133 Cecil Street # 12-03 Keck Seng Tower, Singapore 069535, Republic Of Singapore **Telp.** +65 6227 6365 - **Fax.** +65 6225 6286

www.chemtradeasia.com



MATERIAL SAFETY DATA SHEET USED ENGINE OIL

Section 1: Product Identification

Chemical : Used Engine Oil

Chemical Formula : NÁ

Company Identification : Tradeasia International Pte Limited

133 Cecil Street # 12-03 Keck Seng Tower, Singapore

Tel: +65-6227 6365

Fax: +65-6225 6286

Email: contact@chemtradeasia.com

Section 2: Composition and Information on Ingredients

Ingredient CAS No. Percent Hazardous

Lubricating oils, NA 80%-100% Yes

used

Section 3: Hazards Identification

Emergency Overview

PHYSICAL HAZARDS

Combustible liquid.

HEALTH HAZARDS

May be harmful if inhaled.

May be harmful if absorbed through skin.

May be harmful or fatal if swallowed.

May irritate the respiratory tract (nose, throat, and lungs), eyes, and skin.

Suspect cancer hazard. Contains material which can cause cancer. Risk of cancer depends on duration and level of exposure.

Contains material which can cause birth defects.

Contains material which can cause central nervous system damage.

ENVIRONMENTAL HAZARDS

Product may be toxic to fish, plants, wildlife, and/or domestic animals.

133 Cecil Street # 12-03 Keck Seng Tower, Singapore 069535, Republic Of Singapore

Telp. +65 6227 6365 - Fax. +65 6225 6286

www.chemtradeasia.com



POTENTIAL HEALTH EFFECTS

Effects may vary depending on material composition. Typical effects may include:

INHALATION (BREATHING): High concentrations of vapor or mist may be harmful if inhaled. High concentrations of vapor or mist may irritate the respiratory tract (nose, throat, and lungs). High concentrations of vapor or mist may cause nausea, vomiting, headaches, dizziness, loss of coordination, numbness, and other central nervous system effects. Massive acute overexposure may cause rapid central nervous system depression, sudden collapse, coma, and/or death.

EYES : May cause irritation.

:May cause irritation. Product may be absorbed through the skin and cause harm as noted under INHALATION (BREATHING).

INGESTION (SWALLOWING):May be harmful or fatal if swallowed. May cause throat irritation, nausea, vomiting, and central nervous system effects as noted under INHALATION (BREATHING). Breathing product into the lungs during ingestion or vomiting may cause lung injury and possible death.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Individuals with pre-existing cardiovascular, liver, kidney, respiratory tract (nose, throat, and lungs), central nervous system, eye, and/or skin disorders may have increased susceptibility to the effects of exposure.

CHRONIC :Prolonged or repeated inhalation may cause oil pneumonia, lung tissue inflammation, fibrous tissue formation, and/or toxic effects as noted under INHALATION (BREATHING). Prolonged or repeated eye contact may cause inflammation of the membrane lining the eyelids and covering the eyeball (conjunctivitis). Prolonged or repeated skin contact may cause drying, cracking, redness, itching, and/or swelling (dermatitis).

CANCER INFORMATION: This product contains mineral oils, untreated or mildly treated, which can cause cancer. This product may contain hydrocarbon and chlorinated solvents; metals, and polynuclear aromatics which can cause cancer. Risk of cancer depends on duration and level of exposure. For more information, see SECTION 11: CARCINOGENICITY

133 Cecil Street # 12-03 Keck Seng Tower, Singapore 069535, Republic Of Singapore

Telp. +65 6227 6365 - Fax. +65 6225 6286

www.chemtradeasia.com



Product may be toxic to fish, plants, wildlife, and/or domestic animals.

Also see **SECTION 12: ECOLOGICAL INFORMATION**.

Section 4: First Aid Measures

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing

(BREATHING) is difficult, give oxygen. Oxygen should only be administered by qualified

personnel. Someone should stay with victim. Get medical attention if

breathing difficulty persists.

