



# SAFETY DATA SHEET

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Revised edition no : 05

## P-573 TURPENTINE (WHITE SPIRIT)

Effective Date: 29/3/2024

### 1 Identification of the Substance / Mixture and of the supplier

#### 1.1 Product Identifier

Trade Name : Turpentine (White Spirit)  
EC No : 265-185-4  
Molecular Formula : No data available

#### 1.2 Relevant Identified Uses of the Substance or mixture and Uses Advised Against

Relevant Identified Uses : Industrial Solvent  
Uses Advised Against : No Data Available

#### 1.3 Detail of the Supplier of the safety Data Sheet

Supplier : TLC-KOYA CHEMICALS MANUFACTURING SDN BHD  
No.22 & 23, Jalan Maju 1,  
Cemerlang Industrial Estate,  
81800 Ulu Tiram, Johor, Malaysia.  
Tel: 607-8675798 Fax: 607-8675799  
Website: www.koyachemicals.com Email: admin@koyachemicals.com

1.4 Emergency phone number : See Supplier

### 2 Hazards Identification

#### 2.1 Classification of the Substance or Mixture

##### 2.1.1 Classification according to Regulation (EC) No 1272/2008 (CLP)

Flammable liquids category 3	H226	Flammable liquid and vapour
Aspiration hazard category 1	H304	May be fatal if swallowed and enters airways
Hazardous to the aquatic environment - acute hazard category 1	H400	Very toxic to aquatic life
Hazardous to the aquatic environment - chronic hazard category 3	H412	Harmful to aquatic life with long lasting effects

#### 2.2 Label Element

##### Labelling according to Regulation (EC) No 1272/2008 (CPL)

Hazard pictograms :



Signal Word : Danger

Hazard Statements:

: H226	Flammable liquid and vapour
H304	May be fatal if swallowed and enters airways
H400	Very toxic to aquatic life
H412	Harmful to aquatic life with long lasting effects
Precautionary Statements: : P210	Keep away from heat/sparks/open flames/hot surfaces – No smoking.
P233	Keep container tightly closed
P240	Ground/ bond container and receiving equipments.
P241	Use explosion-proof electrical/ ventilating/ lighting/.../ equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P303+P361+P353	IF ON SKIN (or hair): Remove/ take off immediately all contaminated clothing .Rinse skin with water/ shower.

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P331	Do NOT induce vomiting.
P370+P378	In case of fire: Use suitable fire extinguisher media for extinction.
P391	Collect spillage
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/ container to appropriate waste site or reclaimer in accordance with local/ regional/ national/ international regulation.

### 2.3 Other Hazards

No information.

## 3 Composition & Information on Ingredients

### 3.1 Substance

Chemical Name	CAS Number	EC Index Number	Weight % Content
1,2,4-Trimethyl Benzene	95-63-6	601-043-00-3	2 - 9%
1,3,5-Trimethyl Benzene	108-67-8	601-025-00-5	0.6 - 3%
Ethylbenzene	100-41-4	601-023-00-4	≤0.3%

## 4 First Aid Measures

### 4.1 Description of First Aid Measures

#### General Notes

: No data available

#### If Inhaled

: Move to fresh air.

If rapid recovery does not occur, transport to nearest medical facility for additional treatment.

#### In Case of Skin Contact

: Remove contaminated clothing.

Flush exposed area with water and follow by washing with soap if available.

Seek medical attention in event of irritation.

#### In Case of Eyes 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.

Removal of contact lenses after an eye injury should only be undertaken by skilled personal.

#### If Ingestion

: Do not induce vomiting.

If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

Transport to nearest medical facility for additional treatment.

#### Self-Protection of the First Aider

: No data available

### 4.2 Most Important Symptoms and Effects, both Acute and Delayed

#### Risk

: No data available.

### 4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

#### Treatment

: For specialist advice physicians should contact the National Poison Centre.

#### Notes to physician

: No data available

## 5 Fire-Fighting Measures

### 5.1 Extinguishing Media

#### Suitable Extinguishing Media

: Regular foam

Dry chemical powder

Carbon dioxide

Water spray

#### Unsuitable Extinguishing Media

: Do not use water in a jet.

### 5.2 Special Hazards Arising from the Substance or Mixture

#### Hazardous Combustion Product

: No data available

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### 5.3 Advice for Firefighters

#### Special Protective Equipment

: Wear self-contained breathing apparatus.  
Wear suitable chemical protective clothing.

