

SECT	IION I: IDENTIFICATION
1.1	GHS Product identifier: UNITED MWF SLIDEWAY OIL ISO 100   Other means of identification: Non-applicable
1.2	Recommended use of the chemical and restrictions on use:
	Relevant uses: Lubricant
	Uses advised against: All uses not specified in this section or in section 7.3
1.3	Manufacturer's or supplier's details:
1.4	UNITED OIL COMPANY PTE LTD 14 Tuas Drive 2, Singapore 638647 638647 Singapore - Singapore Phone.: +65 6861 1157 - Fax: +65 6861 3101 enquiry@united-oil.com http://www.united-oil.com/default.aspx?uc=14 <b>Emergency phone number:</b> +65 68611157
SECT	TION 2: HAZARDS IDENTIFICATION
2.1	Classification of the substance or mixture: SS 586:Part 2:2014: The product is not classified as dangerous according to SS 586 : Part 2 : 2014

- GHS label elements, including precautionary statements: 2.2
  - SS 586:Part 2:2014: None
- 2.3 Other hazards which do not result in classification: Non-applicable

# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances:

Non-applicable

3.2 Mixtures:

Chemical description: Mixture based on hydrocarbons and additives

# **Components:**

In accordance with SS 586:Part 3:2008 (2014), the product contains:

	Identification	Chemical name/Classification	Concentration
CAS:	64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic , < 3 % IP 346, > 20,5 cSt @ 40°C	75 - <100 %
To ob	tain more informat	tion on the hazards of the substances consult sections 11, 12 and 16.	

# SECTION 4: FIRST-AID MEASURES

#### 4.1 Description of necessary first-aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

# By inhalation:

This product does not contain substances classified as hazardous for inhalation, however, in case of symptoms of intoxication remove the person affected from the exposure area and provide with fresh air. Seek medical attention if the symptoms get worse or persist.

# By skin contact:

In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap. In case of modifications on the skin (stinging, redness, rashes, blisters,...), seek medical advice with this Safety data Sheet



# SECTION 4: FIRST-AID MEASURES (continued)

#### By eye contact:

This product does not contain substances classified as hazardous for eye contact. Rinse eyes thoroughly for at least 15 minutes with lukewarm water, ensuring that the person affected does not rub or close their eyes. **By ingestion/aspiration:** 

In case of consumption, seek immediate medical assistance showing the SDS of this product.

### 4.2 Most important symptoms/effects, acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

#### 4.3 Indication of immediate medical attention and special treatment needed, if necessary:

Non-applicable

# SECTION 5: FIRE-FIGHTING MEASURES

#### 5.1 Suitable extinguishing media:

#### Suitable extinguishing media:

Product is non-flammable under normal conditions of storage, handling and use. In the case of combustion as a result of improper handling, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

#### Unsuitable extinguishing media:

Non-applicable

#### 5.2 Specific hazards arising from the chemical:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

#### 5.3 Special protective actions for fire-fighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

# SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

# 6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water.

### 6.3 Methods and materials for containment and cleaning up:

#### It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

# 6.4 Reference to other sections:

See sections 8 and 13.

# SECTION 7: HANDLING AND STORAGE

#### 7.1 Precautions for safe handling:

A.- Precautions for safe manipulation



SECTION 7: HANDLING AND STORAGE (continued)

