



Material Safety Data Sheet

R-100

Code : 01-003-0

Prepared By : ATT Laboratory

Validation Date : 01-Oct-2008

1. Chemical Product and Company Identification

Trade Name	:	R-100
Chemical Name	:	Solvent naphtha (petroleum) light aromatic
Chemical Formula	:	-
Material Uses	:	Raw material for used in the rubber, textile and chemical process industries, and in household products, surface coatings, printing inks, cleaners, and pesticide and wood preservative formulations.
Supplier	:	Asia Pacific Petrochemical Co., Ltd. 18 SCB Park Plaza Tower 2 (West), 21 st Floor, Zone C, Ratchadapisek Road, Chatuchak, Bangkok 10900 Telephone: 02 9375615-20 Facsimile: 02 9375434 www.apcbkk.com
Emergency Contact	:	081 9212721 & 081 6203971

2. Composition/Information on Ingredients

Synonyms Name	:	Shellsol A100	
		Solves 100	
Composition			
	Name	CAS No.	% By Volume
	Xylene	1330-20-7	~ 13
	Trimethyl benzene	25551-13-7	~ 37
UN No.	:	1268	
CAS No.	:	64742-95-6	

3. Hazards Identification

Safety Hazards	:	Flammable.
Human Health Hazards	:	Irritating to respiratory system. Vapours may cause drowsiness and dizziness. Irritating to skin. Repeated exposure may cause skin dryness or cracking.

Environmental Hazards : Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

4. First Aid Measures

Inhalation : Remove to fresh air. If the victim has difficulty breathing or tightness of the chest, give 100% oxygen with rescue breathing or CPR as required and transport to the nearest medical facility.

Skin Contact : Remove contaminated clothing. Immediately flush skin with large amounts water and follow by washing with soap if available.

Eye Contact : Immediately flush eyes with large amounts of water for at least 15 minutes while holding eyelids open. Transport to the nearest medical facility for additional treatment.

Ingestion : Do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration and transport to nearest medical facility for additional treatment.

5. Fire and Explosion Hazard Data

Flash Point (Method: Close Cup) : 38 °C

Flammable Limits : 1.2 - 7.5 %V

Auto Ignition Temperature : 250 °C (482 °F)

Chemical Reactivity : Stable under normal conditions

Materials to Avoid : Strong oxidizing agents.

Extinguishing Media : Water spray or fog, Dry chemical powder, Alcohol-resistant foam and Carbon dioxide.

Fire Fighting Additional Advice : Keep adjacent containers cool by spraying with water.

Protective Equipment : Wear full protective clothing and self-contained breathing apparatus.

6. Accidental Release Measures

Protective Measures :

- Observe all relevant local and international regulations.
- Avoid contact with spilled or released material. Immediately remove all contaminated clothing. For guidance on selection of personal protective equipment see chapter 8 this Material Safety Data Sheet. Shut off leaks, if possible without personal risks. Remove all possible sources of ignition in the surrounding area. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.
- Take precautionary measures against static discharge. Ensure

electrical continuity by bonding and grounding (earthing) all equipment.

Clean-Up Methods

- ♦ Small spillage (< 200 LT) : Transfer by mechanical means to a labeled, sealable container for product recovery or safe disposal. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely.
- ♦ large spillage (> 200 LT) : Transfer by mechanical means such as vacuum truck to a salvage tank for recovery or safe disposal. Do not flush away residues with water. Retain as contaminated waste. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely.

Other Information

- : Notify authorities if any exposure to the general public or the environment occurs or is likely to occur. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

7. Handling And Storage

Handling

- : Avoid contact with skin, eyes, and clothing. Do not breathe vapours. Extinguish any naked flame. Remove ignition sources. Avoid sparks. Do not smoke. The vapour is heavier than air spreads along the ground and distant ignition is possible. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Do not use compressed air for filling, discharging, or handling operations. Handle and open container with care in well-ventilated area. Do not empty into drains.

Storage

- : Must be stored in a diked (bunded) well-ventilated area, away from sunlight, ignition sources and other sources of heat. Bulk storage tanks should be diked (bunded). Keep away from aerosols, flammables, oxidizing agents, corrosives. Storage Temperature: Ambient.

Product Transfer

- : Keep containers closed when not in use. Do not use compressed air for filling, discharging, or handling operations. If positive displacement pumps are used, these must be fitted with a non-integral pressure relief valve. Ensure electrical continuity by bonding and grounding (earthing) all equipment.

Recommended Materials

- : For containers, or container linings use mild steel, stainless steel.

Additional Advice

- : Containers even those that have been emptied, can contain explosive vapours. Do not cut, drill, grind, weld or perform similar operations on or near containers.

8. Exposure Controls and Personal Protection

Exposure Standard	:	Occupational Exposure Limits			
		Material	Source	Type	mg/m ³
		Xylene	ACGIH	TWA	125
		Trimethyl benzene	UK OES	TWA	125
Engineering Controls Workplace	:	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective threshold limit value.			
Respiratory Protection	:	Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.			
Hand Protection	:	Butyl rubber gloves, Nature rubber gloves, Neoprene rubber gloves, Nitrile rubber gloves.			
Eye Protection	:	Chemical splash goggles (chemical monogoggles).			
Other Protection	:	Use protective clothing which is chemical resistant to this material. Safety shoes and boots should also be chemical resistant.			