#### Further Information

: Keep containers/tanks cool with water spray. If tank, rail or tank truck is involved in a fire, isolate for 800 meters (1/2 mile) in all direction; also consider initial evacuation for 800 meters (1/2 mile) in all directions.

#### Hazchem code

: 3Y

## 6 Accidental Release Measures

### 6.1 Personal Precautions, Protective Equipment and Emergency Procedures

#### 6.1.1 For Non-Emergency Personnel

##### Protective Equipment

: Wear suitable protective equipment (See Section 8).

##### Emergency Procedures

: Evacuate the hazard area immediately.  
Avoid breathing vapors or mists.  
Keep away from heat and sources of ignition.

#### 6.1.2 For Emergency Responders

##### Protective Equipment

: Use solvent-resistant protective clothing.  
Use respirator with AX filter or self-contained breathing apparatus.  
Use butyl-rubber gloves.  
Use safety glasses with side-shield.  
Use safety shoes.

##### Emergency procedures

: Use grounded, explosion-proof equipment.  
Increase ventilation to area or move leaking container to a well-ventilated and secure area.  
Keep people away from and upwind of spill / leak.

### 6.2 Environmental Precautions

#### Environmental Precautions

: Attempt to stop leakage without personal risk.  
Should not be released into the environment.  
Prevent product from entering drains.  
Local authorities should be advised if significant spillage cannot be contained.  
Observe the risk of explosion.

### 6.3 Methods and Materials for Containment and Cleaning Up

#### 6.3.1 For Containment

##### Small Spillage and Leakage (<1 Drum)

: Stop the source of spill or leak.  
Use bunds to contain the spill.  
Cover the drain.

##### Large Spillage and Leakage (>1 Drum)

: Stop the source of spill or leak if possible.  
Use bunds or flood barriers to contain the spill.  
Cover the drain.

#### 6.3.2 For Cleaning Up

##### Small Spillage and Leakage (<1 Drum)

: Transfer by mechanical means to a labelled, 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.

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### Large Spillage and Leakage (>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.

### 6.3.3 Other Information

#### Additional Advice:

: Notify authorities if any exposure to the general public or the environment occurs or is likely to occur. Local authorities should be advised if significant spillages cannot be contained.

### 6.4 Reference to Other Sections

#### Section 8

: Personal protective equipment

#### Section 13

: Disposal

## 7 HANDLING AND STORAGE

### 7.1 Precautions for Safe Handling

#### Advice on Safe Handling

: Ensure adequate ventilation.  
Avoid inhaling vapours/mists.  
Avoid contact with skin, eyes and clothing.  
Wash hands before breaks and immediately after handling the product.  
When using do not eat, drink or smoke.  
Easy access to emergency shower and eye wash facility.

#### Advice on Protection against Fire and Explosion

: Remove ignition source.  
No smoking.  
Extinguish any naked flame.  
Avoid sparks.  
Avoid splash filling.  
Take precautionary measures against static discharges.  
Do not use compressed air for filling, discharging, or handling operations.

### 7.2 Conditions for Safe Storage, Including Any Incompatibilities

#### Requirements for Storage Areas and Containers

: Keep containers tightly closed in a cool, well-ventilated place.  
Keep in a dry place.  
Protect from sunlight.  
Keep product and empty container away from heat and sources of ignition.  
Locate bulk storage outdoors.  
Bulk storage tanks should be diked (bounded).

#### Suitable Storage Materials

#### Unsuitable Storage Materials

#### Advice on Common Storage

: Carbon steel, stainless steel, polyethylene, polypropylene, polyester, teflon  
: Natural rubber, butyl rubber, EPDM, polystyrene  
: Keep away from incompatible materials. (See Section 10)

### 7.3 Specific End Uses

#### Recommendations

: No data available



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### 8 Exposure Controls And Personal Protection

#### 8.1 Control Parameter

##### 8.1.1 Occupational Exposure Limits

Chemical Name	CAS No.	Control Parameters		Source
		ppm	mg/m <sup>3</sup>	
Naphthalene	91-20-3	10	52	ACGIH - TWA
		15	79	ACGIH - STEL
Trimethyl Benzene	-	25	123	ACGIH - TWA
Ethylbenzene	100-41-4	100	434	ACGIH - TWA
		125	543	ACGIH - STEL
		100	434	SG PEL - TWA
		125	543	SG PEL - STEL
Xylene, Mixed isomers	1330-20-7	100	434	ACGIH - TWA
		150	651	ACGIH - STEL

##### 8.1.2 Biological Exposure Limits

No data available

##### 8.1.3 Derived No Effect Levels

No data available

##### 8.1.4 Predicted No Effect Concentration

No data available

#### 8.2 Exposure Control

##### 8.2.1 Appropriate Engineering Controls Engineering Measures

: A system of local and /or general exhaust is recommended to keep employee exposures above the Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. The use of local exhaust ventilation is recommended to control emissions near the source.

