

## 1. Product and Company Identification

www.rxmarine.com

Product Name RXSOL-60-6605-744  
Product Type TOLUENE FOR HPLC / UV SPECTOSCOPY  
Revised date

### Company Details:

RX MARINE INTERNATIONAL  
105, A wing , BSEL , TECH PARK.  
VASHI ,NEW BOMBAY 400703 INDIA

Stock Point : Mumbai, Kandla, Chennai, Visakhapatnam, Kolkata, Fujairah, Muscat Barka

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Email [mail@rxmarine.com](mailto:mail@rxmarine.com)

## 2. Composition / Information on ingredients

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Substance / Preparation : Toluene

CAS No :108-88-3

Substance.

Contains no other components or impurities which will influence the classification of the product.

## 3. Hazards Identification

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### 3.1. Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45

Classification : F; R11

Repr. Cat. 3; R63 Xn; R65-48/20 R67 Xi; R38

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008

(CLP) Health hazards : Reproductive toxicity - Unborn

Child - Category 2 - Warning (CLP : Repr. 2) H361

Specific Target Organ Toxicity - Single exposure -

Respiratory tract irritation - Category 3 - Warning

(CLP : STOT SE 3) H335 Specific Target Organ Toxicity - Single exposure -

Narcotic effects - Category 3 - Warning (CLP : STOT SE 3) H336

Specific Target Organ Toxicity - Repeated exposure -

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Category 2 - Warning (CLP : STOT RE 2) H373

Aspiration hazard - Category 1 - Danger (CLP : Asp. Tox. 1) H304

Skin irritation - Category 2 - Warning (CLP : Skin Corr. 2) H315

Physical hazards : Flammable liquids - Category 2 - Danger (CLP : Flam. Liq. 2) H225

### 3.2. Label elements

Labelling EC 67/548 or EC 1999/45

Symbol(s) : F : Highly flammable

Xn : Harmful

R Phrase(s) : R11 : Highly flammable.

R38 : Irritating to skin.

R48/20 : Harmful : danger of serious damage to health by prolonged exposure through inhalation.

R63 : Possible risk of harm to the unborn child.

R65 : Harmful : may cause lung damage if swallowed.

R67 : Vapours may cause drowsiness and dizziness.

S Phrase(s) : S2 : Keep out of the reach of children.

S36/37 : Wear suitable protective clothing and gloves.

S46 : If swallowed seek medical advice immediately and show the container or label.

S62 : If swallowed, do not induce vomiting : seek medical advice immediately and show this container or label.

Labelling Regulation EC 1272/2008 (CLP)

Hazard pictograms

Signal words : Danger

Hazard statements : H225 : Highly flammable liquid and vapour.

H304 : May be fatal if swallowed and enters airways.

H315 : Causes skin irritation.

H335 : May cause respiratory irritation.

H336 : May cause drowsiness or dizziness.

H373 : May cause damage to organs through prolonged or repeated exposure.

H361d: Suspected of damaging the unborn child. Precautionary statements

☐ General : P102: Keep out of reach of children.

P103: Read label before use.

P101: If medical advice is needed, have product container or label at hand.

P201: Obtain special instructions before use.

☐ Prevention : P240: Ground/bond container and receiving equipment.

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P241: Use explosion-proof electrical, ventilating, lighting, , equipment.

P210: Keep away from heat, sparks, open flames or hot surfaces. ☒ No smoking.

P280: Wear protective gloves, protective clothing, eye protection, face protection.

P271: Use only outdoors or in a well-ventilated area.

P260: Do not breathe dust, fume, gas, mist, vapours, spray.

P233: Keep container tightly closed.

P264: Wash thoroughly after handling.

☒ Response : P301+P310: IF SWALLOWED : Immediately call a POISON CENTER or doctor.

P302+P352: IF ON SKIN : Wash with plenty of soap and water.

P308+P313: If exposed or concerned : get medical advice.

P332+P313: If skin irritation occurs : Get medical advice.

P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing.

P303+P361+P353: IF ON SKIN (or hair) : Remove immediately all contaminated clothing. Rinse skin with water/shower.

P363: Wash contaminated clothing before reuse.

P314: Get medical advice if you feel unwell.

P370+P378: In case of fire: Use for extinction.

☒ Storage : P403+P233: Store in well-ventilated place. Keep container tightly closed.

P403+P235: Store in well-ventilated place. Keep cool. P405: Store locked up.

☒ Disposal considerations : P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 3.3. Other hazards

Other hazards : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

## 4. First Aid Measures

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### 4.1. Description of first aid measures

Inhalation : Remove to fresh air and keep at rest in a position comfortable for breathing.

Call a POISON CENTER or doctor if you feel unwell.

Skin contact : Wash contaminated clothing before reuse.

If skin irritation occurs : Wash with plenty of soap and water.

Get medical advice. Specific treatment (see on this label). Remove/Take off immediately all contaminated clothing.