EYES: If irritation or redness from exposure to vapor develops, move away from

exposure into fresh air. Upon contact, immediately flush eyes with plenty of

lukewarm water, holding eyelids apart, for 15 minutes. Get medical

attention.

SKIN: Remove affected clothing and shoes. Wash skin thoroughly with soap and

water. Get medical attention if irritation or pain develops or persists.

INGESTION: Do NOT induce vomiting. Immediately get medical attention.

(SWALLOWING) If spontaneous vomiting occurs, keep head below hips to avoid breathing

the product into the lungs. Never give anything to an unconscious person

by mouth.

NOTE TO Treat symptomatically and supportively. Treatment may vary with condition

PHYSICIANS: of victim and specifics of incident. Call 1-800-468-1760 for additional

information.

Section 5: Fire Fighting Measures

FLASH POINT: >200 · F (93 · C) (minimum) Pensky-Martens Closed Cup

FLAMMABLE LIMITS IN AIR: Not available.

AUTOIGNITION

TEMPERATURE: Not available.

133 Cecil Street # 12-03 Keck Seng Tower, Singapore 069535, Republic Of Singapore

Telp. +65 6227 6365 - **Fax**. +65 6225 6286

www.chemtradeasia.com



HAZARDOUS Decomposition and combustion materials may be toxic. Burning may produce phosgene gas, nitrogen oxides, carbon monoxide, and unidentified organic.

PRODUCTS: compounds

CONDITIONS OF

FLAMMABILITY: Heat, sparks, or flame. Product may burn but does not ignite readily.

EXTINGUISHING MEDIA: Use carbon dioxide, regular foam, dry chemical, water spray, or water fog.

NFPA 704

HAZARD This information is intended solely for the use by individuals

IDENTIFICATION: trained in this system.

HEALTH HAZARD (RED)

SPECIFIC HAZARD (WHITE)

SPECIFIC (WHITE)

FIRE FIGHTING Keep storage containers cool with water spray.

INSTRUCTIONS:

A positive-pressure, self-contained breathing apparatus

(SCBA) and full-body protective equipment are required for

fire emergencies.

FIRE AND Heated containers may rupture. "Empty" containers may

EXPLOSION HAZARDS: retain residue and can be dangerous. Product is not sensitive

to mechanical impact. Product may be sensitive to static

discharge, which could result in fire or explosion.

Section 6: Accidental Release Measures

Remove all ignition sources. Do not touch or walk through spilled product. Stop leak if you can do it without risk. Wear protective equipment and provide engineering controls as specified in **SECTION 8**: **EXPOSURE CONTROLS/PERSONAL PROTECTION**. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Ventilate area and avoid breathing vapor or mist. A vapor

133 Cecil Street # 12-03 Keck Seng Tower, Singapore 069535,

Republic Of Singapore

Telp. +65 6227 6365 - Fax. +65 6225 6286

www.chemtradeasia.com



suppressing foam may be used to reduce vapors. Contain spill away from surface waters and sewers. Contain spill as a liquid for possible recovery, or sorb with compatible sorbent material and shovel with a clean, sparkproof tool into a sealable container for disposal.

Additionally, for large spills: Water spray may reduce vapor, but may not prevent ignition in closed spaces. Dike far ahead of liquid spill for collection and later disposal.

SECTION 7: HANDLING AND STORAGE

HANDLING:

Keep away from heat, sparks, or flame. Where flammable mixtures may be present, equipment safe for such locations should be used. Use clean, sparkproof tools and explosion-proof equipment. When transferring product, storage tanks, tanker trucks, and rail tank cars should be grounded and bonded. Do not breathe vapor or mist. Use in a well ventilated area. Avoid contact with eyes, skin, clothing, and shoes. Do not smoke while using this product.

SHIPPING AND

STORING:

Keep container tightly closed when not in use and during transport. Do not pressurize, cut, weld, braze, solder, drill, or grind containers. Keep containers away from heat, flame, sparks, static electricity, or other sources of ignition. Empty product containers may retain product residue and can be dangerous. See SECTION 14: TRANSPORT INFORMATION for Packing Group information.