##### 8.2.2 Personal Protective Equipment

###### Eye and Face Protection Skin and Body Protection

: Chemical splash goggles  
: Use protective clothing which is chemical resistant to this material.  
Safety shoes and boots should also be chemical resistant.

###### Hand Protection

: Protective gloves  
Always seek advice from glove suppliers.  
When prolonged or frequently repeated contact may occur, a glove with a protection class of five or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.

###### Respiratory Protection

: No data available.

###### Thermal Hazards

: Not applicable.

##### 8.2.3 Environment Exposure Controls

###### General Advice

: Attempt to stop leakage without personal risk.  
Should not be released into the environment.  
Prevent product from entering drains.  
Local authorities should be advised if significant spillages cannot be contained.  
Observe the risk of explosion.



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### 9 Physical And Chemical Properties

#### 9.1 Information on Basic physical and Chemical properties

Appearance	: Clear and colorless liquid
Odour	: White spirit odour
Odour Threshold	: No data available
pH	: No data available
Melting Point or Freezing Point	: < -20°C
Initial Boiling Point and Boiling Range	: 145 - 200°C
Flash Point	: 35°C (TCC)
Evaporation Rate	: 0.14, n-BuAc=1
Flammability (Solid,Gas)	: No data available
Lower/Upper Flammability or Explosive Limits	: 0.6% / 7%
Vapour Pressure	: 0.248 kPa at 20°C
Vapour Density	: > 1
Relative Density	: No data available
Solubility	: < 0.1 wt% in water
Partition Coefficient n-Octanol/Water	: Log Pow: 3.7 - 6.7
Auto-Ignition Temperature	: > 200°C
Decomposition Temperature	: No data available
Viscosity, Dynamic	: No data available
Viscosity, Kinematic	: 1.13 cSt at 25°C
Explosive Properties	: No data available
Oxidizing Properties	: No data available

#### 9.2 Other Information

Molecular Weight	: 140 g/mol
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### 10 STABILITY AND REACTIVITY

Reactivity	: No data available
Chemical Stability	: Stable under normal conditions of use.
Possibility of Hazardous Reactions	: Hazardous polymerization will not occur.
Condition to Avoid	: Heat,sparks,open flames,or other sources of ignition.
Incompatible Materials	: Strong oxidizers
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

#### 11.1 Information on Toxicology Effects

Acute Toxicity	: Oral	No data available
	: Inhalation	No data available
	: Dermal	No data available
Skin Corrosion/ Irritation	: Prolonged/ repeated contact may cause defatting of the skin which can lead to dermatitis.	
Serious Eye Damage/Irritation	: Irritating but will not injure eye tissue.	
Respiratory or Skin Sensitization	: No data available	
Germ Cell Mutagenicity	: No data available	
Carcinogenicity	: No data available	
Reproductive	: No data available	
STOT - Single Exposure	: No data available	
STOT - Repeated Exposure	: No data available	
Aspiration Hazard	: No data available	

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## 12 ECOLOGICAL INFORMATION

### 12.1 Toxicity

#### 12.1.1 Acute (Short-term) Toxicity

Fish : No data available  
Crustacean : No data available  
Algae/Aquatic Plants : No data available  
Others Organisms : No data available

#### 12.1.2 Chronic (Long-term) Toxicity

Fish : No data available  
Crustacean : No data available  
Algae/Aquatic Plants : No data available  
Others Organisms : No data available

### 12.2 Persistence and Degradability

Abiotic Degradation : No data available  
Physical-and Photo-Chemical Elimination : No data available  
Biodegradation : Readily biodegradable

### 12.3 Bioaccumulative Potential

Partition Coefficient : Log Pow :3.7 - 6.7  
n-Octanol/Water(log Kow)  
Bioconcentration Factor : No data available

### 12.4 Mobility in Soil

Partition Coefficient, Soil : No data available  
Organic Carbon/ Water (Koc)  
Known or Predicted Distribution to Environmental Compartments : No data available  
Surface Tension : No data available  
Adsorption/Desorption : No data available

### 12.5 Results of PBT and vPvB Assessment

PBT : Not a PBT substance  
vPvB : Not a vPvB substance

### 12.6 Other Adverse Effects

Environmental Adverse Effects : No data available

### 12.7 Addition Information

Additional Ecological Information : Discharge into environment must be avoided.

