

No. 38 Jalan Eco Perindustrian 1/3B Eco Business Park 5, Bandar Puncak Alam 42300 Selangor, MALAYSIA

Website: www.ecoguard.my

# **HEALTH AND SAFETY DATA SHEET (HSDS)** AND TECHNICAL DATA SHEET (TDS)

**PRODUCT NAME** 

PRODUCT LOGO

**BRAND LOGO** 

**ECOGUARD MO** for Marine and Offshore







### **PRODUCT DESCRIPTION**

- EcoGuard MO Marine & Offshore is an innovation in carbon avoidance and reduction technology. EcoGuard MO is a cost-effective, clean solution which works by eliminating oil waste pollutants, reducing Scope 1 combustion emission and reducing Scope 3 waste generation in business operations.
- Use of **EcoGuard MO** enable marine and offshore asset owners and operators to decarbonize, in line with ESG requirements and IMO goal of reducing total annual GHG emissions by at least 50% by 2050.
- Highly effective hydrocarbon cleaning and air scrubbing solution suited for marine and offshore applications, to overcome oil waste pollution and emission challenges in ship bilges and ship exhaust systems. Usage includes for cleaning of grease and lubricant spills, tough oil stains, engine/equipment/filter cleaning, spills and leaks cleaning, fire response, OSD and air scrubber
- The recommended effectiveness is direct use or 1:1 subject to contamination.
- EcoGuard MO is a biosafe, environmentally friendly product and harmless to humans and marine life, and is 100% biodegradable.



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### **PRODUCT APPLICATION AREAS**

EcoGuard MO Marine & Offshore can be used in operations as below:

- General Cleaning and Maintenance
- Equipment and parts degreasing
- Spills and leaks cleaning
- OSD for emergency ocean spills
- Galley/canteen grease traps cleaning
- Storage tank internal washing

- Preparation for hot works
- Well maintenance
- Drainage pipes cleaning
- Fire response
- Air scrubber
- Decommissioning

#### **GAS AND DUST ELIMINATOR**

**EcoGuard MO Marine & Offshore** is effective against dust, volatile organic compounds (VOCs), gases and hydrocarbon odours. It will quickly neutralise and eliminate hydrocarbon and odor compounds, and reduce combustion emission including:

Hydrogen Sulphide

Carbon Oxides (CO<sub>x</sub>)

Mercaptans

- Nitrogen Oxides (NO<sub>x</sub>)
- Sulphur Oxides (SO<sub>x</sub>)

The product is well suited to function as air scrubber solution.

#### **PRODUCT BENEFITS**

EcoGuard MO Marine & Offshore rapidly neutralizes a large range of hydrocarbons

- 100% Biodegradable.
- Environmentally friendly.
- Safe under CHIP/COSHH.
- Non-corrosive
- No toxic fumes and vapours
- Non-acidic or caustic.
- Harmless to humans/animals.
- Recyclable

### **PRODUCT PROPERTIES**

State Liquid
Colour : Green
Odour : None
Relative density : 1.015
pH : 5.5 +/- 1

Miscibility in water : Miscible in all proportions

# APPLICATION AND DOSAGE INFORMATION

Typical usage of **EcoGuard MO Marine & Offshore** 

- **For Cleaning and Maintenance :** Spray of target oil waste using waterjet, or wipe/scrub engine or equipment. Repeat where necessary, rinse if required.
- As Air Scrubber: Mix 1:1 ratio with seawater, use to replace water in air scrubber system
- As Oil Spill Dispersant (OSD): Replace use of chemical-based dispersants

<sup>\*</sup>Full details of the product properties are available in the Safety Data Sheet. See below.

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# **COMPANY DETAILS**

### PRODUCT AND BRAND LOGO



### **PRINCIPAL AND MANUFACTURER**

# Kenanga Suria Sdn. Bhd. (1253557-T)

No. 38 Jalan Eco Perindustrian 1/3B Eco Business Park 5, Bandar Puncak Alam 42300 Selangor, MALAYSIA

Website: www.ecoguard.my Tel: +6 016 3313717

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# **ECOGUARD MO – Marine & Offshore**

