



# SAFETY DATA SHEET

## IPSOL 100

### 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Product name: IPSOL 100  
Recommended use: Chemical for industry.  
Manufacturer/Supplier: **MODERN CHEMICAL Co.Ltd.**  
82/80 Soi Eakamai 22 (Nuan-noi) Sukhumvit Road 63,  
North Klong Ton, Wattana, Bangkok 10110  
Telephone No: 0-2715-0897-9, 0-2392-3410-3  
Fax No: 0-2715-0908-9, 0-2391-1571-2  
Emergency Telephone No: 0-2715-0897-9, 0-2392-3410-3

### 2. HAZARDS IDENTIFICATION

#### Label elements

#### Pictogram



#### Signal word

Danger

#### Hazard statement(s):

- 1.) Flammable liquid and vapour.
- 2.) May be fatal if swallowed or enters airways.
- 3.) Harmful in contact with skin.
- 4.) Causes mild skin irritation.
- 5.) Cause respiratory irritation.
- 6.) May cause drowsiness or dizziness.
- 7.) Toxic to aquatic life with long lasting effects.

#### Precautionary statement(s):

- 1.) Keep away from ignition sources /heat/sparks/open flames. - No smoking.
- 2.) Keep container tightly closed.



- 3.) Ground / bond container and receiving equipment.
- 4.) Use explosion-proof electrical ventilating, and lighting equipment.
- 5.) Use only non-sparking tools.
- 6.) Take precautionary measures against static discharge.
- 7.) Wear protective gloves/protective clothing/eye protection/face protection.
- 8.) Avoid breathing dust/fume/gas/mist/vapours/spray.
- 9.) Use only outdoors or in a well-ventilated area.
- 10.) Wash hand thoroughly after handling.
- 11.) Avoid release to the environment.
- 12.) IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- 13.) In case of fire: Use appropriate media for extinction.
- 14.) IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- 15.) Call a POISON CENTER or doctor/physician if you feel unwell.
- 16.) IF SWALLOWED: if you feel unwell, call a POISON CENTER or doctor/physician.
- 17.) Do NOT induce vomiting.
- 18.) Store in a well-ventilated place.
- 19.) Dispose of contents and container in accordance with local regulations.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Synonym:** Supersol100, Solvesso 100, Shellsol A-90

Ingredients	% (w/w)	CAS NO.
IPSOL 100	100	64742-95-6

### 4. FIRST AID MEASURES

**General advice:** No data available.

**Inhalation:** Remove to fresh air. If rapid recovery does not occur, transport to nearest medical facility for additional treatment.

**Skin contact:** Remove contaminated clothing. Immediately flush skin with large amounts of water, and follow by washing with soap and water if available. If persistent irritation occurs, obtain medical attention.

**Eye contact:** Flush eye with copious quantities of water. If persistent irritation occurs, obtain medical attention.



**Ingestion:** If swallowed, do not induce vomiting: transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. If any of the following delayed signs and symptoms appear within the next 6 hours, transport to the nearest medical facility : fever greater than 101 °F (38.3 °C), shortness of breath, chest congestion or continued coughing or wheezing. Immediately bring the nearest hospital.

## 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media:

Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Do not discharge extinguishing waters into the aquatic sea or river.

### Unsuitable Extinguishing Media:

Do not use water in a jet.

### Specific hazards arising from Chemicals:

Carbon monoxide may be evolved if incomplete combustion occurs. Will float and can be reignited on surface water. The vapour is heavier than air, spreads along the ground and distant ignition is possible.

### Special protective equipment for fire-fighters:

Wear full protective clothing and self-contained breathing apparatus.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Avoid contact with spilled or released material. Immediately remove all contaminated clothing. For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. For guidance on disposal of spilled material see Chapter 13 of this Material Safety Data Sheet.