9. Physical and Chemical Properties

Appearance	:	Clear liquid.
Odour	:	Specially odour.
Boiling Point (°C)	:	155 - 175 °C
Melting Point (°C)	:	No data available.
Specific Gravity	:	0.861 @ 15 °C (ASTM D4052)
Density (g/cm ³)	:	0.860 @ 15 °C (ASTM D4052)
Vapour Density	:	>1 @ 20 °C (air = 1)
Solubility in Water	:	Insoluble.
pH Value	:	No data available.

10. Stability and Reactivity

Stability	:	Stable under normal conditions.
Conditions to Avoid	:	Heat, flame, spark and other ignition sources.
Materials to Avoid	:	Strong oxidizing agents.

- Hazardous Decomposition Products** : Thermal decomposition is highly dependent on conditions. Carbon monoxide, carbon dioxide and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation. May form explosive peroxides.
- Hazardous Polymerisation** : No.

11. Toxicological Information

Acute Toxicity)

- ◆ LD₅₀ Acute oral toxicity : >2,000 mg/kg , (rat)
- ◆ LD₅₀ Acute dermal toxicity : >2,000 mg/kg , (rat)
- ◆ LC₅₀ Acute Inhalation Toxicity : >20 mg/l/4 hours , (rat)

- Skin Irritation** : Irritating to skin. Prolonged/repeated contact may cause defatting of the skin which can lead to dermatitis.
- Eye Irritation** : Irritating to eyes.
- Respiratory Irritation** : Inhalation of vapours or mists may cause irritation to the respiratory system.
- Carcinogenicity** : No data available.

12. Ecological Information

Acute Toxicity

- ◆ Fish : Low toxicity 1 < LC/EC/IC₅₀ ≤ 10 mg/l
- ◆ Aquatic Invertebrates : Low toxicity 1 < LC/EC/IC₅₀ ≤ 10 mg/l
- ◆ Algae : Low toxicity 1 < LC/EC/IC₅₀ ≤ 10 mg/l

- Mobility** : Floats on water. Adsorbs to soil and low mobility.
- Persistence / Degradability** : Readily biodegradable.
- Bio-accumulation** : Has the potential to bioaccumulate.

13. Disposal Considerations

- Material Disposal** : Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classifications and disposal methods in compliance with applicable regulations.
- Container Disposal** : Drain container thoroughly. After draining, vent in a safe place away from sparks and fire. Refer to Section 7 before handling the product or containers. Residues may cause an explosion hazard. Do not puncture, cut or weld uncleaned drums. Send to drum recoverer or metal reclaimer.

Local Legislation : Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.

14. Transport Information

Road/Rail Transport ADR/RID

- ◆ UN. Number : 1268
- ◆ Class/Item : 3
- ◆ Hazard Symbol : Flammable Liquid
- ◆ Proper Shipping Name : Petroleum Distillates, N.O.S.
- ◆ Packing Group : III

Maritime Transport IMO

- ◆ UN. Number : 1268
- ◆ Class : 3
- ◆ Packing Group : III
- ◆ Hazard Symbol : Flammable Liquid
- ◆ Proper Shipping Name : Petroleum Distillates, N.O.S.
- ◆ Marine Pollutant : No

Air Transport IATA/ICAO

- ◆ UN. Number : 1268
- ◆ Class : 3
- ◆ Packing Group : III
- ◆ Hazard Symbol : Flammable Liquid
- ◆ Proper Shipping Name : Petroleum Distillates, N.O.S.

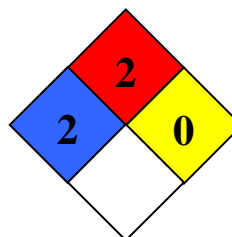
15. Regulatory Information

- EC Label Name : Solvent naphtha (petroleum) light aromatic
- EC Classification : Flammable, Harmful, Dangerous for the environment.
- EC Symbol : F
Xn
N

EC Risk Phrases	:	R 10 Flammable R 20/21 Harmful by inhalation and in contact with skin. R 36/37/38 Irritating to eyes, respiratory system and skin. R 51/53 Toxic to aquatic organisms, may cause long-term adverse effect in the aquatic environment. R 65 Harmful: may cause lung damage if swallowed. R 66 Repeated exposure may cause skin dryness or cracking. R 67 Vapours may cause drowsiness and dizziness.
EC Safety Phrases	:	S 23 Do not breathe vapour. S 24 Avoid contact with skin. S 25 Avoid contact with eyes. S 61 Avoid release to the environment. Refer to special instructions/Safety data sheet. S 62 If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.
EINECS (EC)	:	265-199-0
EC Annex I Number	:	649-356-00-4

16. Other Information

National Fire Protection Association (USA) :



- Health
- Fire Hazard
- Reactivity
- Specific Hazard

MSDS Distribution	:	The information in this document should be made available to all who may handle the product.
Prepared By	:	Quality Control Department. Asia Pacific Petrochemical Co., Ltd.

Disclaimer : The information contained herein is based on our current knowledge of the underlying data and is intended to describe the product for the purpose of health, safety and environmental requirements only. No warranty of guarantee is expressed or implied regarding the accuracy of these data or the results to be obtained from the use of the product.

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