
Density	: 0,866 g/cm <sup>3</sup> @ 20°C
Molecular mass	: 92.13 g/mol
Solubility	: Water: 515 mg/l (at 20 °C) Acetone: 100 (mg/mL) @ 18°C
Partition coefficient n-octanol/water (Log Pow)	: 2,11 - 2,8
Auto-ignition temperature	: 480 °C
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: 1,2 – 7,1%
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

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

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)

Toluene (108-88-3)	
LD50 oral rat	>5000 mg/kg (Source: JAPAN_GHS)
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)

Toluene (108-88-3)	
IARC group	3 - Not classifiable

Reproductive toxicity

: Suspected of damaging the unborn child.

STOT-single exposure

: May cause drowsiness or dizziness.

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STOT-repeated exposure

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

Toluene (108-88-3)	
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.

Likely routes of exposure

: Inhalation. Ingestion. Skin and eye contact.

Symptoms/effects

: Symptoms may include dizziness, headache, nausea and loss of coordination. Suspected of damaging the unborn child. May cause damage to organs (Colour-vision impairment, Auditory disturbances, central nervous system) (Inhalation).

Symptoms/effects after inhalation

: 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. Color-vision impairment. Loss of coordination. Auditory disturbances.

SECTION 12: Ecological information

12.1. Toxicity

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

Toluene (108-88-3)	
LC50 - Fish [1]	15.22 – 19.05 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)
EC50 - Crustacea [1]	5.46 – 9.83 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
EC50 - Other aquatic organisms [1]	3.78 mg/l waterflea (2 days)
LC50 - Fish [2]	12.6 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA)
EC50 - Crustacea [2]	11.5 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LOEC (chronic)	2.76 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d'
NOEC (acute)	10 mg/l 72 hours- Algae
NOEC (chronic)	0.74 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d'
NOEC chronic fish	1.39 mg/l Test organisms (species): Oncorhynchus kisutch Duration: '40 d'

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)	2,11 - 2,8
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.





SECTION 13: Disposal considerations

13.1. Disposal methods

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.
Ecological waste information	: Avoid release to the environment.
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.

SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

DOT	TDG	IMDG	IATA
14.1. UN number			
1294	UN1294	1294	1294
14.2. Proper Shipping Name			
Toluene	TOLUENE	TOLUENE	Toluene
14.3. Transport hazard class(es)			
3	3	3	3
			
14.4. Packing group			
II	II	II	II
14.5. Environmental hazards			
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			

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### 14.6. 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
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

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

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

Subject to reporting requirements of United States SARA Section 313  
Listed on EPA Hazardous Air Pollutant (HAPS)

CERCLA RQ	1000 lb
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All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

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

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

Listed on the NCI (Vietnam - National Chemical Inventory)  
Listed on Thailand Existing Chemicals Inventory (DIW)

#### 15.3. US State regulations

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

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
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 : 12 May 2025  
Data sources : MSDS.

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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.