

# **MATERIAL SAFETY DATA SHEET**

SECTION 1

# PRODUCT AND COMPANY IDENTIFICATION

PRODUCT Product Name: MOE Product Description: Product Code: Intended Use:	ILTAC 325 NC Hydrocarbons and Additives 201560404010, 611160 Gear oil	3		
COMPANY IDENTIFICATION				
Manufacturer/Supplier		a Pacific Pt	e. Ltd (Company No.: 19680	0312N)
	1 Harbour Front Place #06-00 Harbour Front Tower One	098633	Singapore	
24 Hour Health Emergen Supplier General Contac			3-4229/+1 703-527-3887 8000/86-21-24076000	
Supplier:	146 - 148 Khanh Hoi	EQUATOR COMPANY LIMITED 146 - 148 Khanh Hoi Street Ward 6, District 4, Ho Chi Minh City		
Supplier General Contact		+84 8 3940	6411	
Supplier:	<b>Nam Giang Commer</b> 202 Hoang Van Thu Ward 9, Phu Nhuan I Ho Chi Minh City	Street		
Supplier General Contact		+84 28 7302	24500	
Supplier:	53 Hoang Quoc Viet Nghia Do Ward, Cau	PAN International Petroleum Joint Stock Company 53 Hoang Quoc Viet street Nghia Do Ward, Cau Giay District Hanoi Vietnam		
Supplier General Contact		+84 24 3212	3939	

**SECTION 2** 

# HAZARDS IDENTIFICATION

This material is not hazardous according to regulatory guidelines (see (M)SDS Section 15).

# Other hazard information:

# PHYSICAL / CHEMICAL HAZARDS

No significant hazards.



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### HEALTH HAZARDS

High-pressure injection under skin may cause serious damage. Excessive exposure may result in eye, skin, or respiratory irritation.

### ENVIRONMENTAL HAZARDS

No significant hazards.

**NOTE:** This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

### SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

This material is defined as a mixture.

#### Hazardous Substance(s) or Complex Substance(s) required for disclosure

Name	CAS#	Concentration*	GHS Hazard Codes
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT	64742-47-8	10 - < 20%	H227, H304
HYDROTREATED MIDDLE DISTILLATE (PETROLEUM)	64742-46-7	5 - < 10%	H304
OXIDIZED ASPHALT (PETROLEUM)	64742-93-4	30 - < 40%	None
ZINC NEODECANOATE	27253-29-8	1 - < 5%	H412

\* All concentrations are percent by weight unless material is a gas. Gas concentrations are in percent by volume.

### FIRST AID MEASURES

## INHALATION

**SECTION 4** 

Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek if breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.

# SKIN CONTACT

Wash contact areas with soap and water. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

# EYE CONTACT

Flush thoroughly with water. If irritation occurs, get medical assistance.

### INGESTION

First aid is normally not required. Seek medical attention if discomfort occurs.

### NOTE TO PHYSICIAN

None

# **SECTION 5**

### FIRE FIGHTING MEASURES



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#### EXTINGUISHING MEDIA

**Appropriate Extinguishing Media:** Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

Inappropriate Extinguishing Media: Straight Streams of Water

# FIRE FIGHTING

**Fire Fighting Instructions:** Evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

Hazardous Combustion Products: Aldehydes, Hydrogen sulfide, Incomplete combustion products, Oxides of carbon, Smoke, Fume, Sulfur oxides

### FLAMMABILITY PROPERTIES

Flash Point [Method]: >95°C (203°F) [ASTM D-92] Flammable Limits (Approximate volume % in air): LEL: N/D UEL: N/D Autoignition Temperature: N/D

**SECTION 6** 

# ACCIDENTAL RELEASE MEASURES

#### NOTIFICATION PROCEDURES

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

### **PROTECTIVE MEASURES**

Avoid contact with spilled material. See Section 5 for fire fighting information. See the Hazard Identification Section for Significant Hazards. See Section 4 for First Aid Advice. See Section 8 for advice on the minimum requirements for personal protective equipment. Additional protective measures may be necessary, depending on the specific circumstances and/or the expert judgment of the emergency responders.

### SPILL MANAGEMENT

Land Spill: Stop leak if you can do it without risk. Recover by pumping or with suitable absorbent.

**Water Spill:** Stop leak if you can do it without risk. Confine the spill immediately with booms. Warn other shipping. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

### **ENVIRONMENTAL PRECAUTIONS**

Large Spills: Dike far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.



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# **SECTION 7**

# HANDLING AND STORAGE

### HANDLING

Hydrogen sulfide (H2S) may be given off when this material is heated. Do not depend on sense of smell for warning. Prevent small spills and leakage to avoid slip hazard. Material can accumulate static charges which may cause an electrical spark (ignition source). When the material is handled in bulk, an electrical spark could ignite any flammable vapors from liquids or residues that may be present (e.g., during switch-loading operations). Use proper bonding and/or ground procedures. However, bonding and grounds may not eliminate the hazard from static accumulation. Consult local applicable standards for guidance. Additional references include American Petroleum Institute 2003 (Protection Against Ignitions Arising out of Static, Lightning and Stray Currents) or National Fire Protection Agency 77 (Recommended Practice on Static Electricity) or CENELEC CLC/TR 50404 (Electrostatics - Code of practice for the avoidance of hazards due to static electricity).