Section 8: Exposure Controls/Personal Protection

ENGINEERING CONTROLS:

Use general ventilation, process enclosures, local exhaust ventilation, or other engineering controls to control air-borne levels. Where explosive mixtures may be present, equipment safe for such locations should be used.

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION: A respiratory protection program which meets USA's OSHA General Industry Standard 29 CFR 1910.134 or Canada's CSA Standard Z94.4-M1982 requirements must be followed whenever workplace conditions warrant a respirator's use. Consult a qualified Industrial Hygienist or Safety Professional for respirator selection guidance.

133 Cecil Street # 12-03 Keck Seng Tower, Singapore 069535, Republic Of Singapore

Telp. +65 6227 6365 - **Fax**. +65 6225 6286

www.chemtradeasia.com



EYE PROTECTION: Wearing chemical goggles is recommended. Contact lens may be worn with eye protection.

SKIN PROTECTION: Where prolonged or repeated skin contact is likely, wear neoprene, nitrile (4 mil minimum), PVC (polyvinyl chloride), or equivalent protective gloves; wearing natural rubber or equivalent gloves is not recommended. When product is heated and skin contact is likely, wear heat-insulating gloves, boots, and other protective clothing.

To avoid prolonged or repeated contact with product where spills and splashes are likely, wear appropriate chemical-resistant faceshield, boots, apron, whole body suits, or other protective clothing.

PERSONAL HYGIENE: Wash thoroughly with soap and water after handling product and before eating, drinking, or using tobacco products. Clean affected clothing, shoes, and protective equipment before reuse. Discard affected clothing, shoes, leather articles, such as shoes, saturated with the product.

OTHER PROTECTIVE EQUIPMENT: Where spills and splashes are likely, facilities storing or using this product should be equipped with an emergency eyewash and shower, both equipped with clean water, in the immediate work area.

Section 9: Physical And Chemical Properties

PHYSICAL STATE,

APPEARANCE, AND ODOR: Liquid, black and viscous (thick), petroleum odor.

ODOR THRESHOLD: Not available.

MOLECULAR WEIGHT: Not applicable.

SPECIFIC GRAVITY: 0.8 to 1.0 at 60 · F (15.6 · C) (water = 1)

DENSITY: 6.7 to 8.3 LB/US gal (800 to 1000 g/l) (approximately)

VAPOR DENSITY: greater than 1 (air = 1) (based on kerosene)

VAPOR PRESSURE: Not available.

BOILING POINT: Not available.

FREEZING/MELTING POINT: Not available.

pH: Not applicable.

133 Cecil Street # 12-03 Keck Seng Tower, Singapore 069535,

Republic Of Singapore

Telp. +65 6227 6365 - Fax. +65 6225 6286

www.chemtradeasia.com



EVAPORATION RATE: less than 1 (butyl acetate = 1)

SOLUBILITY IN WATER: Slight.

FLASH POINT:

>200 · F (93 · C) (minimum) Pensky-Martens Closed Cup

FLAMMABLE LIMITS IN AIR; Not available.

AUTOIGNITION

TEMPERATURE: Not available.

Section 10: Stability And Reactivity

Stable under normal temperatures and pressures. Avoid heat, sparks, or

flame.

INCOMPATIBILITY: Avoid acids, alkalies, oxidizing agents, reducing agents, reactive

halogens, or reactive metals.

REACTIVITY: Polymerization is not known to occur under normal temperatures and

pressures. Not reactive with water.

HAZARDOUS

DECOMPOSITION None under normal temperatures and pressures. Also see

PRODUCTS: SECTION 5: HAZARDOUS COMBUSTION PRODUCTS.

Section 11: Toxicological Information

SENSITIZATION: Based on best current information, there may be known human

sensitization associated with this product.

MUTAGENICITY: Based on best current information, there may be mutagenicity

associated with this product.

