Material Safety Data Sheet

TOLUENE SPECIALLY DRIED AR (RXSOL-60-6605-746)

1. Product and Company Identifaction

Product Name	RXSOL-60-6605-746
Product Type	TOLUENE SPECIALLY DRIED AR
Revised date	

Company Details:

RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
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2. Composition / informationon ingredients

Substance / Preparation: Toluene
CAS No :108-88-3
Substance.

Substance name	Contents	CAS No	Classification
Toluene:	100 %	108-88-3	F; R11 Repr. Cat. 3; R63Xn; R65-48/20R67 Xi; R38 ---------- Flam. Liq. 2 _ H225 Asp. Tox 1 _ H304 Repr. 2 _ H361d Skin Irrit. 2 _ H315 STOT SE 3 _ H335 STOT RE 2 _ H373 STOT SE 3 _ H336

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

3. Hazards Identification

3.1. Classification of the substance or mixture
Classification EC 67/548
or EC 1999/45
Classification: F; R11
Repr. Cat. 3; R63Xn; R65-48/20R67Xi; 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) H361Specific Target Organ
Toxicity-Single exposure-Respiratory tractirritation-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-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 flammableXn : Harmful 2 of 10
R Phrase(s) : R11 : Highly fl ammable.

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.
S62 : If swallowed, do not induce vomiting : seek medical advice immediately and show this container or label. Contains : Toluene
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 caus e 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 chi ldren.
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.
P241: Use explosionproof elec trical, 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 wellventilated a rea.
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 ordoctor.
P302+P352: IF ON SKIN : Wash withplenty 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 positioncomfortable for breathing.
P303+P361+P353: IF ON SKIN (or hair) : Remove immediately all contaminatedclothing. 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 hazardousor special wastecollection point, in accordance with local, regional, national and/orinternationalregulation.
3.3. Other hazards
Other hazards: The substance does not fulfil the criteria to be identified as PBT substance or vPvBsubstance according to Annex XIII of Regulation REACH.

4. First Aid Measures

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.
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

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

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.
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

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 onlyoutdoors or in a well-ventilated area.
Technical protective measures: Provide good ventilation in process area to preventformation of vapour.
Proper grounding procedures to avoid static electricity should befollowed.
Useexplosion-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 infireproofplace. Ground/bond container and receiving equipment.
Keep container tightlyclosed.
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

8.1. Exposure controls
Personal protection : Avoid all unnecessary exposure.
• Respiratory protection : Where exposur
e 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/m³] : (192 Skin.)
ILV (EU) - 15 min - [ppm] : (100 Skin.)
ILV (EU) - 15 min - [mg/m³] : (384 Skin.)
OEL (UK)-LTEL [ppm] : 50
OEL (UK)-STEL [ppm] : 150

9. Physical and chemical properties

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
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

10.1. Reactivity
Reactivity : Not established.
10.2. Chemical stability
Chemical stability : Stable under recommended storage conditions.
10.3. Possibility of hazardous reactions
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

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

12.1. Toxicity
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

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

14.1. Land transport (ADR-RID)
Proper shipping name : TOLUENE
UN N° : 1294
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 Quantites : 1 L
ERG-Nr : 3L

15. Regulatory information

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

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
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