**Environmental Precautions:** Shut off leaks, if possible without personal risks. Remove all possible sources of ignition in the surrounding area. Use appropriate containment (of product and fire fighting water) to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers. Attempt to disperse the vapor or to direct its flow to a safe location for example by using fog sprays. Take precautionary measures against static discharge. Ensure electrical continuity by bonding and grounding (earthing) all equipment.



### **Methods and Material for Containment and Clean Up:**

For small liquid spills (<1 drum), 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. For large liquid spills (>1 drum), 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.

## **7. HANDLING AND STORAGE**

### **Precautions for Safe Handling & Product Transfer:**

Avoid contact with skin, eyes and clothing. Extinguish any naked flames. Do not smoke. Remove ignition sources. Avoid sparks. 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. Restrict line velocity during pumping in order to avoid generation of electrostatic discharge. Avoid splash filling. Do NOT use compressed air for filling, discharging, or handling operations. Handle and open container with care in a well-ventilated area. Ventilate workplace in such a way that the Occupational Exposure Limit (OEL) is not exceeded. Do not empty into drains. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Restrict line velocity during pumping in order to avoid generation of electrostatic discharge. Avoid splash filling. Do NOT use compressed air for filling, discharging, or handling operations. Electrostatic charges may be generated during pumping. Electrostatic discharge may cause fire. If positive displacement pumps are used, these must be fitted with a non-integral pressure relief valve.

### **Conditions for Safe Storage & Unsuitable Materials:**

Must be stored in a diked (bunded) well-ventilated area, away from sunlight, ignition sources and other sources of heat. Storage temperature: ambient. Avoid prolonged contact with natural, nitrile or butyl rubbers.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Occupational Exposure Limits:** TWA 25 - 100 ppm.

**Appropriate Engineering Controls:** No data available.



## Individual Protection Measures

- Respiratory protection:** Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for organic gases and vapors [boiling point  $<65^{\circ}\text{C}$  ( $149^{\circ}\text{F}$ )] meeting EN14387. Where respiratory protective equipment is required, use a full face mask. Where air-filtering respirators are unsuitable (e.g. airborne concentrations are high, risk of oxygen deficiency, confined space) use appropriate positive pressure breathing apparatus.
- Hand protection:** Longer term protection: Nitrile rubber. Incidental contact/splash protection: Neoprene rubber or PVC.
- Eye protection:** Safety glasses (EN166).
- Skin and body Protection:** Chemical resistant gloves/gauntlets, boots, and apron for chemical protection.
- Hygiene measure:** No data available.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form, Color and Odor :</b> liquid, colourless, Aromatic	<b>Evaporation rate :</b> $< 1.0$ ( n-BuAc = 1)
<b>Melting Point :</b> N/A	<b>Specific gravity :</b> 0.8600-0.8900 $\text{g/cm}^3$ at $15^{\circ}\text{C}$
<b>pH :</b> Not applicable	<b>Solubility in water :</b> Insoluble
<b>Boiling point :</b> $150-185^{\circ}\text{C}$	<b>Viscosity :</b> N/A
<b>Vapour pressure :</b> $< 1.3$ kPa at $20^{\circ}\text{C}$	<b>Vapour density :</b> 4.3
<b>Lower explosive limits :</b> 0.6 %Vol	<b>Upper explosive limits :</b> 7.0 %Vol
<b>Auto-ignition temperature :</b> $507^{\circ}\text{C}$	<b>Flash Point :</b> $38 - 50^{\circ}\text{C}$
<b>Odour threshold :</b> N/A	<b>Flammability (solid, gas) :</b> N/A
<b>Decomposition temperature:</b> Stable under normal condition of use	<b>Solubility in other solvents :</b> N/A
<b>n-octanol/water partition coefficient (<math>\log P_{ow}</math>) :</b> 3.7 – 4.5	

## 10. STABILITY AND REACTIVITY

- Chemical Stability:** Stable under normal condition of use.
- Reactions:** No data available.
- Possibility of Hazardous Reactions:** No data available.
- Conditions to avoid:** Heat, sparks, open flames and other ignition source.



