# Material Safety Data Sheet

**TOLUENE Pure. C6H5.CH3 210 Kg** (RXSOL-19-1449-210)

## 1. Product and Company Identifaction

| | | |
|---|---|---|
| Product Name | : | RXSOL-19-1449-210 |
| Product Type | : | TOLUENE  Pure. C6H5.CH3 210 Ltr |
| Chemical Family | : | Aromatic Hydrocarbon |
| Product Description | : | Clear Colourless |

**Company Details:**

RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
VASHI ,NEW BOMBAY 400703 INDIA
Stock Point ::: Kandla, Mumbai, Kolkata, Chennai, Visakhapatnam, Fujairah

| | | |
|---|---|---|
| Phone | : | +91 22 27815541 / 42 |
| Fax | : | +91 22 2781 1318 :::AOH :0091 9821214367 |
| Email | : | mail@rxmarine.com |


## 2. Composition / informationon ingredients

| Name | CAS# | % by Weight |
|---|---|---|
| Toluene | F, Xn, R11, R20 | 99.89 |

## 3. Hazards Identification

| | |
|---|---|
| Health Hazards | Harmful by Inhalation |
| Physical / Chemical And Fire Exploslon | From Flamable Mixtures. |

## 4. First Aid Measures

Inhalation, Skin Contact, Eye Contact, Ingestion.

## 5. Fire-fighting Measures

| | |
|---|---|
| Procedure | Use Water Spray To Cool Fire Exposed, Surfaces, Protect Personal, and Shut Of  "Fuel" to Fire.Allow Fire To Burn Under Controlled Conditions, Extinguish With Alcohol Type Foam or Dry Chemical. Cover Liquid Spill With Foam. |

## 6. Accidental Release Measures

- Eliminate Ignition Sources. Prevent Liquid Enters Seawers, Water Sources, Low Area.
- Spill With Sand Earth . Dilute Contalend Spill With Water. Dispose Recover Material Conforms To local Regulation.
- Keep Public Away.

## 7. Handling and Storage

| | |
|---|---|
| Storage / Transport Tempreture : Amblent | Loading / Unloading Trempreture: Amblent |
| Loading / Unloading Viscosity: 0.64 | Storage / Transport Pressure: Atmospheric |
| Electrostatics Accumulation Hazards: Yes | Shipping Containers: Rall Wagons, Tanks Trucks, Tankers, Burges, Drums. |
| Materials Suitable : Carbon Steel, Stainless Still, Polyesters, Teflon. | Materials Unsuitable: Natural Rubber, Butyl Rubber, EPDM, Polyestyrene, Polyethylene, Polyproplene, Polvinyl Chloride, Polyacylonitrite. |

- Keep Container Closed,Store Cool And Well Ventilated, Open Slowly To Control Released Pressure.
- Keep Away From Flame, Direct Sunlight, Store Cool And Well Ventilated.
- Do Not Reuse Empty Containers W/OCleaning. Obserevs all Precauations For Empty Containers.

## 8. Exposure controls and personal protection

| | |
|---|---|
| Engineering Control Measures / Ventilation | Use Local Exhaust Ventilation To Control process.Provide Mechanical Ventilation Of Confined Spaces. Use Explosion Proof Ventilation Equipment. |
| Occupational Expourse Limits (OEL) Values | TWA; 50ppm (188mg/$m^{o}$) (Skin) ACIGH (2000). |
| Personal Protection | Vapor Respirator, Gloves, Goggles, Full Suit, Footwear. |

## 9. Physical and chemical properties

| | | | |
|---|---|---|---|
| Physical State | : Liquid | Form / Color | : Clear Colorless |
| Odor | : Hydcarbon Odor | Odor Threshold | : N/A |
| Ph | : N/A | Freezing / Melting Point | : 95*c |
| Boiling Point Range | : 110-111* c | Flash Point (Tcc ASTM D 56) | : 5*c |
| Explosive Limits (In Air) | : 1.3-6.7 vol% | Vapor Presure (38*c) | : 7kPa |
| Auto Ignition Tempreture | : >630* c | Density (15*c) | : 0.865 kg / dm |
| Specific Gravity (15.0 / 15.0) | : 0.865 | Vapour Density (101.3kPa/air=1) | : >1.00 |
| Solubility In Water (25*c) | : 0.05 WT% | Material Hydroscope | : No |
| Viscosity (26*c) | : 0.64cST | Evaporator Rate (n- Bu Acetate=1) | : 2,400 |

| | | | |
|---|---|---|---|
| Coeff, Of Thermal Expansion (Liq) | : 0.00106*c | Moiecular Weight | : 92 |