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Eye contact : Rinse immediately with plenty of water.

Obtain medical attention if pain, blinking or redness persist.

Ingestion : Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor.

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

Symptoms relating to use : Causes damage to organ. May be fatal if swallowed and enters airways.

Causes skin irritation. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of damaging the unborn child.

#### 4.3. Indication of any immediate medical attention and special treatment needed

General information : Never give anything by mouth to an unconscious person.

If exposed or concerned : get medical advice.

## 5. Fire-fighting Measures

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### 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

Surrounding fires : Use water spray or fog for cooling exposed containers.

### 5.2. Special hazards arising from the substance or mixture

Flammable class : Highly flammable liquid and vapour.

Hazardous combustion products : Under fire conditions, hazardous fumes will be present.

### 5.3. Advice for fire-fighters

Protection against fire : Do not enter fire area without proper protective equipment,  
including respiratory protection.

Special procedures : Exercise caution when fighting any chemical fire.

Avoid (reject) fire-fighting water to enter environment.

## 6. Accidental Release Measures

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

For emergency responders : Equip cleanup crew with proper protection. Ventilate area.

Avoid breathing dust, fume, gas, mist, vapours, spray.

Technical measures : Use special care to avoid static electric charges.

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Special precautions : Remove ignition sources. No naked lights. No smoking.

For non-emergency personnel : Evacuate unnecessary personnel.

#### 6.2. Environmental precautions

Environmental precautions : Prevent entry to sewers and public waters.

Notify authorities if product enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

Clean up methods : Soak up spills with inert solids,

such as clay or diatomaceous earth as soon as possible.

Collect spillage. Store away from other materials.

#### 6.4. Reference to other sections

See section 8. Exposure controls/personal protection

## 7. Handling and Storage

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#### 7.1. Precautions for safe handling

Handling : Handle empty containers with care because residual vapours are flammable.

Obtain special instructions before use. Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Technical protective measures : Provide good ventilation in process area to prevent formation of vapour.

Proper grounding procedures to avoid static electricity should be followed.

Use explosion-proof electrical, ventilating, lighting, , equipment.

Special precautions : No naked lights. No smoking. Avoid breathing dust, fume, gas, mist, vapours, spray.

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

Storage : Keep only in the original container in a cool, well ventilated place.

Keep in fireproof place. Ground/bond container and receiving equipment.

Keep container tightly closed.

Storage - away from : Strong bases. Strong acids. Sources of ignition. Direct sunlight. Heat sources.

#### 7.3. Specific end use(s)

Specific end use(s) : None.

## 8. Exposure controls and personal protection

[www.rxmarine.com](http://www.rxmarine.com)

### 8.1. Exposure controls

Personal protection : Avoid all unnecessary exposure.

☒ Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.

Wear respiratory protection.

☒ Hand protection : Wear protective gloves.

☒ Skin protection : Wear suitable protective clothing.

☒ Eye protection : Chemical goggles or safety glasses.

☒ Others : When using, do not eat, drink or smoke.

### 8.2. Control parameters

Occupational Exposure Limits : No data available.

ILV (EU) - 8 H - [ppm] : ( 50 Skin. )

ILV (EU) - 8 H - [mg/m<sup>3</sup>] : ( 192 Skin. )

ILV (EU) - 15 min - [ppm] : ( 100 Skin. )

ILV (EU) - 15 min - [mg/m<sup>3</sup>] : ( 384 Skin. )

OEL (UK)-LTEL [ppm] : 50

OEL (UK)-STEL [ppm] : 150

## 9. Physical and chemical properties

[www.rxmarine.com](http://www.rxmarine.com)

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

Physical state at 20 °C : Liquid.

Odour : Aromatic benzene-like

Odour threshold : No data available.

pH value : No data available.

Melting point [°C] : -95

Decomposition point [°C] : N/A

Critical temperature [°C] : N/A

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Auto-ignition temperature [°C] : 535

Flammability (solid, gas) : Flammable.

Highly flammable liquid and vapour.

Flash point [°C] : 4°C

Boiling point [°C] : 110 - 111 °C

Initial boiling point [°C] : 110 °C

Final boiling point [°C] : 111 °C

Evaporation rate : 2,24

Vapour pressure [20°C] : 22 @ 20C

Vapour pressure mm/Hg : 22 @ 20C

Vapour density : 3,14

Density [g/cm3] : 0,86

Relative density, gas (air=1) : 3.2

Relative density, liquid (water=1) : N/A

Solubility in water [% weight] : Insoluble.

Solubility in water : N/A

Log Pow octanol / water at 20°C : No data available.

Solubility : N/A

Viscosity at 40°C [mm2/s] : N/A

## 9.2. Other information

Explosive properties : N/A

Explosion limits - upper [%] : 7

Explosion limits - lower [%] : 1.2

Oxidising properties : No data available.