	spills and residues, cleanliness where d	rrent legislation concerning the prever destroying them with safe methods (s angerous products are used. ndations for the prevention of fires an	ection 6). Avoid leakag			
	Product is non-flam speeds to avoid the on conditions and n	mable under normal conditions of stor generation of electrostatic charges th naterials that should be avoided. ndations to prevent ergonomic and to:	age, manipulation and at can affect flammabl			
		, ,	-	dooping produc	to	
		during the process, washing hands af		cleaning produc		
		ndations to prevent environmental risk				2)
		to have absorbent material available a		e product (See s	Subsection 6.	3)
7.2		torage, including any incompatibi	lities:			
	A Technical measures	-				
	Minimum Temp.:	5 °C				
	Maximum Temp.:	30 °C				
	Maximum time:	6 Months				
	B General conditions	for storage				
	Avoid sources of he	at, radiation, static electricity and con	tact with food. For add	litional informati	on see subse	ection 10.5
7.3	Specific end use(s):					
	Except for the instruction product.	ons already specified it is not necessar	y to provide any specia	al recommendat	ion regarding	g the uses of this
SECT	ITON OF EVPOSORE C	ONTROLS/PERSONAL PROTECTI	.ON			
			ON			
SECT 8.1	Control parameters/	Occupational exposure limits:		2001		
	Control parameters/ Substances whose occu	Occupational exposure limits: upational exposure limits have to be m	onitored in the workpla	ace:		
	Control parameters/ Substances whose occu	Occupational exposure limits: upational exposure limits have to be m lealth (General Provisions) Regulations	onitored in the workpla		pational exposu	re limits
	Control parameters/ Substances whose occu	Occupational exposure limits: upational exposure limits have to be m	onitored in the workpla		pational exposu	re limits 10 mg/m³
	Control parameters/ Substances whose occu Workplace Safety and H 2,6-di-tert-butyl-p-cresol CAS: 128-37-0	Occupational exposure limits: upational exposure limits have to be m lealth (General Provisions) Regulations	onitored in the workpla	Occu PEL (Long Term) PEL (Short Term)		10 mg/m <sup>3</sup>
	Control parameters/ Substances whose occu Workplace Safety and H 2,6-di-tert-butyl-p-cresol CAS: 128-37-0 1,2,4-trimethylbenzene	Occupational exposure limits: upational exposure limits have to be m lealth (General Provisions) Regulations	onitored in the workplas:	Occu PEL (Long Term) PEL (Short Term) PEL (Long Term)	25 ppm	
8.1	Control parameters/ Substances whose occu Workplace Safety and H 2,6-di-tert-butyl-p-cresol CAS: 128-37-0 1,2,4-trimethylbenzene CAS: 95-63-6	Occupational exposure limits: upational exposure limits have to be m lealth (General Provisions) Regulations Identification	onitored in the workplas:	Occu PEL (Long Term) PEL (Short Term)		10 mg/m <sup>3</sup>
	Control parameters/ Substances whose occu Workplace Safety and H 2,6-di-tert-butyl-p-cresol CAS: 128-37-0 1,2,4-trimethylbenzene CAS: 95-63-6 Appropriate enginee	Occupational exposure limits: upational exposure limits have to be m lealth (General Provisions) Regulations Identification	onitored in the workpla	Occu PEL (Long Term) PEL (Short Term) PEL (Long Term)		10 mg/m <sup>3</sup>
8.1	Control parameters/ Substances whose occu Workplace Safety and H 2,6-di-tert-butyl-p-cresol CAS: 128-37-0 1,2,4-trimethylbenzene CAS: 95-63-6 Appropriate engineer A Individual protectio	Occupational exposure limits: upational exposure limits have to be m lealth (General Provisions) Regulations Identification	onitored in the workpla :: ve equipment (PPE)	Occu PEL (Long Term) PEL (Short Term) PEL (Long Term) PEL (Short Term)	25 ppm	10 mg/m <sup>3</sup>
8.1	Control parameters/ Substances whose occu Workplace Safety and H 2,6-di-tert-butyl-p-cresol CAS: 128-37-0 1,2,4-trimethylbenzene CAS: 95-63-6 Appropriate engineer A Individual protection As a preventative m Protection Equipme the manufacturer. F All information cont	Occupational exposure limits: upational exposure limits have to be m lealth (General Provisions) Regulations Identification	onitored in the workpla : ve equipment (PPE) c Personal Protection E ce, class of protection,. 1. ch needs some specific	Occu PEL (Long Term) PEL (Short Term) PEL (Short Term) PEL (Short Term) Equipment. For r ) consult the ir cation from the	25 ppm 25 ppm nore informa	10 mg/m <sup>3</sup> 123 mg/m <sup>3</sup> tion on Personal aflet provided by
8.1	Control parameters/ Substances whose occu Workplace Safety and H 2,6-di-tert-butyl-p-cresol CAS: 128-37-0 1,2,4-trimethylbenzene CAS: 95-63-6 Appropriate engineer A Individual protection As a preventative m Protection Equipme the manufacturer. F All information cont	Occupational exposure limits: upational exposure limits have to be m lealth (General Provisions) Regulations Identification Identification ring control measures: n measures, such as personal protective neasure it is recommended to use basis nt (storage, use, cleaning, maintenance for more information see subsection 7. ained herein is a recommendation white whether the company has additional measures the company has additional measures and the company has additional measures the company has additional measures	onitored in the workpla : ve equipment (PPE) c Personal Protection E ce, class of protection,. 1. ch needs some specific	Occu PEL (Long Term) PEL (Short Term) PEL (Short Term) PEL (Short Term) Equipment. For r ) consult the ir cation from the	25 ppm 25 ppm nore informa	10 mg/m <sup>3</sup> 123 mg/m <sup>3</sup> tion on Personal aflet provided by
