

# SAFETY DATA SHEET

## 1. IDENTIFICATION

**Product Name:** PEG SOLVENT 100

**Other Names:** Aromatic Hydrocarbon Medium FP, High Aromatic White Spirits, High Aromatic Hydrocarbon Solvent, Solvent A100, Pegasol R100

**Recommended Use:** Solvent for coatings (stoving enamels, paints, lacquers and varnishes) mainly in automotive and metal industry.

**Supplier:** TMK Packers Ltd  
**Address:** 22 Trugood Drive, East Tamaki, Auckland 2013  
PO Box 258 031, Botany, Auckland 2163  
**Telephone:** (+64) 9 273 3753  
**Facsimile:** Website: [www.tmkpackers.co.nz](http://www.tmkpackers.co.nz)

**Emergency phone:** 0800 273327 (TMK Packers Ltd 24 Hr)  
**National Poisons Centre:** 0800 POISON [0800 764 766]

## 2. HAZARDS IDENTIFICATION

### Hazardous Nature:

This product is classified as hazardous under GHS (7th revised edition) in accordance with the New Zealand Hazardous Substances (Hazard Classification) Notice 2020.

### GHS Classifications:

flammable liquids Category 3, eye irritation Category 2, reproductive toxicity Category 2, specific target organ toxicity – single exposure Category 2, hazardous to the aquatic environment chronic Category 2

### GHS Pictograms:



**Signal word:** DANGER

### Hazard Statements:

H226: Flammable liquid and vapour  
H319: Causes serious eye irritation  
H361: Suspected of damaging fertility or the unborn child.  
H373: May cause damage to organs through prolonged or repeated exposure.  
H411: Toxic to aquatic life with long-lasting effects.

### Prevention Statements:

P201: Obtain special instructions before use  
P202: Do not handle until all safety precautions have been read and understood.  
P210: Keep away from heat, open flames, hot surfaces. No smoking.



P233: Keep container tightly closed.  
P240: Ground/bond containers and receiving equipment.  
P241: Use explosion proof electrical/ventilating/lighting equipment.  
P242 Use only non-sparking tools.  
P243: Take precautionary measures against static discharge.  
P260: Do not breathe dust/fume/gas/mist/vapors/spray  
P264: Wash hands thoroughly after handling.  
P273: Avoid release to the environment.  
P280: Wear protective gloves and eye protection.

#### Response Statements:

P314: Get medical advice/attention if you feel unwell.  
P391: Collect spillage.  
P303+P361+P353: IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.  
P308+P313: IF exposed or concerned: Get medical advice/attention.  
P337+P313: If eye irritation persists: Get medical advice/attention.  
P370+P378: In case of fire: Use foam, CO2 or dry chemical to extinguish.

#### Storage Statements:

P403 + P235; Store in a well-ventilated place. Keep cool.  
P405: Store locked up.

#### Disposal Statements:

P501: Dispose of waste in accordance with Regional Authority or local council regulations.

### 3. COMPOSITION INFORMATION

Chemical Ingredient	CAS No.	Proportion (%)
Naphtha petroleum, light aromatic	64742-95-6	85 - 95
Naphtha petroleum, medium aliphatic	64742-88-7	5 - 15
Mixture may contain:		
1,2,4 Trimethylbenzene	95-63-6	30 - 35
Mesitylene	108-67-8	8 - 11
Propylbenzene and Isopropylbenzene (cumene)	98-82-8	6 - 8
Xylene, mixed isomers	1330-20-7	< 2

### 4. FIRST AID MEASURES

For advice, contact National Poison Centre (0800 POISON: 0800 764 766) or a doctor.  
Have product container or label available.

#### Swallowed

If swallowed, do NOT induce vomiting. Rinse mouth. Get medical attention. If spontaneous vomiting occurs, hold patients head below hips to avoid possible aspiration of vomitus into lungs.

#### Skin Contact

If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If irritation persists get medical attention.

#### Eye Contact

Hold eyelids apart and flush the eye continuously with running water. Continue flushing



for at least 15 minutes. Remove contact lenses if present and easy to do, after the first 5 minutes and continue rinsing. Get medical attention if irritation persists.

#### Inhalation

Move the victim to fresh air immediately. Keep warm and at rest until recovered. Get medical attention if recovery is not rapid.

**First Aid Facilities:** Provide eye bath and hand washing facilities.

**Advice to Doctor:** Treat according to symptoms. Risk of aspiration into lungs with potential to cause chemical pneumonitis.

## 5. FIRE FIGHTING MEASURES

**Flashpoint:** 45°C

**Flammable limits:** LFL : 0.8% UFL: 7.0%

#### Extinguishing media:

Foam, CO2 or dry chemical. Use water spray or water fog on large fires only.

#### Fire & Explosion hazards:

Flammable liquid and vapour. The vapour forms explosive mixtures with air. Do not breathe smoke, gases or vapours generated in a fire. Decomposition products may be toxic.

#### Firefighting Equipment:

Full protective clothing and self-contained breathing apparatus (SCBA).

