

Fuel Oil 180/380 cSt

**SECTION 2: Hazards identification****SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Product name** : Fuel Oil 180/380 cSt**Viscosity or Type** : Cracked, Marine, Burning**Material uses** : Fuel for heating equipment **Index number** : 649-024-00-9 **EC number** : 270-675-6**REACH Registration number**

Registration number	Legal entity
01-2119474894-22	-

**CAS number** : 68476-33-5**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Not applicable.

**1.3 Details of the supplier of the safety data sheet**

**Manufacturer / Distributor** : ATDM CO LTD  
 Business bay  
 Dr. Marasi drive  
 Dubai  
 Tel. +97145681734,

**e-mail address of person responsible for this SDS** : [info@atdmco.com](mailto:info@atdmco.com), preferably in English only.

**1.4 Emergency telephone number****SECTION 2: Hazards identification****2.1 Classification of the substance or mixture Product definition** : UVCB**Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**

Acute Tox. 4, H332  
 Carc. 1B, H350  
 Repr. 2, H361fd  
 STOT RE 2, H373  
 Aquatic Chronic 1, H410

**Ingredients of unknown toxicity** : None.  
 : None.

**Ingredients of unknown ecotoxicity**

**Classification according to Directive 67/548/EEC [DSD]**

Carc. Cat. 2; R45  
 Repr. Cat. 3; R63  
 Xn; R20, R48/20  
 R66  
 N; R50/53

See Section 16 for the full text of the R phrases or H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

**2.2 Label elements****Hazard pictograms** :

**Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - Europe**

**Signal word** : Danger

**Hazard statements** : H332 Harmful if inhaled.  
H350 May cause cancer.  
H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H410 Very toxic to aquatic life with long lasting effects.

**Precautionary statements****Prevention**

: P201 - Obtain special instructions before use.  
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.  
P273 - Avoid release to the environment.  
P281 - Use personal protective equipment as required.

**Response**

: P308 - IF exposed or concerned:  
P313 - Get medical attention.

**Storage****Disposal**

: P405 - Store locked up.

**Supplemental label elements**

: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.  
: Not applicable.

**Special packaging requirements**

**Containers to be fitted with child-resistant fastenings** : Not applicable.

**Tactile warning of danger** : Not applicable.

**2.3 Other hazards**

**Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII** : No.  
PBT: Specified

**Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII** : No.  
vPvB: Specified

**Other hazards which do not result in classification** : Hazardous concentrations of hydrogen sulphide (H<sub>2</sub>S) gas may accumulate in the vapour space of storage vessels. Standard procedures for opening or entering tanks, vessels or other containers must strictly be followed to avoid inhalation of this acutely toxic gas. Defatting to the skin.

**SECTION 3: Composition/information on ingredients**

**Substance/mixture** : UVCB

Product/ingredient name	Identifiers	%	Classification		
			67/548/EEC	Type Regulation (EC) No. 1272/2008 [CLP]	
Fuel oil, residual	REACH #: 01-2119474894-22 EC: 270-675-6 CAS: 68476-33-5 Index: 649-024-00-9	100	Carc. Cat. 2; R45  Repr. Cat. 3; R63 Xn; R20, R48/20 R66 N; R50/53	Acute Tox. 4, H332  Carc. 1B, H350 Repr. 2, H361fd STOT RE 2, H373 Aquatic Chronic 1, H410	[A]

**Fuel Oil 180/380 cSt**

**SECTION 3: Composition/information on ingredients**

			See Section 16 for the full text of the R-phrases declared above.	See Section 16 for the full text of the H-statements declared above.	
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The mineral oils in the product contain < 3% DMSO extract (IP 346).