## 10. Stability and reactivity

Hazardous Pollymerization: No

Condition To Avoid Pollymerization : NA

Stability : Stable

Condition To Avoid Instability : NA

Materials and Conditions To Avoid: Strong Oxidizing agents
Hazardous Docompositions Products : None

## 11. Toxicological information

| | |
|---|---|
| Inhalation | Irritating to Eyes and Respiratory tract, diziness, central nervous System Effects. Negllglble Hazard between -18*c to 38*c |
| Skin Contact | Dry Skin, Low Order Of Toxicity. |
| Eye Contact | Cause Eyes Discomfort But Will Not Injure Eye Issue. |
| Ingestion | Minimal Toxicity, Small Amounts May Cause bronchpneumonia or Pulmonary edema. |

## 12. Ecological information

| | |
|---|---|
| Enviromental Mobility | Highly Volatile and Will rapidly evaporate To The air If rleased Into The Water. |
| Enviromental Degradability | Biodegrade Rapidly, Remove In Wastewalar Treatment Facility. |
| Ecotoxicity and Bioaccumulation | Expected to Be Harmful to Aquatic Organisms |

## 13. Disposal considerations

- Combine With Other Materials To Indicate another Roule Of Disposal
- Recycle, Recover Or Dispose Empty Drums Through a Suitably Qualified Or Licenced Contractor.
- Ensure Compliance With National And Local Regulation.
- Not Suitable For Disposal eighter Landfill or via muncipal seawers, Drains , Naturals Streams or Rivers, This Product is ash less and can be burned directly in apropriate equiptment.
- Contact Local TRansmare Chemical Company Supplier Or Local Authorities for More Information.

## 14. Transport information

| | Land | Sea | Air |
|---|---|---|---|
| Class | 3 | 3 | 3 |
| Pg | II | II | II |

| | | | |
|---|---|---|---|
| Un Number | 1294 | 1294 | 1294 |
| Subsidlary Risk | Nil | Nil | Nil |
| Transport Document Name | Toluene, Glass3, UN 1294, PG II, (5*C c.c.) | Toluene, Glass3, UN 1294, PG II, (5*C c.c.) | Toluene |
| Others | Hazchem Code : 3YE | Marine Pollutant : No EMS Number : F-E. S-D Risk Label 3 | |

## 15. Regulatory information

Classification And Laeling
Classification / Symbol : Highly Flammable / F
Classification / Symbol : Harmful / Xn

Governing Directive : Dangerous Substances
Directive 67 / 648 / EC
Label Name : Toluene

Nature Of Special Risk:
R11: Highly Flammable
R20 Harmful By Inhalation

Safety Advise:
S07 / 09 : Keep Container Close & Well Ventilated.
S16 : Keep Away From Sourses Of Ignition.
S25 : Avoid Eye Contact.
S29 : Do Not Empty Into Drains.
S33 : Take Precautionary Measures Against Static Dicharges.
S43A :In Case Of Fire, Use Sand, Earth, Chemical Powder Alcohol Type Foam.

## 16. Other information

Since 07 July 2007, This MSDS Has Been Revised In Section (s) 2, 14, 15. This Information Relateds Only To The Material Designated And May Not Be Valid For Such Information Is To The Best Of Knowledge And Belleved Accurate And Reliable As Of The Date Indicated. However, no Represention, Warranty Or Guarentee Is Made as to Its Accuary, Reliability of Completeness. It Is The User's Responsibility to satesfy himself as to the suitability and completeness of such Information for his Own Particular Use.

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