## 13 DISPOSAL CONSIDERATIONS

### 13.1 Waste Treatment Methods

**Material Disposal** : Recover or recycle if possible.  
Dispose as hazardous waste in compliance with local and national regulations.  
Do not dispose together with household waste.  
Do not dispose into the environment, in drains or in water courses.  
Waste product should not be allowed to contaminate soil or water.  
Waste codes/waste designations in accordance with,  
1.Environmental Quality Act 1974, Malaysia: SW 322 (Waste of non-halogenated organic solvents).  
2.Environmental Public Health Act, Singapore: Listed as Organic compounds not containing Halogen.



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**Container Disposal**

: Recover or recycle or reuse if possible.  
Dispose as hazardous waste in compliance with local and national regulations.  
Do not dispose together with household waste.  
Drain container thoroughly.  
After draining, vent in a safe place away from sparks and fire.  
Do not puncture, cut or weld unclean drums.  
Waste codes/waste designations in accordance with,  
1.Environmental Quality Act 1974, Malaysia :SW 409 (Disposed containers, bags or equipment contaminated with chemicals, pesticides, mineral oil or scheduled waste).  
2.Environmental Public Health Act, Singapore: Not listed.

**Waste Treatment Relevant Information**

: Contact a licensed professional waste disposal service to dispose of this material.

**Sewage Disposal Relevant Information**

: Do not release to sewers.

**Other Disposal Recommendations**

: Local regulations may be more stringent than regional or national requirements and must be complied with.

### 14 TRANSPORT INFORMATION

**14.1 UN Number**

Road(ADR) : 1300  
Rail (RID) : 1300  
Sea (IMDG) : 1300  
Air (IATA) : 1300

**14.2 UN Proper Shipping Name**

Road (ADR) : TURPENTINE SUBSTITUTE  
Rail (RID) : TURPENTINE SUBSTITUTE  
Sea (IMDG) : TURPENTINE SUBSTITUTE  
Air (IATA) : TURPENTINE SUBSTITUTE

**14.3 Transport Hazards Class**

Road (ADR) : 3  
Rail (RID) : 3  
Sea (IMDG) : 3  
Air (IATA) : 3

**14.4 Packing Group**

Road (ADR) : III  
Rail (RID) : III  
Sea (IMDG) : III  
Air (IATA) : III

**14.5 Environmental Hazardous**

Road (ADR) : No data available  
Rail (RID) : No data available  
Sea (IMDG) : Not a Marine Pollutant  
Air (IATA) : No data available





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### 14.6 Special Precaution for User

Road (ADR)	: Limited Quantities	: No data available
Rail (RID)	: Limited Quantities	: No data available
Sea (IMDG)	: Ems Number	: No data available
	Limited Quantities	: No data available
Air (IATA)	: Cargo only packing Instructions	: No data available
	Cargo only Maximum Qty/Pack	: No data available
	Passenger and Cargo Packing Instructions	: No data available
	Passenger and Cargo Maximum QTY/Pack	: No data available
	Passenger and Cargo Limited Quantity Packing Instructions	: No data available
	Passenger and Cargo Limited Maximum Qty/Pack	: No data available

### 14.7 Transport in Bulk According to Annex II of MARPOL 73/78 and IBC CODE

Pollution Category	: Y
Ship Type	: 2
Hazchem Code	: 3Y

## 15 REGULATORY INFORMATION

### 15.1 Safety, Health and Environmental Regulation/ Legislation Specific for the Substance or Mixture

EU Regulation and Legislation	: Control of Major Accident Hazards Involving Hazardous Substance, Directive 2012/18/EU, Soveso Directive P5c Flammable Liquids Lower-tier requirements : 5,000 tonnes Upper-tier requirements : 50,000 tonnes
Malaysia Regulation and Legislation	: Occupational Safety and Health Act, 1994 Environmental Quality Act, 1974
Singapore Regulation and Legislation	: Workplace Safety and Health Act The Environmental Protection and Management Act

### 15.2 Chemical Safety Assessment

No chemical Safety Assessment has been carried for this substance/mixture by the supplier.

## 16 OTHER INFORMATION

Issued Date	: 29.03.2024
Supplier Reference	: PCMJB/P3040/N/N/24S0038/21T0005J@K
References	: Guidance on The Compilation of Safety Data Sheets, Version 1.1, December 2011, European Chemical Agency Globally Harmonized System of Classification and Labelling of Chemicals (GHS), Third Edition, 2009, United Nation
Training Advice	: Provide adequate information, instruction and training for operator.
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