Static Accumulator: This material is a static accumulator.

### STORAGE

The type of container used to store the material may affect static accumulation and dissipation. Do not store in open or unlabelled containers. Keep away from incompatible materials.

# SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

### **EXPOSURE LIMIT VALUES**

### Exposure limits/standards (Note: Exposure limits are not additive)

Substance Name	Form	rm Limit / Standard		NOTE	Source	Year	
HYDROTREATED MIDDLE DISTILLATE (PETROLEUM)	Mist.	STEL	10 mg/m3			Vietnam OELs	2019
HYDROTREATED MIDDLE DISTILLATE (PETROLEUM)	Mist.	TWA	5 mg/m3			Vietnam OELs	2019
HYDROTREATED MIDDLE DISTILLATE (PETROLEUM)	Inhalable fraction.	TWA	5 mg/m3			ACGIH	2019

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

# ENGINEERING CONTROLS

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider:

No special requirements under ordinary conditions of use and with adequate ventilation.

### PERSONAL PROTECTION

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

**Respiratory Protection:** If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator



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selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include:

No special requirements under ordinary conditions of use and with adequate ventilation. Particulate

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapor warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

**Hand Protection:** Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include:

No protection is ordinarily required under normal conditions of use. Nitrile, Viton

Eye Protection: If contact is likely, safety glasses with side shields are recommended.

**Skin and Body Protection:** Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include:

No skin protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.

**Specific Hygiene Measures:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

### **ENVIRONMENTAL CONTROLS**

Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions.

# SECTION 9

# PHYSICAL AND CHEMICAL PROPERTIES

Note: Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications. Contact the Supplier for additional information.

### GENERAL INFORMATION

Physical State:LiquidForm:Semi-fluidColor:BlackOdor:CharacteristicOdor Threshold:N/D

### IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION

Relative Density (at 15 °C): 0.96Flammability (Solid, Gas): N/AFlash Point [Method]: >95°C (203°F) [ASTM D-92]Flammable Limits (Approximate volume % in air): LEL: N/DUEL: N/DAutoignition Temperature: N/D



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Boiling Point / Range:> 174°C (345°F)Decomposition Temperature:N/DVapor Density (Air = 1):> 2 at 101 kPaVapor Pressure:[N/D at 20 °C]Evaporation Rate (n-butyl acetate = 1):N/DpH:N/ALog Pow (n-Octanol/Water Partition Coefficient):> 3.5Solubility in Water:SlightViscosity:1300 cSt(1300 mm2/sec) at 40 °COxidizing Properties:See Hazards Identification Section.

### **OTHER INFORMATION**

Freezing Point: N/D Melting Point: N/A

### **SECTION 10**

### STABILITY AND REACTIVITY

**STABILITY:** Material is stable under normal conditions.

**CONDITIONS TO AVOID:** Excessive heat. High energy sources of ignition.

MATERIALS TO AVOID: Strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS: Material does not decompose at ambient temperatures.

**POSSIBILITY OF HAZARDOUS REACTIONS:** Hazardous polymerization will not occur.

**SECTION 11** 

# TOXICOLOGICAL INFORMATION

# INFORMATION ON TOXICOLOGICAL EFFECTS

Hazard Class	Conclusion / Remarks		
Inhalation			
Acute Toxicity: No end point data for material.	Minimally Toxic. Based on assessment of the components.		
Irritation: No end point data for material.	Elevated temperatures or mechanical action may form vapors, mist, or fumes which may be irritating to the eyes, nose, throat, or lungs.		
Ingestion			
Acute Toxicity: No end point data for material.	Minimally Toxic. Based on assessment of the components.		
Skin			
Acute Toxicity: No end point data for material.	Minimally Toxic. Based on assessment of the components.		
Skin Corrosion/Irritation (Rabbit): Data available.	Negligible irritation to skin at ambient temperatures. Based on test data for structurally similar materials. Test(s) equivalent or similar to OECD Guideline 404		
Eye			
Serious Eye Damage/Irritation (Rabbit): Data available.	May cause mild, short-lasting discomfort to eyes. Based on test data for structurally similar materials. Test(s) equivalent or similar to OECD Guideline 405		
Sensitization			



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Respiratory Sensitization: No end point data for material.	Not expected to be a respiratory sensitizer.			
Skin Sensitization: No end point data for material.	Not expected to be a skin sensitizer. Based on assessment of the components.			
Aspiration: Data available.	Not expected to be an aspiration hazard. Based on physico- chemical properties of the material.			
Germ Cell Mutagenicity: No end point data for material.	Not expected to be a germ cell mutagen. Based on assessment of the components.			
Carcinogenicity: No end point data for material.	Not expected to cause cancer. Based on assessment of the components.			
Reproductive Toxicity: No end point data for material.	Not expected to be a reproductive toxicant. Based on assessment of the components.			
Lactation: No end point data for material.	Not expected to cause harm to breast-fed children.			
Specific Target Organ Toxicity (STOT)				
Single Exposure: No end point data for material.	Not expected to cause organ damage from a single exposure.			
Repeated Exposure: No end point data for material.	Not expected to cause organ damage from prolonged or repeated exposure. Based on assessment of the components.			