#### In event of fire:

- Alert Fire Bridge (111); advise location and nature of hazard.
- Keep bystanders away.
- Wear breathing apparatus and protective gloves.
- Shut off product that may 'fuel' a fire if safe to do so.
- Eliminate sources of ignition
- If safe, switch off electrical equipment until vapour hazard removed.
- Use fine water spray to control fire and cool adjacent area.
- Allow trained personnel to attend a fire in progress, providing fire-fighters with this Safety Data Sheet.
- Prevent product and extinguishing media from escaping to drains and waterways.

#### Hazards from combustion products:

Product will emit toxic fumes of carbon monoxide and carbon dioxide.

**Hazchem Code:** 3Y

## 6. ACCIDENTAL RELEASE MEASURES

#### Emergency Procedures & Containment:

Refer to "Fire Fighting Measures", "First Aid Measures" and "Stability and Reactivity".

#### Minor spills

- Clean up spills immediately.
- Remove all ignition sources.
- Avoid breathing vapours and contact with skin and eyes.



- Wear personal protective equipment.
- Contain and absorb small quantities with vermiculite or other absorbent material.
- Collect residues and waste material in a labelled container.
- Seal container and dispose of safely.

#### Major spills

- Clear area of personnel and move upwind.
- Alert Fire Bridge (111); advise location and nature of hazard.
- Wear breathing apparatus plus protective gloves.
- Eliminate ignition sources, naked lights. No smoking.
- Stop leak if safe to do so.
- Water spray or water fog may be used to disperse or absorb vapour.
- Contain spill with sand, earth or vermiculite.
- Use spark-free shovels and explosion proof equipment.
- Prevent by any means available, spillage from entering drains, sewers, watercourses, or low-lying areas.
- Increase ventilation.
- Collect recoverable product into labeled contains for recycling.
- Absorb remaining product with sand, earth or vermiculite.
- Collect solid residues and seal in labelled drums for disposal.
- Wash area and prevent run off into drains.
- If contamination of drains or waterways occurs, advise Emergency Services and Local or Regional authority.

## 7. HANDLING AND STORAGE

#### Precautions for safe handling:

Read product label before use. Use in well-ventilated area. flammable liquid and vapour. Avoid smoking, naked lights or ignition sources. Avoid generation of static electricity. Use only spark-free tools.. Avoid all personal contact including by inhalation. Wear personal protective equipment and clothing including gloves and wash hands with soap and water after handling.

#### Conditions for safe storage:

Store in original packaging in a cool, dry well-ventilated place out of reach of children. Check containers periodically for leaks or distortion.

#### Incompatible materials:

Natural rubber, butyl rubber, nitrile rubber, EPDM, polystyrene.

## 8. EXPOSURE CONTROLS: PERSONAL PROTECTION

#### Health Exposure Standards:

Workplace Exposure Standards (WES) have been set by the Occupational Safety and Health Service, NZ Department of Labour for components in this product.

	WES-TWA	WES-STEL
Cumene (skin)	25 ppm (125 mg/m <sup>3</sup> )	75 ppm (375 mg/m <sup>3</sup> )
Xylene	50 ppm (217 mg/m <sup>3</sup> )	

#### Biological limit values:

Xylene End of shift, as methylhippuric acid in urine, BEI 1.5 g/litre

#### Engineering Controls:

**Ventilation:** Avoid breathing vapours. Use product outdoors or in well-ventilated area. Wear a SAA approved





respirator when using in confined area or where over-exposure risk exists.

**Personal Protective Equipment:**

**Respiratory Protection:** Where air concentration may exceed Workplace Exposure Standard, wear SAA approved respiratory protection. A half-filter mask and type 'A' filter material should be suitable.

**Eye Protection:** Protect eyes from splashes. Always use safety glasses with side shields, or wear goggles.

**Skin/ Body Protection:**

Wear gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber, and clothing with long sleeves and long trousers or coveralls.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Unit of measurement	Typical value
Appearance	-	Clear colourless liquid
Odour	-	Solvent
Flash Point	°C	45
Specific gravity @ 20°C	g/ml	0.87 – 0.88
Vapour Pressure @ 20°C	kPa	0.278
Vapour Density @ 20°C	kPa	>1
Explosive Limits in Air	%	0.8 – 7.0
Viscosity	cSt	Not available
Volatiles	%vol/vol	100
Alkalinity/acidity (as pH)	-	Not applicable
Solubility in Water	% w/w	Immiscible

The values listed are indicative of this product's physical and chemical properties.

## 10. STABILITY AND REACTIVITY

**Chemical Stability:** Stable at room temperature and pressure.

**Conditions to avoid:** Sources of heat, ignition, open flames and contact with oxidizing agents.

**Hazardous decomposition products:**

No decomposition products except on burning.  
See "Fire Fighting Measures" and "Hazardous Reactions".

**Hazardous reactions:** With oxidizing agents, mineral acids, halogenated organic compounds.

## 11. TOXICOLOGICAL INFORMATION

**Acute Effects**

**Ingestion**

May be harmful if swallowed. Swallowing small amounts or from vomiting may cause aspiration into lungs and cause chemical pneumonitis or pulmonary odema. Ingesting any amount may result in headaches, nausea, dizziness and tracheal burning.