MARKET PLACE	:	As an alternative to alkaline, solvents and petroleum cleaning products and gas suppression products when dealing with hydrocarbon pollution, waste contamination and spills.
INDUSTRY	:	For Marine and Offshore operations
PRODUCT	:	ECOGUARD MO is a non-toxic hydrocarbon cleaning and treatment product suitable for ocean-based operations
DESCRIPTION	:	It contains natural bio-acceleration properties. ECOGUARD MO has been formulated to have a high degree of hydrocarbon treatment, cleaning properties and excellent removal of toxic fumes whilst still being totally biodegradable.
TYPICAL USES	:	ECOGUARD MO has 2 major uses in Marine and Offshore operations — firstly to ensure oil-waste cleaning activities above deck is controlled at source, ensuring that oily water entering into bilge is within limits of below 5ppm, easing treatment process by OWS system for release. Secondly as air scrubber solution to ensure minimal release of gaseous Cox, NOx and Sox compounds from combustion.
BENEFITS	:	Totally safe for use on human and environment. It is non-toxic, non-hazardous, non-corrosive and biodegradable. It prevents recurring of odour as it eliminates from source and prevents build-up of contamination and decomposition. It aids biodegradation and bioaccelerating process immediately for complete breakdown of hydrocarbon and odour chemical chains.
DILUTION RATES	:	Effective use direct use or 1:1 with water during usage
PACKAGING	:	450mL trigger spray, 20L Canister, 200L Drum, 1000L IBC; non-returnable containers.



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# **TECHNICAL INFORMATION DATA**

PRODUCT AND BRAND LOGO

**ECOGUARD MO MARINE & OFFSHORE** 

### **PRINCIPAL AND MANUFACTURER**

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# **ECOGUARD MO – Marine and Offshore**

PHYSICAL FORM		LIQUID
COMPOSITION OF PRODUCT	:	AN AQUEOUS BLEND OF FULLY BIODEGRADABLE PROPRIETARY BLENDS OF SURFACTANTS, ORGANIC CITRIC ACID AND PINE EXTRACTS
APPEARANCE	:	GREEN
ODOUR	:	NONE
MISCIBILITY WITH WATER	:	COMPLETE
SPECIFIC GRAVITY @ 20 DEG C	:	1.005-1.010
pH	:	6.0 +/- 0.5
BOILING POINT	:	100 DEG. C
FREEZING POINT		0 DEG. C
FLASH POINT	:	> 65 DEG. C NON-FLAMMABLE
FLASH POINT METHOD	:	TCC (TAG CLOSED CUP)
DEGRADABILITY	:	> 97% GERMAN LAW
TRANSPORT INFORMATION	:	THIS PRODUCT IS NOT CONSIDERED HAZARDOUS FOR TRANSPORT
STORAGE REQUIREMENTS	:	STORE IN PLASTIC CONTAINERS ABOVE 0 DEG.C
SAFETY REQUIREMENTS	:	THIS PRODUCT IS CLASSIFIED NON-HAZARDOUS



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# SAFETY DATA SHEET

**SECTION 1: IDENTIFICATION OF THE PREPARATION** 

**SUBSTANCE NAME** : EcoGuard Hydrocarbon for Marine and Offshore

COMPANY NAME : Kenanga Suria Sdn. Bhd. (1253557-T)

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# **SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS**

INGREDIENT NAME	CONTENTS	HEALTH (Class)	RISK (R No.)
EcoGuard Hydrocarbon Advanced PhytoTechnology (APT) Plant Extract	An aqueous blend of fully biodegradable proprietary blend of surfactants, organic citric acid and pine extracts	None	None

#### **SECTION 3: HAZARDS IDENTIFICATION**

Not regarded as a health hazard under current legislation

# **SECTION 4 : FIRST AID MEASURES**

EcoGuard MO is totally safe for use and is harmless upon contact with on human. It is non-toxic, non-hazardous and non-corrosive.

**EYES**: Direct contact may cause mild irritation. Rinse eyes with water if

irritation occurs.

**SKIN** : Not expected to be irritating when used as intended. If irritation

occurs following intended use or prolonged contact, it is expected to

be mild and transient.

**INHALATION**: Not expected to be irritating to the respiratory system. Product is

non-volatile therefore limited inhalation exposure anticipated.

**INGESTION** : Product used as intended is not expected to cause gastrointestinal

irritation. Accidental ingestion may cause mild gastrointestinal

irritation.