**Materials to be avoided:** Strong oxidizing agents.

**Hazardous Decomposition Products:** Thermal decomposition is highly dependent on conditions. A complex mixture of airborne solids, liquids and gases, including carbon monoxide, carbon dioxide and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.

## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity:** LD50 (Oral, rat) : >2000 - <=5000 mg/kg

LD50 (Dermal, rabbit) : >2000 mg/kg

**Sensitization:** Inhalation: High concentrations may cause central nervous system depression resulting in headaches, dizziness and nausea. Inhalation of vapors or mists may cause irritation to the respiratory system. Skin irritation: Causes mild skin irritation. Prolonged/repeated contact may cause defatting of the skin which can lead to dermatitis. Serious eye damage/irritation: Expected to be non-irritating to eye. Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

**Chronic toxicity:** Incidence of tumors increased in experimental animals. But no clear evidence, can refer to human tumors in contact (Cumene). Causes foetotoxicity in animals at doses which are maternally toxic. Not a developmental toxicant. May cause drowsiness or dizziness. May cause respiratory irritation. Auditory system: prolonged and repeated exposures to high concentration have resulted in hearing loss in rats. Solvent abuse and noise interaction in the work environment may cause hearing loss (Xylene). Kidney: caused kidney effects in male rats which are not considered relevant to humans.

**Further toxicological information:** No data available

## 12. ECOLOGICAL INFORMATION

### Toxicity

Toxicity to fish: Toxic: LL/EL/IL50 1 - 10 mg/l.

Toxicity to daphnia and other aquatic invertebrates: Toxic: LL/EL/IL50 1 - 10 mg/l.



Toxicity to algae:	Toxic: LL/EL/IL50 1 - 10 mg/l.
Toxicity to bacteria:	Harmful: LL/EL/IL50 50 - 100 mg/l.
Biodegradability Remarks:	Expected to be readily biodegradable.
Bioaccumulative Potential:	Dose not have the potential to bioaccumulate significantly.
Mobility:	Floats on water. If product penetrates soil. It will leak moderately. And may cause groundwater contamination.
Affected in any other way:	No data available.

### 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 classification and disposal methods in compliance with applicable regulations. Do not dispose into the environment, in drains or in water courses. Waste product should not be allowed to contaminate soil or water.

**Container Disposal:** Drain container thoroughly. After draining, vent in a safe place away from sparks and fire. Residues may cause an explosion hazard. Do not, puncture, cut, or weld uncleaned drums. Send to drum recoverer or metal reclaimer.

### 14. TRANSPORT INFORMATION

#### LAND

Proper Shipping Name: PETROLEUM DISTILLATES, N.O.S.

Hazard Class: 3

Hazchem Code: 30

UN Number: 1268

Packing Group: III

Label(s) / Mark(s): 3, EHS

#### SEA (IMDG)

Proper Shipping Name: PETROLEUM DISTILLATES, N.O.S.

Hazard Class & Division: 3

EMS Number: F-E, S-E

UN Number: 1268

Packing Group: III



Label(s): 3

Transport Document Name: UN1268, PETROLEUM DISTILLATES, N.O.S., 3, PG III, (41°C c.c.)

**AIR (IATA)**

Proper Shipping Name: PETROLEUM DISTILLATES, N.O.S.

Hazard Class & Division: 3

UN Number: 1268

Packing Group: III

Label(s) / Mark(s): 3

Transport Document Name: UN1268, PETROLEUM DISTILLATES, N.O.S., 3, PG III

**15. REGULATORY INFORMATION**

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

**Chemical Inventory Status**

DSL	:	Listed.	
INV (CN)	:	Listed.	
TSCA	:	Listed.	
EINECS	:	Listed.	265-199-0
KECI (KR)	:	Listed.	KE-31662
PICCS (PH)	:	Listed.	

**16. OTHER INFORMATION**

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