8.1	Control parameters/ Substances whose occu Workplace Safety and H 2,6-di-tert-butyl-p-cresol CAS: 128-37-0 1,2,4-trimethylbenzene CAS: 95-63-6 Appropriate enginee A Individual protectio As a preventative m Protection Equipme the manufacturer. F All information cont as it is not known w B Respiratory protection	Occupational exposure limits: upational exposure limits have to be m lealth (General Provisions) Regulations Identification Identification ring control measures: n measures, such as personal protective neasure it is recommended to use basis nt (storage, use, cleaning, maintenance for more information see subsection 7. ained herein is a recommendation white whether the company has additional measures the company has additional measures and the company has additional measures the company has additional measures	onitored in the workpla we equipment (PPE) c Personal Protection E ce, class of protection, 1. ch needs some specific easures at its disposal.	Occu PEL (Long Term) PEL (Short Term) PEL (Long Term) PEL (Short Term) Equipment. For r ) consult the ir cation from the	25 ppm 25 ppm nore informa nformation le labour risk pi	10 mg/m <sup>3</sup> 123 mg/m <sup>3</sup> tion on Personal aflet provided by revention services
8.1	Control parameters/ Substances whose occu Workplace Safety and H 2,6-di-tert-butyl-p-cresol CAS: 128-37-0 1,2,4-trimethylbenzene CAS: 95-63-6 Appropriate enginee A Individual protectio As a preventative m Protection Equipme the manufacturer. F All information cont as it is not known w B Respiratory protection	Occupational exposure limits: upational exposure limits have to be m lealth (General Provisions) Regulations Identification Identification ring control measures: n measures, such as personal protection neasure it is recommended to use basis nt (storage, use, cleaning, maintenance for more information see subsection 7. ained herein is a recommendation while whether the company has additional me ion on equipment will be necessary if a mission	onitored in the workpla we equipment (PPE) c Personal Protection E ce, class of protection, 1. ch needs some specific easures at its disposal.	Occu PEL (Long Term) PEL (Short Term) PEL (Long Term) PEL (Short Term) Equipment. For r ) consult the ir cation from the	25 ppm 25 ppm nore informa nformation le labour risk pi	10 mg/m <sup>3</sup> 123 mg/m <sup>3</sup> tion on Personal aflet provided by revention services
8.1	Control parameters/ Substances whose occu Workplace Safety and H 2,6-di-tert-butyl-p-cresol CAS: 128-37-0 1,2,4-trimethylbenzene CAS: 95-63-6 Appropriate enginee A Individual protection As a preventative m Protection Equipment the manufacturer. F All information cont as it is not known w B Respiratory protection The use of protection	Occupational exposure limits: upational exposure limits have to be m lealth (General Provisions) Regulations Identification Identification ring control measures: n measures, such as personal protection neasure it is recommended to use basis nt (storage, use, cleaning, maintenance for more information see subsection 7. ained herein is a recommendation while whether the company has additional me ion on equipment will be necessary if a mission	onitored in the workpla we equipment (PPE) c Personal Protection E ce, class of protection, 1. ch needs some specific easures at its disposal.	Occu PEL (Long Term) PEL (Short Term) PEL (Long Term) PEL (Short Term) Equipment. For r ) consult the ir cation from the	25 ppm 25 ppm nore informa nformation le labour risk pr e limits are e	10 mg/m <sup>3</sup> 123 mg/m <sup>3</sup> tion on Personal aflet provided by revention services
8.1	Control parameters/ Substances whose occu Workplace Safety and H 2,6-di-tert-butyl-p-cresol CAS: 128-37-0 1,2,4-trimethylbenzene CAS: 95-63-6 Appropriate enginee A Individual protection As a preventative m Protection Equipment the manufacturer. F All information cont as it is not known w B Respiratory protection The use of protection	Occupational exposure limits: upational exposure limits have to be m lealth (General Provisions) Regulations Identification Identification ring control measures: n measures, such as personal protection neasure it is recommended to use basis nt (storage, use, cleaning, maintenance for more information see subsection 7. ained herein is a recommendation while whether the company has additional me ion on equipment will be necessary if a mis- for the hands	onitored in the workpla we equipment (PPE) c Personal Protection E ce, class of protection, 1. ch needs some specific easures at its disposal.	Occu PEL (Long Term) PEL (Short Term) PEL (Short Term) PEL (Short Term) Equipment. For r ) consult the ir cation from the pational exposur Remarks any sign of damage	25 ppm 25 ppm nore informa information le labour risk pr e limits are e e. For prolonged ials, we recomm	10 mg/m <sup>3</sup> 123 mg/m <sup>3</sup> tion on Personal aflet provided by revention services exceeded.