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#### **SECTION 5: FIRE FIGHTING MEASURES**

EcoGuard MO is non-flammable and would NOT cause problems under extreme conditions

**EXTINGUISHING MEDIA** : Foam carbon dioxide (CO2), dry chemicals, sand,

dolomite, etc. are unaffected by presence of

**EcoGuard MO** 

**SPECIAL FIRE FIGHTING** 

**PROCEDURES** 

None required. EcoGuard MO is non-flammable and

is in fact an effective fire retardant

**HAZARDOUS DECOMPOSITION** 

**PRODUCTS** 

None. No toxic gases/vapors/fumes of carbon

monoxide (CO)

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

**SPILL CLEANUP METHODS**: General clean-up procedures for liquid spill.

SMALL SPILLS : General clean-up procedures for liquid spill. Wash surface

thoroughly with water after dealing with spillage. Ensure adequate rinsing to remove residual solution from surface.

Dry affected surface.

LARGE SPILLS : Product is eco-friendly and 100% biodegradable. Poses no

risk to environment. Flush spillage into municipality drains based on local regulation and approval. Ensure adequate rinsing to remove residual solution from surface. Dry

affected surface.

# **SECTION 7: HANDLING AND STORAGE**

**USAGE PRECAUTION**: None

**STORAGE PRECAUTION** : Store in plastic containers at temperatures above 0°C. Keep

containers closed during storage.



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#### **SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION**

INGREDIENT NAME STD LT EXP ST EXP

(8 hrs) (10 min.)

Does not apply

PROTECTIVE EQUIPMENT : No requirements specific for EcoGuard MO product

handling. Protective equipment is recommended

based on target pollutant being handled.

**RESPIRATORS** : No requirements specific for EcoGuard MO product

handling. Use suitable respirators if operating in confined space with potential risk of toxic gas

exposure before treatment.

PROTECTIVE GLOVES : No requirements specific for EcoGuard MO product

handling. Wearing gloves is recommended if target

pollutant is acidic or caustic in nature.

**EYE PROTECTION** : No requirements specific for EcoGuard MO product

handling. Wear splash-proof eye goggles to prevent

any possibility of eye contact.

### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE : Green
ODOUR/TASTE : None

**SOLUBILITY DESCRIPTION** : Miscible with water

**SPECIFIC GRAVITY (water = 1)** : 1.005 @ 20C

FLASH POINT (C) : No Flash point. This product is non-flammable

FLASH POINT METHOD : TCC (Tag closed cup)

**pH** : 6.0 +/- 0.5

# **SECTION 10: STABILITY AND REACTIVITY**

STABILITY : None

MATERIALS TO AVOID : None

HAZARDOUS DECOMPOSITION : None



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# **SECTION 11: TOXICOLOGICAL INFORMATION**

TOXIC DOSE 1 (LD 50) : Non toxic

TOXIC CONS. (LC 50) : Non toxic

HEALTH WARNINGS : None
HEALTH SYMPTOMS : None

**ACUTE AND CHRONIC** : No known chronic or acute health risks

**HEALTH HAZARDS** 

#### **SECTION 12: ECOLOGICAL INFORMATION**

**DEGRADABILITY** : >97% (German Law)

ACUTE FISH TOXICITY : Non toxic

WATER HAZARD CLASSIFICATION : Non toxic

**SECTION 13: DISPOSAL CONDITION** 

**DISPOSAL METHODS** : Disposal procedures in compliance with

environmental and local regulations

# **SECTION 14: TRANSPORT INFORMATION**

**UD No.** : This product is not considered hazardous for

transport

**PRODUCT COMMODITY CODE (HS CODE)** : 3402 9010

# **SECTION 15: REGULATORY INFORMATION**

LABEL FOR SUPPLY	:	Non-hazardous classification
RISK PHRASES	:	Not classified
SAFETY PHRASES		Wear suitable gloves and eye protection (recommended safety practises)
UK REGULATORY REFERENCES	:	Health and Safety at Work Act 1974. The Control of Substances Hazardous to Health Regulations 1988 Chemical (Hazard Information and Packaging) Regulations
MALAYSIA REGULATORY REFERENCES	:	GESAMP (2014, 2 <sup>nd</sup> ed.). Revised GESAMP Hazard Evaluation Procedure for Chemical Substances Carried in Ships (IMO/ FAO/ UNESCO - IOC/ WMO/ IAEA/ UN/ UNEP/ UNIDO/ UNDP) Joint Group of Experts on the Scientific Aspects of Marine Environmental Protection, Rep. Stud. GESAMP No.64.



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# **SECTION 16: OTHER INFORMATION**

**USER NOTES** 

**REVISION DATE** : 01.09.2022

**REVISION NO. / REPLACES SDS ISSUED** : 1 / All previous health and safety data

sheets

### **DISCLAIMER**

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