**Eye Contact**

This product may be irritating to the eyes resulting in tearing and redness but will not permanently damage eye tissue.

**Skin Contact**



This product can be irritating to the skin. Prolonged or repeated exposure may defat skin leading to drying and cracking of skin.

#### **Inhalation**

Vapours may be harmful and may cause discomfort to the upper respiratory tract. Symptoms of over-exposure over a long period of time may be muscle weakness, tingling in hands and feet, blurred vision, headaches, nausea, loss of appetite, hallucinations and possible loss of consciousness.

#### **Chronic Effects:**

Repeated or prolonged exposure to mixed hydrocarbons may result in dizziness, weakness, irritability, lack of concentration and memory loss, tremor of extremities, e.g. fingers, weight loss, anemia, ill-effects to liver and kidneys.

#### **Other Health Effects Information:**

This product may contain a low concentration of xylene (<2%) a compound identified as suspected of damaging fertility or the unborn child. Additionally, xylene, 1,2,4-trimethyl benzene, propylbenzene, and isopropylbenzene (cumene) are compounds that may cause adverse damage to organs through prolonged or repeated exposure. Target organs affected are the central nervous, pulmonary, blood and hematopoietic systems.

#### **Toxicological Information:**

1,2,4-Trimethylbenzene	Oral, LD <sub>50</sub> , rat 3280 mg/kg Inhalation LC <sub>50</sub> (4hr), rat 18 mg/L
Cumene	Oral, LD <sub>50</sub> , rat 1400 mg/kg Dermal, LD <sub>50</sub> , rabbit >3160 mg/kg Inhalation, LC <sub>50</sub> (4hr), rat 40 mg/L

## **12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity:**

**Aquatic toxicity:** This product has been classified as being toxic to aquatic life with long-lasting effects.

Do not discharge product to sewer, drains or waterways.

**Persistence/degradability:** Not expected to be persistent or bioaccumulative. Degrades rapidly in air.

**Mobility:** Product is not miscible with water.

**Other information:** Not available.

#### **Environmental Exposure Standards:**

Not set

## **13. DISPOSAL CONSIDERATIONS**

#### **Disposal Methods:**

Empty packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor. Care should be taken to ensure compliance with national, regional and local authority regulations. Packaging may still contain harmful and flammable product vapours. Allow to dry before disposal.

## **14. TRANSPORT INFORMATION**

UN Number: 1268  
Shipping name: PETROLEUM DISTILLATES, N.O.S.  
Class: 3



Packing group: III  
 Hazchem code: 3Y

### **Dangerous Goods Segregation**

This product is classified as Dangerous Good Class 3.  
 Please consult NZS 5433:2020 Transport of Dangerous Goods on Land for information.



## **15. REGULATORY INFORMATION**

**Country/ Region:** New Zealand  
**Inventory:** NZ Inventory of Chemicals  
**Status:** Listed

**EPA New Zealand Approval Code:** HSR002650 Solvents (Flammable) Group Standard 2020.  
 Refer [www.epa.govt.nz](http://www.epa.govt.nz) for information on Controls.

## **16. OTHER INFORMATION**

**Issue number:** 6  
**Date of Issue:** 20<sup>th</sup> March 2025  
**Reasons for Issue:** Update GHS classifications  
**Replaces:** 22<sup>nd</sup> April, 2024

### **Abbreviations:**

ACGIH	American Conference of Governmental Industrial Hygienists
AS/NZS	Standards Australia & Standards New Zealand
BCF	Bioconcentration Factor
BEI	Biological Exposure Index
CAS	Chemical Abstracts Service
CCID	Chemical Classification and Information Database
EC50	Effective Concentration, 50 per cent
EPA	Environmental Protection Authority
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
GHS 7	Globally Harmonised System of Classification and Labelling of Chemicals, 7th revised edition, 2017, published by the United Nations
HSNO	Hazardous Substances and New Organisms Act 1996
HSWA	Health and Safety at Work Act 2015
IARC	International Agency for Research on Cancer
IC50	Half Maximal Inhibitory Concentration
LC50	Lethal Concentration, 50 per cent
LD50	Lethal Dose, 50 per cent
LEL	Lower Explosive Limit
LOAEL	Lowest-observed-adverse-effect level N/R: Not Regulated
NOAEL	No-observed-adverse-effect-level
NOEC	No Observed Effect Concentration



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NZIoC	New Zealand Inventory of Chemicals
NZS 5433	New Zealand Standard Transport of Dangerous Goods on Land
OECD	Organisation for Economic Co-operation and Development
STEL	Short-Term-Exposure Limit
TLV	Threshold Limit Value
TWA	Time-Weighted Average
UEL	Upper Explosive Limit
WES	Workplace Exposure Limit

**References:**

Supplier Safety Data Sheets

EPA website: [www.epa.govt.nz](http://www.epa.govt.nz)

The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the writer's knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses, but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product. For further information, please contact TMK Packers Ltd.

END OF SAFETY DATA SHEET