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section. Type

[\*] Substance

[A] Constituent

[B] Impurity

[C] Stabilizing additive

Occupational exposure limits, if available, are listed in Section 8.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

<b>Eye contact</b>	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
<b>Inhalation</b>	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If exposure to hydrogen sulphide is suspected or cannot be excluded, obtain medical attention IMMEDIATELY. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
<b>Skin contact</b>	: Wash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
<b>Ingestion</b>	: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
<b>Protection of first-aiders</b>	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

### 4.2 Most important symptoms and effects, both acute and delayed

#### Potential acute health effects

<b>Eye contact</b>	: No known significant effects or critical hazards.
<b>Inhalation</b>	: Harmful if inhaled.
<b>Skin contact</b>	: May be harmful in contact with skin. Defatting to the skin. May cause skin dryness and irritation.
<b>Ingestion</b>	: No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

<b>Eye contact</b>	: No specific data.
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**SECTION 4: First aid measures**

<b>Inhalation</b>	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
<b>Skin contact</b>	: Adverse symptoms may include the following: irritation dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations
<b>Ingestion</b>	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations

**4.3 Indication of any immediate medical attention and special treatment needed**

<b>Notes to physician</b>	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
<b>Specific treatments</b>	: No specific treatment.

**SECTION 5: Firefighting measures****5.1 Extinguishing media**

<b>Suitable extinguishing media</b>	: Use dry chemical, CO <sub>2</sub> , alcohol-resistant foam or water spray (fog).
<b>Unsuitable extinguishing media</b>	: Do not use water jet.

**5.2 Special hazards arising from the substance or mixture**

<b>Hazards from the substance or mixture</b>	: In a fire or if heated, a pressure increase will occur and the container may burst. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
<b>Hazardous thermal decomposition products</b>	: Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides Hydrogen sulphide

**5.3 Advice for firefighters**

<b>Special protective actions for fire-fighters</b>	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
<b>Special protective equipment for fire-fighters</b>	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

<b>For non-emergency personnel</b>	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
<b>For emergency responders</b>	: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

## SECTION 6: Accidental release measures

**6.2 Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

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

**Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

**6.4 Reference to other sections** : See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 7.1 Precautions for safe handling

**Protective measures** equipment (see Section 8). Hazardous concentrations of hydrogen sulphide (H<sub>2</sub>S) gas may accumulate in the vapour space of storage vessels. Standard procedures for opening or entering tanks, vessels or other containers must strictly be followed to avoid inhalation of this acutely toxic gas. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

#### Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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

: Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and wellventilated area, away from incompatible materials (see section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Provide adequate ventilation.

### 7.3 Specific end use(s)

: Put on appropriate personal protective

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## SECTION 7: Handling and storage

**Recommendations** : Not available.  
**Industrial sector specific** : Not available. **solutions**

## SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 8.1 Control parameters

#### Occupational exposure limits

No exposure limit value known.

**Recommended monitoring procedures** :  
**Hygiene measures** :

**Eye/face protection** :

#### Derived

#### effect

#### levels

No DELs available.

#### Skin protection

**Hand protection** :

**Body protection** :

#### Predicted effect

#### concentrations

No PECs available.

**Other skin protection** :

### 8.2 Exposure controls

**Appropriate engineering controls** :

**Respiratory protection** :

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

#### Individual protection measures

Product may release hydrogen sulphide: a specific assessment of inhalation risks from the presence of hydrogen sulphide in tank headspaces, confined spaces, product residue, tank waste and waste water and unintentional releases should be made to help determine controls appropriate to local circumstances. Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosionproof ventilation equipment.

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

## Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - Europe

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Wear suitable gloves tested to EN374.

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on

known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.



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## SECTION 8: Exposure controls/personal protection

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## SECTION 9: Physical and chemical properties

<b>9.1 Information on basic physical properties</b>	: Liquid. [Viscous liquid.]
<b>Appearance</b>	: Opaque.
<b>Physical state</b>	: Black.
<b>Appearance</b>	: Characteristic.
<b>Color</b>	: Not applicable.
<b>Odor</b>	: 7
<b>Odor threshold</b>	: >-12°C
<b>pH</b>	: to 540°C
<b>Melting point/freezing point</b>	:
<b>Initial boiling point and boiling range</b>	: Open cup: >60°C [ASTM D92.]
<b>Flash point</b>	: Not applicable.
<b>Evaporation rate</b>	: Lower: 1.5%
<b>Flammability (solid, gas)</b>	:
<b>Upper/lower flammability or explosive limits</b>	: <0.1 kPa [20°C]
<b>Vapor pressure</b>	: Not available.
<b>Vapor density</b>	: to 1
<b>Relative density</b>	: Insoluble in the following materials: cold water and hot water.
<b>Solubility(ies)</b>	: Not dispersible in the following materials: cold water and hot water.
<b>Dispersibility properties</b>	: 4 to 6
<b>Partition coefficient: noctanol/water</b>	:
<b>Auto-ignition temperature</b>	: >220°C
<b>Decomposition temperature</b>	: >220°C
<b>Viscosity (40°C)</b>	: >25 cSt
<b>Explosive properties</b>	: Not applicable.
<b>Oxidizing properties</b>	: Not applicable.

