



# SAFETY DATA SHEET

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Revised edition no : 04

## P-503 OIL SPILL DISPERSANT

Effective Date: 20.11.2019

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

Chemical Name : Oil spill dispersant  
Type of product chemical family : solvent degreaser  
Use : Disperse Oil spill  
Producer : 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

Emergency phone nr : See producer

### 2 Hazards Identification

Flammable liquids Category 3  
Aspiration hazard Category 1  
Hazardous to the aquatic environment-chronic hazard Category 3

Hazard Pictograms:



Signal Word: Danger

Hazard Statements:

H226 Flammable liquid and vapour  
H304 May be fatal if swallowed and enters airways.  
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 equipment  
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.  
P331 Do NOT induce vomiting.  
P370+P378 In case if fire: Use Chemical foam/ dry chemical foam/ carbon dioxide/ water spray for extinction.  
P403+P235 Store in a well-ventilated place. Keep cool.  
P405 Store locked up.  
P501 Dispose of contents and container to appropriate waste site in accordance with local and national regulations.

### 3 Composition & Information on Ingredients

Hazardous ingredients : Hydrocarbons, liquid (Contains Hydrodesulfurized Heavy Naphtha (petroleum))  
CAS No. 64742-82-1

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### 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

: If material enters lungs, signs and symptoms may include coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath, and/or fever. Auditory system effects may include temporary hearing loss and/or ringing in the ears. Respiratory irritation signs and symptoms may include a temporary burning sensation of the nose and throat, coughing, and/or difficulty breathing. Defatting dermatitis signs and symptoms may include a burning sensation and/or a dried/cracked appearance. Skin irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blisters.

#### 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

: Carbon monoxide

#### 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

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### 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.

###### 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.

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### 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

: For containers,or container linings use mild steel,stainless steel.  
For container paints,use epoxy paint,zinc silicate paint.

#### Unsuitable Storage Materials

: Natural,butyl or nitrile rubbers.

#### Advice on Common Storage

: Keep away from incompatible materials.(See Section 10)

### 7.3 Specific End Uses

Recommendations : No data available

## 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>	
1,2,4-Trimethyl Benzene	95-63-6	25	-	ACGIH - TWA
		25	123	SG PEL - TWA
1,3,5-Trimethyl Benzene	108-67-8	25	-	ACGIH - TWA
		25	123	SG PEL - TWA
Ethylbenzene	100-41-4	20	-	ACGIH - TWA
		125	-	ACGIH - STEL
		100	434	SG PEL - TWA
		125	543	SG PEL - STEL

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### 8.1.2 Biological Exposure Limits

Chemical Name	CAS NO.	Samples	Determinants	Sampling Time	Biological Exposure Indices	Source
Ethylbenzene	100-41-4	Urine	Sum of mandelic acid and phenylglyoxylic acid in Creatinine	End of shift at end of work week	0.7 g/g	ACGIH

### 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

: Air-filtering respirators which suitable for organic gases and vapours [boiling point >65°C (149°F)].

#### 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.

## 9 Physical And Chemical Properties

### 9.1 Information on Basic physical and Chemical properties

Appearance	: Clear and colorless liquid
Odour	: Paraffinic
Odour Threshold	: No data available
pH	: No data available
Melting Point or Freezing Point	: No data available
Initial Boiling Point and Boiling Range	: 162 - 192°C

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<b>Flash Point</b>	: 41 - 42°C
<b>Evaporation Rate</b>	: 0.16, n-BuAc=1
<b>Flammability (Solid,Gas)</b>	: No data available
<b>Lower/Upper Flammability or Explosive Limits</b>	: 0.7%/ 6.5%
<b>Vapour Pressure</b>	: 110 Pa at 0°C 370 Pa at 20°C 1800 Pa at 50°C
<b>Vapour Density</b>	: No data available
<b>Relative Density</b>	: 0.79 at 15°C
<b>Solubility</b>	: Insoluble in water Miscible with aliphatic and aromatic solvents
<b>Partition Coefficient n-Octanol/Water</b>	: Log Pow:3.7 - 6.7
<b>Auto-Ignition Temperature</b>	: 296°C
<b>Decomposition Temperature</b>	: No data available
<b>Viscosity, Dynamic</b>	: No data available
<b>Viscosity, Kinematic</b>	: 1.08 mm <sup>2</sup> / s at 25°C
<b>Explosive Properties</b>	: No data available
<b>Oxidizing Properties</b>	: No data available