CARCINOGENICITY: Mineral oils, untreated or mildly treated are listed by IARC as a known

carcinogen. Mineral oils, untreated or mildly treated are classified by NTP as

having limited evidence of carcinogenicity in humans or sufficient evidence of

carcinogenicity in experimental animals.

There may be hydrocarbon and chlorinated solvents; metals, and polynuclear

aromatics present in this product which are listed by OSHA as known

133 Cecil Street # 12-03 Keck Seng Tower, Singapore 069535,

Republic Of Singapore

Telp. +65 6227 6365 - **Fax**. +65 6225 6286

www.chemtradeasia.com



carcinogens. There may be hydrocarbon and chlorinated solvents; metals, and polynuclear aromatics present in this product which are listed by IARC as known, probable, or possible carcinogens. There may be hydrocarbon and chlorinated solvents; metals, and polynuclear aromatics present in this product which are classified by NTP as known carcinogens or as having limited evidence of carcinogenicity in humans or sufficient evidence of carcinogenicity in experimental animals. There may be hydrocarbon and chlorinated solvents; metals, and polynuclear aromatics present in this product which are recognized by ACGIH as confirmed or suspected human carcinogens.

Also see SECTION 3: CANCER INFORMATION.

REPRODUCTIVE

Based on best current information, there may be reproductive toxicity associated

TOXICITY: with this product.

TERATOGENICITY: Based on best current information, there may be teratogenicity associated with this

product.

TOXICOLOGICALLY

SYNERGISTIC

Based on best current information, there may be toxicologically synergistic

PRODUCT(S): associated with this product.

Section 12: Ecological Information

ECOTOXICITY: Not available.

OCTANOL/WATER

PARTITION COEFFICIENT: Not available.

VOLATILE ORGANIC Not available.

COMPOUNDS: As per 40 CFR Part 51.100(s).

Section 13: Disposal Considerations

Dispose in accordance with federal, state, provincial, and local regulations. Regulations may also apply to empty containers. The responsibility for proper waste disposal lies with the owner of the waste. Contact Safety-Kleen regarding proper recycling or disposal.

133 Cecil Street # 12-03 Keck Seng Tower, Singapore 069535, Republic Of Singapore **Telp.** +65 6227 6365 - **Fax.** +65 6225 6286

www.chemtradeasia.com



Section 14: Transport Information

DOT: Not regulated.

TDG: Not regulated.

EMERGENCY RESPONSE Not applicable.

GUIDE NUMBER: Reference North American Emergency Response Guidebook

Section 15: Regulatory Information

USA REGULATIONS Based on the ingredient(s) listed in SECTION 2, this product does not contain

SARA SECTIONS any "extremely hazardous substances" listed pursuant to Title III of the

302 AND 304: Superfund Amendments and Reauthorization Act of 1986 (SARA) Section 302 or

Section 304 as identified in 40 CFR Part 355, Appendix A and B.

SARA SECTIONS This product poses the following physical and health hazards as

311 AND 312: defined in 40 CFR Part 370 and is subject to the requirements of sections 311 and 312.

of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA):

Immediate (Acute) Health Hazard

Delayed (Chronic) Health Hazard

SARA SECTION This product may contain "toxic" chemicals subject to the requirements of section

313 of Title III of the Superfund Amendments and Reauthorization Act of 1986

(SARA) and 40 CFR Part 372.

CERCLA: This product may contain "hazardous substances" listed pursuant to Comprehensive

Environmental Response, Compensation and Liability Act of 1980 (CERCLA) in 40

CFR Part 302, Table 302.4.

TSCA: Not available.

CALIFORNIA: This product is not for sale or use in the State of California.

CANADIAN REGULATIONS

WHMIS: Not regulated

133 Cecil Street # 12-03 Keck Seng Tower, Singapore 069535, Republic Of Singapore **Telp.** +65 6227 6365 - **Fax.** +65 6225 6286 www.chemtradeasia.com



ENVIRONMENTAL

PROTECTION ACT

Not available. (CEPA):

REVISION INFORMATION:

