# KINSLEE ENTERPRISES LIMITED



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KINSLEE Hazard Alert Code: 1

Issue Date: **01/01/2024** Print Date: **01/01/2024** 

KINSLEE: 162018 Version No: **5.3.3.1** 

Safety Data Sheet according to WHS and ADG requirements

## SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifier				
Product name	FURNACE OIL 280			
Synonyms	Heavy Fuel Oil, Marine Residual Fuel			
Relevant identified uses of the	ne substance or mixture and uses advised against			
Product Use	Fuel for Industrial and Commercial Boilers and Furnaces			
Details of the supplier of the	safety data sheet			
Registered company name	KINSLEE ENTERPRISES LIMITED			
Address	59 QUEENS ROAD EAST UNIT 1109, 11/F, DOMINION CENTRE WANCHAI HONGKONG			
Telephone	+61 417 415 881			
Fax	NA			
Website	www.kinslee-hk.com			
Email	info@kinslee-hk.com			
Emergency telephone number	er			
Association / Organisation	Not Available			
Emergency telephone numbers	+61 417 415 881			
Other emergency telephone numbers	Not Available			

## **SECTION 2 HAZARDS IDENTIFICATION**

Classification of the substance or mixture

NON-HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

## CHEMWATCH HAZARD RATINGS

	Min	Max	
Flammability	1		
Toxicity	1		0 = Minimum
Body Contact	1		1 = Low 2 = Moderate
Reactivity	1		3 = High
Chronic	0		4 = Extreme

Poisons Schedule	Not Applicable
Classification	Not Applicable
Label elements	
Hazard pictogram(s)	Not Applicable
SIGNAL WORD	NOT APPLICABLE

## Hazard statement(s)

Not Applicable

Precautionary statement(s) Prevention

Not Applicable

Precautionary statement(s) Response

Not Applicable

Precautionary statement(s) Storage

Not Applicable

KINSLEE: **162018** Version No: **5.3.3.1**  Page 2 of 7

**FURNACE OIL 280** 

Issue Date: **01/01/2024**Print Date: **01/01/2024** 

## Precautionary statement(s) Disposal

Not Applicable

#### **SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**

#### Substances

See section below for composition of Mixtures

#### Mixtures

CAS No	%[weight]	Name
68476-33-5.	90-100	Heavy Fuel Oil, Marine Residual Fuel

## **SECTION 4 FIRST AID MEASURES**

#### Description of first aid measures

Eye Contact	If this product comes in contact with the eyes:  Wash out immediately with fresh running water.  Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.  Seek medical attention without delay; if pain persists or recurs seek medical attention.  Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin contact occurs:  Immediately remove all contaminated clothing, including footwear.  Flush skin and hair with running water (and soap if available).  Seek medical attention in event of irritation.
Inhalation	<ul> <li>If fumes or combustion products are inhaled remove from contaminated area.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>Transport to hospital, or doctor.</li> </ul>
Ingestion	<ul> <li>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> <li>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>Seek medical advice.</li> </ul>

#### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

- ▶ Heavy and persistent skin contamination over many years may lead to dysplastic changes. Pre-existing skin disorders may be aggravated by exposure to this product.
- In general, emesis induction is unnecessary with high viscosity, low volatility products, i.e. most oils and greases.
- High pressure accidental injection through the skin should be assessed for possible incision, irrigation and/or debridement.

**NOTE:** Injuries may not seem serious at first, but within a few hours tissue may become swollen, discoloured and extremely painful with extensive subcutaneous necrosis. Product may be forced through considerable distances along tissue planes.

## **SECTION 5 FIREFIGHTING MEASURES**

#### **Extinguishing media**

- ▶ Foam.
- Fine water spray and Dry chemical powder
- ► Clean Agents (Inergen, Argonite)
- ▶ Carbon dioxide and Sand or Earth may be used for small fires only

#### **Hazards from Combustion Products**

▶ Combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates and gases, including carbon monoxide, clean Agents (Inergen, Argonite), sand or earth maybe used for small fires only