### 9.2 Other Information

**Molecular Weigh** : 140 g/mol

## 10 STABILITY AND REACTIVITY

<b>Reactivity</b>	: No data available
<b>Chemical Stability</b>	: Stable under normal conditions of use.
<b>Possibility of Hazardous Reactions condition to Avoid</b>	: No data available
<b>Incompatible Materials</b>	: Heat,sparks,open flames,or other sources of ignition.
<b>Hazardous Decomposition Products</b>	: Strong oxidizers 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

<b>Acute Toxicity</b>	: Ora : Inhalation : Dermal	LD <sub>50</sub> rat:>5000 mg/kg Low toxicity Low toxicity
<b>Skin Corrosion/ Irritation</b>	: Not irritating. Prolonged/ repeated contact may cause defatting of the skin which can lead to dermatitis.	
<b>Serious Eye Damage/Irritation</b>	: Not Irritating	
<b>Respiratory or Skin Sensitization</b>	: Not a skin sensitizer	
<b>Germ Cell Mutagenicity</b>	: Not mutagenic	
<b>Carcinogenicity</b>	: Not expected to be carcinogenic,tumours produced in animals are not considered relevant to humans.	
<b>Reproductive</b>	: Do not impair fertility. Not a developmental toxicant.	
<b>STOT - Single Exposure</b>	: May cause drowsiness or dizziness	
<b>STOT - Repeated Exposure</b>	: Kidney:caused kidney effects in male rats whichh are not considered relevant to humans Central nervous system:repeated exposure affects the nervous system	
<b>Aspiration Hazard</b>	: Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.	

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### 12 ECOLOGICAL INFORMATION

#### 12.1 Toxicity

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

Fish	: LL/EL/IL <sub>50</sub> : 1-10 mg/L
Crustacean	: LL/EL/IL <sub>50</sub> : 1-10 mg/L
Algae/Aquatic Plants	: LL/EL/IL <sub>50</sub> : 1-10 mg/L
Others Organisms	: LL/EL/IL <sub>50</sub> : >100 mg/L

##### 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	: Oxidizers rapidly by photo-chemical reactions in air.
Biodegradation	: Readily biodegradable

#### 12.3 Bioaccumulative Potential

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

#### 12.4 Mobility in Soil

Partition Coefficient, Soil Organic Carbon/ Water (Koc)	: No data available
Known or Predicted Distribution to Environmental Compartments	: Adsorbed to soil and has low mobility
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
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#### 12.7 Addition Information

Additional Ecological Information	: Discharge into environment must be avoided.
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### 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).
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2.Environmental Public Health Act,Singapore:Listed as Organic compounds not containing Halogen.

### 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

**Sewage Disposal Relevant Information**

: Contact licensed professional waste disposal service to dispose of this material.  
: Do not release to sewers.

**Other Recommendations**

**Disposal**

: 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 Transport Hazards Class

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

### 14.3 Packing Group

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

### 14.4 Environmental Hazardous

Road (ADR) : Applicable  
Rail (RID) : Applicable  
Sea (IMDG) : Yes,Marine Pollutant  
Air (IATA) : Applicable

### 14.5 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

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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

### 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

#### Chemical Inventory Status

**EINECS (EU)** : Listed

**TSCA (US)** : Listed

**DSL (Canada)** : Listed

**IECSC (China)** : Listed

**KECI (Korea)** : Listed

#### 15.2 Chemical Safety Assessment

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

### 16 OTHER INFORMATION

**Issued Date** : 20.09.2019

**Abbreviations** : LD<sub>50</sub> Median lethal dose

LL/EL/IL<sub>50</sub> Lethal loading/ Effect loading/ Inhibition loading Fifty

**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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Training Advice : Provide adequate information, instruction and training for operator.

All recommendations for the use of our products, whether given by us in writing, orally, or to be implied from data or test results obtained by us, are based on the current state of our knowledge at the time such recommendations are made. When additional information is obtained, these recommendations may be updated. They may also be influenced by circumstances outside our control. Notwithstanding such recommendations, the user is responsible to determine that the product as supplied by us, is suitable for the process or purpose he intends to use it. The user of the product is solely for compliance with all laws and regulation applying to the use of the product. Since we cannot control the application, use or processing of the products, we do not accept responsibility therefore. The user shall ensure that the intended use of the products will not infringe in any party's intellectual property rights.

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