total reliability and has therefore to be checked prior to the application.

D.- Ocular and facial protection

### Safety data sheet According to SS 586:Part 3:2008 (2014)

**UNITED MWF SLIDEWAY OIL ISO 100** 

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

	8: EXPUSURE	CONTROLS/PERSONAL PROTECTI	ion (continued)
]	Pictogram	PPE	Remarks
	Ticcogram		
	Mandatory face protection	Panoramic glasses against splash/projections.	Clean daily and disinfect periodically according to the manufacturer 's instructions. Use if there is a risk of splashing.
E	Bodily protection		
	Pictogram	PPE	Remarks
		Work clothing	Replace before any evidence of deterioration.

		Anti-slip work shoes	Replace before any evidence of deterioration.	
F	Additional emerge	ncy measures		

Emergency measure	Standards	Emergency measure	Standards
	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	©+ T	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
Emergency shower		Eyewash stations	

# Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:	
Physical state at 20 °C:	Liquid
Appearance:	Not available
Color:	Not available
Odor:	Not available
Odour threshold:	Non-applicable *
Volatility:	
Boiling point at atmospheric pressure:	Non-applicable *
Vapour pressure at 20 °C:	Non-applicable *
Vapour pressure at 50 °C:	Non-applicable *
Evaporation rate at 20 °C:	Non-applicable *
Product description:	
Density at 20 °C:	864.1 kg/m³
Relative density at 20 °C:	0.864
Dynamic viscosity at 20 °C:	Non-applicable *
Kinematic viscosity at 20 °C:	Non-applicable *
Kinematic viscosity at 40 °C:	~107 cSt
Kinematic viscosity at 100 °C:	~12.23 cSt
Concentration:	Non-applicable *
*Not relevant due to the nature of the product, not providing info	mation property of its hazards.



SECTION 9: PHYSICAL AND CHEMICAL PROPER	RTIES (continued)	
pH:	Non-applicable *	
Vapour density at 20 °C:	Non-applicable *	
Partition coefficient n-octanol/water 20 °C:	Non-applicable *	
Solubility in water at 20 °C:		
Solubility properties:	Non-applicable *	
Decomposition temperature:	Non-applicable *	
Melting point/freezing point:	Non-applicable *	
Explosive properties:	Non-applicable *	
Oxidising properties:	Non-applicable *	
Flammability:		
Flash Point:	>200 °C	
Heat of combustion:	Non-applicable *	
Flammability (solid, gas):	Non-applicable *	
Autoignition temperature:	Non-applicable *	
Lower flammability limit:	Non-applicable *	
Upper flammability limit:	Non-applicable *	
Explosive:		
Lower explosive limit:	Non-applicable *	
Upper explosive limit:	Non-applicable *	
9.2 Other information:		
Surface tension at 20 °C:	Non-applicable *	
Refraction index:	Non-applicable *	
*Not relevant due to the nature of the product, not providir	ig information property of its hazards.	

# SECTION 10: STABILITY AND REACTIVITY

#### 10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

# 10.2 Chemical stability:

Chemically stable under the conditions of storage, handling and use.

# 10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

#### 10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

# **10.5** Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Not applicable	Not applicable	Avoid alkalis or strong bases

#### **10.6 Hazardous decomposition products:**

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO2), carbon monoxide and other organic compounds.

# SECTION 11: TOXICOLOGICAL INFORMATION

**11.1** Information on toxicological effects:



# SECTION 11: TOXICOLOGICAL INFORMATION (continued)

The experimental information related to the toxicological properties of the product itself is not available

#### Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

- A- Ingestion (acute effect):
  - Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for consumption. For more information see section 3.

- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

- B- Inhalation (acute effect):
  - Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for inhalation. For more information see section 3.

- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for skin contact. For more information see section 3.

- Contact with the eyes: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.

IARC: 2,6-di-tert-butyl-p-cresol (3); Distillates (petroleum), solvent-dewaxed light paraffinic, < 3 % IP 346 (3); Solvent naphtha (petroleum), light arom. (3); Residual oils (petroleum), hydrotreated (IP346 < 3 %, >20.5 cSt @ 40°C) (3); Distillates (petroleum), hydrotreated heavy paraffinic, < 3 % IP 346, > 20,5 cSt @ 40°C (3)

- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3.