#### The vapour is heavier than air, spreads along the ground and distant ignition is possible. Specific Hazards Will float and maybe reignited on surface water. Flammable vapours may be present even at temperatures below the flash point. Unsuitable Do not use water jet Extinguishing Media Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) operated in positive pressure mode and full protective clothing to prevent Exposure to vapours or fumes. Water spray may be used to cool down heat-exposed containers. Fight fire from safe location. This product should be prevented from entering drains and watercourses. **Protective Equipment** For firefighters **Additional Advice** Keep adjacent drums and tanks cool by spraying with water from a safe location. If possible remove them from the danger zone. If adequate cooling cannot be achieved, the area needs to be evacuated, and further fire fighting and cooling attempts should be carried out from a safe location. **HAZCHEM** NOT AVAILABLE

**FURNACE OIL 280** 

Issue Date: 01/01/2024

Print Date: 01/01/2024

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

#### Personal precautions, protective equipment and emergency procedures

See section 8

## **Environmental precautions**

See section 12

## Methods and material for containment and cleaning up

Minor Spills

Slippery when spilt

- Remove all ignition sources.
- Clean up all spills immediately.
- Avoid breathing vapours and contact with skin and eyes.
- Control personal contact with the substance, by using protective equipment.

Major Spills

Slippery when spilt.

Minor hazard.

Clear area of personnel.

Alert Fire Brigade and tell them location and nature of hazard.

Control personal contact with the substance, by using protective equipment as required.

Remove all ignition sources.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

#### **SECTION 7 HANDLING AND STORAGE**

#### Precautions for safe handling

# Safe handling

- Limit all unnecessary personal contact.
- Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.

Avoid contact with incompatible materials.

acid chlorides

Store in original containers.

Other information

- Keep containers securely sealed.
- No smoking, naked lights or ignition sources.
- Store in a cool, dry, well-ventilated area.

#### Conditions for safe storage, including any incompatibilities

Suitable container

- Metal can or drum
- Packaging as recommended by manufacturer.
- Check all containers are clearly labelled and free from leaks.

Storage incompatibility

CARE: Water in contact with heated material may cause foaming or a steam explosion with possible severe burns from wide scattering of hot material. Resultant overflow of containers may result in fire.

Avoid storage with oxidisers

## **SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

## Control parameters

## OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Not Available

## **EMERGENCY LIMITS**

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
FURNACE OIL 280	Not Available	Not Available	Not Available	Not Available

#### **Exposure controls**

Appropriate engineering controls

General exhaust is adequate under normal operating conditions.

Personal protection









## Eye and face protection

- Safety glasses with side shields; or as required,
- Chemical goggles.
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of

Issue Date: 01/01/2024 Print Date: 01/01/2024

	chemicals in use and an account of injury experience.
Skin protection	See Hand protection below
Hands/feet protection	Wear chemical protective gloves, e.g. PVC. Wear safety footwear.
Body protection	See Other protection below
Other protection	Overalls. Barrier cream Eyewash unit.
Thermal hazards	Not Available

#### Respiratory protection

Type A-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	A-AUS P2	-	A-PAPR-AUS / Class 1 P2
up to 50 x ES	-	A-AUS / Class 1 P2	-
up to 100 x ES	-	A-2 P2	A-PAPR-2 P2 ^

<sup>^ -</sup> Full-face

 $A(All\ classes) = Organic\ vapours,\ B\ AUS\ or\ B1 = Acid\ gasses,\ B2 = Acid\ gas\ or\ hydrogen\ cyanide(HCN),\ B3 = Acid\ gas\ or\ hydrogen\ cyanide(HCN),\ E = Sulfur\ dioxide(SO2),\ G = Agricultural\ chemicals,\ K = Ammonia(NH3),\ Hg = Mercury,\ NO = Oxides\ of\ nitrogen,\ MB = Methyl\ bromide,\ AX = Low\ boiling\ point\ organic\ compounds(below\ 65\ degC)$ 

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

## Information on basic physical and chemical properties

Appearance	Black		
Physical state	Liquid	Specific density (15°C)	900 - 930
Odo <mark>u</mark> r	Hydrocarbon Odour	Partition coefficient n-octanol / water	Not Available
Odour thresho <mark>l</mark> d	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (D445)	250 – 280 (@ 50 Deg C)
Boiling Point (°C)	>300 Deg C	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	150 - 175	Taste	Not Available
Evaporation rate	Not Available	Compounds (VOC)	Not Available
Flammability	Flammable liquid and vapor	Oxidising properties	Not Available
Upper Explosive Limit (%)	: 5% v/v	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	0.5% v/v	Volatile Component (%vol)	Not Available
Vapour pressure (mmHg)	Not Available	Gas group	Not Available
Solubility	Negligible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	(Air = 1):>1	VOC g/L	Not Available