# OTHER INFORMATION

### For the product itself:

Repeated and/or prolonged exposure may cause irritation to the skin, eyes, or respiratory tract. **Contains:** 

Asphalt (bitumen): May contain low levels of polycyclic aromatic compounds (PACs), some of which are suspected of causing cancer under conditions of poor industrial hygiene and prolonged repeated contact. These PACs may also be inhaled. Inhalation studies at high concentrations of fumes resulted in bronchitis, pneumonitis, fibrosis and cell damage. Avoid contact with the asphalt emissions. Base oil severely refined: Not carcinogenic in animal studies. Representative material passes IP-346, Modified Ames test, and/or other screening tests. Dermal and inhalation studies showed minimal effects; lung non-specific infiltration of immune cells, oil deposition and minimal granuloma formation. Not sensitizing in test animals.

# IARC Classification:

# The following ingredients are cited on the lists below:

Chemical Name	CAS Number	List Citations
OXIDIZED ASPHALT	64742-93-4	2, 3
(PETROLEUM)		

--REGULATORY LISTS SEARCHED--

1 = IARC 1

2 = IARC 2A 3 = IARC 2B

### **SECTION 12**

# **ECOLOGICAL INFORMATION**

The information given is based on data for the material, components of the material, or for similar materials, through the application of bridging principals.

# ECOTOXICITY

Material -- Not expected to be harmful to aquatic organisms.



### MOBILITY

More volatile component -- Highly volatile, will partition rapidly to air. Not expected to partition to sediment and wastewater solids.

High molecular wt. component -- Low solubility and floats and is expected to migrate from water to the land. Expected to partition to sediment and wastewater solids.

# PERSISTENCE AND DEGRADABILITY

### **Biodegradation:**

Low molecular wt. component -- Expected to be inherently biodegradable

High molecular wt. component -- Expected to be persistent.

# Atmospheric Oxidation:

More volatile component -- Expected to degrade rapidly in air

# **BIOACCUMULATION POTENTIAL**

Majority of components -- Has the potential to bioaccumulate, however metabolism or physical properties may reduce the bioconcentration or limit bioavailability.

### SECTION 13 DISPOSAL CONSIDERATIONS

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

### **DISPOSAL RECOMMENDATIONS**

Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products. Protect the environment. Dispose of used oil at designated sites. Minimize skin contact. Do not mix used oils with solvents, brake fluids or coolants.

**Empty Container Warning** Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

# SECTION 14 TRANSPORT INFORMATION

LAND : Not Regulated for Land Transport

SEA (IMDG): Not Regulated for Sea Transport according to IMDG-Code

Marine Pollutant: No

**AIR (IATA):** Not Regulated for Air Transport



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### **SECTION 15**

### **REGULATORY INFORMATION**

This material is not considered hazardous according to the Law on Chemicals.

### **REGULATORY STATUS AND APPLICABLE LAWS AND REGULATIONS**

Listed or exempt from listing/notification on the following chemical inventories (May contain substance(s) subject to notification to the EPA Active TSCA inventory prior to import to USA): AIIC, DSL, ENCS, IECSC, ISHL, KECI, PICCS, TCSI, TSCA

# **SECTION 16**

# OTHER INFORMATION

### N/D = Not determined, N/A = Not applicable

KEY TO THE H-CODES CONTAINED IN SECTION 3 OF THIS DOCUMENT (for information only):

H227: Combustible liquid; Flammable Liquid, Cat 4

H304: May be fatal if swallowed and enters airways; Aspiration, Cat 1

H412: Harmful to aquatic life with long lasting effects; Chronic Env Tox, Cat 3

# THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:

Composition: Component Table information was modified. Hazard Identification: AP - Hazards Statement - GHS information was added. Hazard Identification: AP - Hazards Statement - GHS information was deleted. Hazard Identification: Physical/Chemical Hazard information was added. Hazard Identification: Physical/Chemical Hazard information was deleted. Section 08: Exposure Limits Table information was modified. Section 11: Chronic Tox - Component information was modified. Section 11: Dermal Irritation Test Data information was modified. Section 11: Eye Irritation Test Data information was modified. Section 11: Eve Irritation Test Guideline information was added. Section 11: Skin Irritation Conclusion information was modified. Section 11: Skin Irritation Test Guideline information was added. Section 11: Tox List Cited Table information was added. Section 15: National Chemical Inventory Listing information was modified. Section 15: Taiwan Hazard Statement information was added. Section 15: Taiwan Hazard Statement information was deleted. Section 16: HCode Key information was modified.

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# DGN: 7079152XVN (1012316)

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