- Cutaneous: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- F- Specific target organ toxicity (STOT) single exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

- G- Specific target organ toxicity (STOT)-repeated exposure:
  - Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

# Other information:

Non-applicable

#### Specific toxicology information on the substances:

Identification	Acut	e toxicity	Genus
Distillates (petroleum), hydrotreated heavy paraffinic , < 3 % IP 346, > 20,5 cSt @ 40°C	LD50 oral	>5000 mg/kg	
CAS: 64742-54-7	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>20 mg/L (4 h)	

Acute Toxicity Estimate (ATE mix):

#### Safety data sheet According to SS 586:Part 3:2008 (2014)



# **UNITED MWF SLIDEWAY OIL ISO 100**

# SECTION 11: TOXICOLOGICAL INFORMATION (continued)

ATE mix		Ingredient(s) of unknown toxicity
Oral	>5000 mg/kg (Calculation method)	Non-applicable
Dermal	>5000 mg/kg (Calculation method)	Non-applicable
Inhalation	>20 mg/L (4 h) (Calculation method)	Non-applicable

# SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

- 12.1 Toxicity:
  - Not available
- 12.2 Persistence and degradability:

Not available

- 12.3 Bioaccumulative potential: Not available
- 12.4 Mobility in soil:

Not available

- 12.5 Results of PBT and vPvB assessment: Non-applicable
- 12.6 Other adverse effects:

Not described

# SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1 Disposal methods:

#### Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations. In case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as nondangerous residue. We do not recommended disposal down the drain. See epigraph 6.2.

# Regulations related to waste management:

Legislation related to waste management:

Environmental Public Health (Toxic Industrial Waste) Regulations. Hazardous Waste (Control of Export, Import and Transit) Act.

# SECTION 14: TRANSPORT INFORMATION

#### Transport of dangerous goods by land:

With regard to SS 586-1 (2014):

- 14.1 UN number:
- Non-applicable 14.2 UN proper shipping name: Non-applicable 14.3 Transport hazard class(es): Non-applicable Labels: Non-applicable **14.4** Packing group, if applicable: Non-applicable 14.5 Environmental hazard: No 14.6 Special precautions for user Physico-Chemical properties: see section 9
- 14.7 Transport in bulk according Non-applicable to Annex II of MARPOL 73/78 and the IBC Code:
- Transport of dangerous goods by sea:

With regard to IMDG 39-18:

SECTION 14: T	RANSPORT INFORMATION (	continued)
14.1	UN number:	Non-applicable
14.2	UN proper shipping name:	Non-applicable
	Transport hazard class(es):	Non-applicable
	Labels:	Non-applicable
14.4	Packing group, if applicable:	Non-applicable
14.5	Marine pollutant:	No
14.6	Special precautions for user	
	Special regulations: EmS Codes:	Non-applicable
		see section 9
	Physico-Chemical properties: Limited quantities:	Non-applicable
	Segregation group:	Non-applicable
147	5 5 5 1	
14./	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:	Non-applicable
Transpo	rt of dangerous goods by air:	
-	rd to IATA/ICAO 2021:	
14.1	UN number:	Non-applicable
14.2	UN proper shipping name:	Non-applicable
	Transport hazard class(es):	Non-applicable
	Labels:	Non-applicable
14.4	Packing group, if applicable:	Non-applicable
14.5	Environmental hazard:	No
14.6	Special precautions for user	
	Physico-Chemical properties:	see section 9
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:	Non-applicable

# SECTION 15: REGULATORY INFORMATION

# **15.1** Safety, health and environmental regulations specific for the product in question:

#### Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

#### Other legislation:

Environmental Protection and Management (Hazardous Substances) Regulations. Environmental Protection and Management Act. Environmental Public Health Act. Fire Safety Act. Workplace Safety and Health Act. Workplace Safety and Health (General Provisions) Regulations.

# SECTION 16: OTHER INFORMATION

#### Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with SS 586Part 3:2008 (2014) - Specification for hazard communication for hazardous chemicals and dangerous goods - Part 3 : Preparation of safety data sheets (SDS).

# Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

# SS 586:Part 2:2014:

Non-applicable

# Advice related to training:



Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.
Principal bibliographical sources:
http://www.nea.gov.sg
Abbreviations and acronyms:
IMDG: International maritime dangerous goods code
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
COD: Chemical Oxygen Demand
BOD5: 5-day biochemical oxygen demand
BCF: Bioconcentration factor
LD50: Lethal Dose 50
CL50: Lethal Concentration 50
EC50: Effective concentration 50
Log-POW: Octanol-water partition coefficient
Koc: Partition coefficient of organic carbon

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.