## **SECTION 10 STABILITY AND REACTIVITY**

Chemical Stability	Stable under normal conditions of storage and handling
Hazardous Decomposition Products	Thermal decomposition may result in the release of toxic and or irritating fumes including carbon monoxide and carbon dioxide.
Conditions to Avoid	Heat, open flames, sparks and other sources of ignition
Incompatibility	Strong oxidizers
Hazardous Polymerization	Will not polymerize

## **SECTION 11 TOXICOLOGICAL INFORMATION**

## Information on toxicological effects

Inhaled

The material is not thought to produce either adverse health effects or irritation of the respiratory tract following inhalation (as classified by EC Directives using animal models). Nevertheless, adverse systemic effects have been produced following exposure of animals by at least one other route and good hygiene

KINSLEE: 162018 Version No: 5.3.3.1

## Page 5 of 7 **FURNACE OIL 280**

Issue Date: 01/01/2024 Print Date: 01/01/2024

	practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. Inhalation hazard is increased at higher temperatures. Not normally a hazard due to non-volatile nature of product
Ingestion	The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.
Skin Contact	Open cuts, abraded or irritated skin should not be exposed to this material The material may accentuate any pre-existing dermatitis condition Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.
Eye	Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).
Chronic	Oil may contact the skin or be inhaled. Extended exposure can lead to eczema, inflammation of hair follicles, pigmentation of the face and warts on the soles of the feet.

## **SECTION 12 ECOLOGICAL INFORMATION**

#### Toxicity

FURNACE OIL 280	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

#### DO NOT discharge into sewer or waterways.

|Mobility|Floats on water.|Persistence / Degradability|Not readily biodegradable.|Bioaccumulation|May contain components with the potential to bioaccumulate.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air	
	No Data available for all ingredients	No Data available for all ingredients	
Bioaccumulative potential			

# Ingredient

Bioaccumulation No Data available for all ingredients

## Mobility in soil

Mobility Ingredient No Data available for all ingredients

#### **SECTION 13 DISPOSAL CONSIDERATIONS**

#### Waste treatment methods

- DO NOT allow wash water from cleaning or process equipment to enter drains.
- It may be necessary to collect all wash water for treatment before disposal.
- In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- Product / Packaging Where in doubt contact the responsible authority. disposal
  - Recycle wherever possible or consult manufacturer for recycling options.
  - Consult State Land Waste Authority for disposal.
  - Bury or incinerate residue at an approved site.
  - Recycle containers if possible, or dispose of in an authorised landfill.

## **SECTION 14 TRANSPORT INFORMATION**

#### Labels Required

Marine Pollutant	NO
HAZCHEM	Not Applicable

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

Version No: 5.3.3.1

**FURNACE OIL 280** 

Issue Date: 01/01/2024 Print Date: 01/01/2024

## **SECTION 15 REGULATORY INFORMATION**

## Safety, health and environmental regulations / legislation specific for the substance or mixture

## FURNACE OIL 280 (68476-33-5.) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Regulatory List		Component	CAS No
Inventory - Australia	(AICS)	All component Listed	68476-33-5
Inventory - Canada	Domestic Substance List	All component Listed	68476-33-5
Inventory - China		All component Listed	68476-33-5
Inventory – European	IENECS Inventory	All component Listed	68476-33-5
Inventory - Japan	(ENCS)		68476-33-5
Inventory – Korea	Existing and Evaluated	All component Listed	68476-33-5
Inventory – Philippines	Inventory (PICCS)	All component Listed	68476-33-5

#### **SECTION 16 OTHER INFORMATION**

#### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

## **Definitions and abbreviations**

PC-TWA: Permissible Concentration-Time Weighted Average

PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit $_{\circ}$ 

IDLH: Immediately Dangerous to Life or Health Concentrations

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value LOD: Limit Of Detection

OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index

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