

# Varsol - Solvent

## Spill Assessment

### *Gather Available Information*

Shipping Manifest Required

Product ID: Petroleum Distillates, N.O.S.

TDG Class: Class 3 Flammable Liquid

UN# & PG: UN1268 PG III

Mixed Load Limited Quantity: PG III 5L up to accumulation of 500L

ERAP Index: None Required

Passenger Vehicle Limitation: PG III 60L

MSDS Common Packing Group Category: PG III

Marine Pollutant: Potential Marine Pollutant

Compatibility Issues: Not compatible with oxidizing agents  
Static accumulator – grounding required

### *Manufacture Information*

Name/ Contacts:

Tel:

Cell:

### *Assess the Volume Spilled*

Total volume:

Number of Containers:

Product not spilled:

Product recovered / Contained:

### *Product Information:*

Physical Classification: Liquid

Color: Clear colorless

Odor: Mild - petroleum

pH: Not applicable

Vapor Density: 4.9 (air=1)

Molecular Formula: Comprises of petroleum distillates.

Specific Gravity: 0.8 (water = 1)

Solubility: Negligible. Not soluble in water

Flash Point: 43°C

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Conditions of Instability: Reactive with strong oxidizing agents

Conditions to avoid: Electrostatic Accumulation Hazard. Use proper grounding and bonding procedures when handling, transferring, pumping, storing and cleaning

## Safety Assessment

### *Responders Safety*

Public Security Perimeter: 50m for liquid spills

Evacuation Perimeter: 800m for major incident involving fire

PPE Requirement for major spills: Splash Glasses/ Goggles. Rubber Boots. Gloves (Nitrile, Neoprene, PVC). Tyvek® suits are recommended. Use NIOSH approved respirators (hydrocarbon cartridge) or SCBA to avoid inhalation of the vapors (usually at large spills).

Structural Fire Fighters' Protective Clothing: Only provides limited protection. Consider chemical protective clothing at large spills

Routes of Entry: Skin contact, eyes, inhalation and ingestion.

Acute Health Effects: Skin: low toxicity. Irritating. Frequent or prolonged contact may irritate the skin and cause a skin rash (dermatitis).

Eye: Slightly irritating, but will not injure eye tissue.

Ingestion: Minimal toxicity. Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause mild to severe pulmonary injury and possible death.

Inhalation: High vapor/ aerosol concentrations are irritating to the eyes and the respiratory tract, and may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness, and other central nervous system effects, including death.

Decontamination Requirements: Full decon unit should be on standby.

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## *Product Safety Information:*

Toxic Vapors: Will form during combustion

Combustible: May form combustible mixtures at or above the flash point.

Hazard Statement: Flammable Liquid and Vapor. Precautions must be taken to prevent static-initiated fire or explosion during handling, transfer. Bonding and grounding is mandatory

Hazardous Combustible Products: Fumes, smoke and carbon monoxide (CO)

Vapors: Vapor is flammable and heavier than air. Vapor may travel across the ground and reach remote ignition sources, causing flashback fire danger.

Large Fire Hazards: Use foam, dry chemicals, or water spray as extinguishing agents

Toxic gases will form upon combustion

*First Aid Requirements:* see MSDS for full details. Contact Manufacture.

## Environmental Assessment

### *Assess the following Conditions*

Ambient Temperatures:

Precipitation (%):

Sunrise (time)/ Sunset (time):

Slope or ground contour (% gradient):

Porous Soil (sand/ cobble):

Dense Soil (clay/ bedrock):

Ground cover (foliage/ peat/ marsh / snow):

### *Assess Distance to Water Body*

<5m:

5-15m:

>15m:

### *Identify the Water Body*

Distance Marker (km #):

Name of nearby water bodies:



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Fisheries assessment reports:

Distance to other tributaries:

## *Effects of Product into Water*

Environmental effects: Varsol readily evaporates. In rough or turbulent water more product will partially dissolve into the water column.

Toxicity: Acutely toxic to aquatic organisms and fish

May cause long-term adverse effects to the aquatic environment

Specific Properties: Dispersal – Varsol will continue to disperse  
Dissolves / solubility – Varsol will dissolve (negligibly) depending on ambient conditions of environment  
Evaporation – Readily evaporates  
Emulsification – Depends on surface water conditions to produce a milky white water/oil mixture.

Spill Response: Assess, Contain, Recover & Dispose. Refer to specific guidelines.  
If the Flash Point exceeds the Ambient Temperature by 10°C or more, use containment booms and remove from the surface by skimming or with suitable absorbent when conditions permit  
If the Flash Point does not exceed the Ambient Temperature by 10°C, use containment booms as barriers to protect shoreline and allow material to evaporate.

## *Effects of Product on Air*

Spill to open environment (no fire): Highly volatile and is expected to degrade rapidly in air

Hazardous Decompositions (no fires): Vapor is flammable and heavier than air. Vapor may travel across the ground and reach remote ignition sources, causing flashback fire danger.

Photo-degradation: Not expected to be significant

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## *Effects of Product on Land*

- Effects on Land: Varsol is highly mobile and will impacts and contaminate soil and groundwater.  
Varsol will readily biodegrade in soil. Microorganisms will effectively breakdown contaminated soil if actively treated. Evaporation will also occur during the mixing (aeration) process
- Spill Response: Assess, Contain, Recover & Dispose. Refer to specific guidelines.
- Grounding: Ground and bond all product handling equipment, pumps and containers
- Tools: Use intrinsically safe (non-sparking) tools for spill clean-up
- Biodegradation: Varsol is biodegradable with appropriate treatment techniques