## 10. Stability and reactivity

[www.rxmarine.com](http://www.rxmarine.com)

### 10.1. Reactivity

Reactivity : Not established.

### 10.2. Chemical stability

Chemical stability : Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

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Hazardous reactions : Not established.

#### 10.4. Conditions to avoid

Conditions to avoid : Direct sunlight.

Extremely high or low temperatures. Open flame.

#### 10.5. Incompatible materials

Materials to avoid : Strong acids. Strong bases.

#### 10.6. Hazardous decomposition products

Hazardous decomposition products : Fumes.

Carbon monoxide. Carbon dioxide. May release flammable gases.

## 11. Toxicological information

[www.rxmarine.com](http://www.rxmarine.com)

### 11.1. Information on toxicological effects Acute toxicity

☒ Inhalation : May be fatal if swallowed and enters airways.

☒ Dermal : Based on available data, the classification criteria are not met.

☒ Ingestion : May be fatal if swallowed and enters airways. -

Rat oral LD50 [mg/kg] : 7000

Corrosion : Based on available data, the classification criteria are not met.

Irritation : Causes skin irritation. May cause respiratory irritation.

Sensitization : Based on available data, the classification criteria are not met.

Mutagenicity : Based on available data, the classification criteria are not met.

Carcinogenicity : Based on available data, the classification criteria are not met.

Toxic for reproduction : Suspected of damaging the unborn child.

STOT-single exposure : May cause drowsiness or dizziness.

STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.

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

## 12. Ecological information

[www.rxmarine.com](http://www.rxmarine.com)

### 12.1. Toxicity



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Toxicity information : Not established.

#### 12.2. Persistence - degradability

Persistence - degradability : Biodegradable.

#### 12.3. Bioaccumulative potential

Bioaccumulative potential : Not established.

#### 12.4. Mobility in soil

Mobility in soil : Not established.

Log Pow octanol / water at 20°C : 2.6

#### 12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment : The substance does not fulfil

the criteria to be identified as PBT substance or vPvB substance

according to Annex XIII of Regulation REACH.

#### 12.6. Other adverse effects

Environmental precautions : Avoid release to the environment.

## 13. Disposal considerations

[www.rxmarine.com](http://www.rxmarine.com)

#### 13.1. Waste treatment methods

General : Avoid release to the environment.

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

Dispose of this material and its container to hazardous or special waste

collection point, in accordance with local, regional, national and/or international regulation.

Special precautions : Handle empty containers with care because residual vapours

are flammable. Hazardous waste due to toxicity.

## 14. Transport information

[www.rxmarine.com](http://www.rxmarine.com)

#### 14.1. Land transport (ADR-RID)

Proper shipping name : TOLUENE

UN N° : 1294

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H.I. nr : 33

ADR - Class : 3

Labelling - Transport : 3 : Flammable liquid.

ADR - Classification code : F1

ADR - Group : II

ADR - Packing instructions : P001 R001

ADR - Limited Quantity : 1 L

ADR - Tunnel code : D/E : Bulk or tank

carriage: Passage forbidden through tunnels of category D and E.

Other carriage: Passage forbidden through tunnels of category E.

14.2. Sea transport (IMDG) [English only]

Proper shipping name : TOLUENE

UN N° : 1294

IMO-IMDG - Class or division : 3 : Flammable liquid.

IMO-IMDG - Packing group : II

IMO- IMDG - Packing instructions : P001

IMO-IMDG - Limited quantities : 1 L

IMO-IMDG - Marine pollution : No

EMS-Nr : F-E S-D

14.3. Air transport (ICAO-IATA) [English only]

Proper shipping name : TOLUENE

UN N° : 1294

IATA - Class or division : 3 : Flammable liquid.

IATA - Packing group : II

IATA - Passenger and Cargo Aircraft : ALLOWED -

Passenger and Cargo - Packing : 353

instruction - Passenger and Cargo - Maximum : 5 L

Quantity/Packing

IATA - Cargo only : ALLOWED -

Cargo only - Packing instruction : 364 -

Cargo only - Maximum Quantity/ : 60 L

Packing IATA - Limited Quantities : 1 L

ERG-Nr : 3L

## 15. Regulatory information

[www.rxmarine.com](http://www.rxmarine.com)

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

Safety, health and environmental : Ensure all national/local regulations are observed.

regulations/legislation specific for the substance or mixture

REACH Restrictions - Annex XVII : With the exception of those listed

below: Annex XVII The components of this product are not subject to restrictions.

REACH Authorisation - Annex XIV : The components of this product are not subject to authorization.

15.2. Chemical Safety Assessment

Chemical Safety Assessment : It has not been carried out.

## 16. Other information

[www.rxmarine.com](http://www.rxmarine.com)

Abbreviations and acronyms : PBT: persistent, bioaccumulative and toxic. vPvB: very persistent and very bioaccumulative

Sources of key data used : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL  
of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives

67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 Further information : None. In accordance with REACH

Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

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