### 9.2 Other information

No additional information.

## SECTION 10: Stability and reactivity

<b>10.1 Reactivity</b>	: No specific test data related to reactivity available for this product or its ingredients.
<b>10.2 Chemical stability</b>	<b>10.5 Incompatible materials</b>
	: The product is stable.
<b>10.3 Possibility of hazardous reactions</b>	: Under normal conditions of storage and use, hazardous reactions will not occur.
<b>10.4 Conditions to avoid</b>	: No specific data.



: Reactive or incompatible with the following materials:  
Strong oxidizing materials

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## SECTION 10: Stability and reactivity

**10.6 Hazardous decomposition products** : Decomposition products may include the following materials:  
sulfur oxides  
Hydrogen sulphide

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Fuel oil, residual	LC50 Inhalation Dusts and mists	Rat - Male, Female	4100 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit - Male, Female	>2000 mg/kg	-
	LD50 Oral	Rat - Female	4320 mg/kg	-

**Conclusion/Summary** : Not available.

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Fuel oil, residual	Skin - Edema	Rat	0.7	24 hours	7 days
	Eyes - Redness of the conjunctivae	Rabbit	1.7	-	72 hours

**Conclusion/Summary** : Not available.

#### Sensitization

Product/ingredient name	Route of exposure	Species	Result
Fuel oil, residual	skin	Rat	Not sensitizing

#### Conclusion/Summary

**Skin** : Not sensitizing

#### Mutagenicity

Product/ingredient name	Test	Experiment	Result
Fuel oil, residual	476 <i>In vitro</i> Mammalian Cell Gene Mutation Test	Experiment: In vitro Subject: Mammalian-Animal	Positive
	476 <i>In vitro</i> Mammalian Cell Gene Mutation Test	Experiment: In vivo Subject: Mammalian-Animal	Negative

**Conclusion/Summary** : Not available.

#### Carcinogenicity

Product/ingredient name	Result	Species	Dose	Exposure
Fuel oil, residual	Positive - Dermal - TC	Mouse - Male, Female	1000 mg/kg	2 days per week

**Conclusion/Summary** : Not available.

#### Reproductive toxicity

**Conclusion/Summary** : Not available.

#### Teratogenicity

Product/ingredient name	Result	Species	Dose	Exposure
Fuel oil, residual	Positive - Dermal	Rat - Male, Female	0.05 mg/kg	6 hours per day

**Conclusion/Summary** : Not available.

**Specific target organ toxicity (single exposure)**

Not available.

**Specific target organ toxicity (repeated exposure)**

Product/ingredient name	Category	Route of exposure	Target organs
Fuel oil, residual	Category 2	Not determined	Not determined

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**SECTION 11: Toxicological information**

**Aspiration hazard**

Not available.

**Information on the likely routes of exposure** : Not available.

**Potential acute health effects**

**Eye contact** : No known significant effects or critical hazards.

**Inhalation** : Harmful if inhaled.

**Skin contact** : May be harmful in contact with skin. Defatting to the skin. May cause skin dryness and irritation.

**Ingestion** : No known significant effects or critical hazards.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Eye contact** : No specific data.

**Inhalation** : Adverse symptoms may include the following:  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations

**Skin contact** : Adverse symptoms may include the following: irritation  
dryness  
cracking  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations

**Ingestion** : Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations

**Delayed and immediate effects and also chronic effects from short and long term exposure**

**Short term exposure**

**Potential immediate effects** : Not available.

**Potential delayed effects** :

**Long term exposure**

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

Not available.

**Potential chronic health effects**

Product/ingredient name	Result	Species	Dose	Exposure
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**Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - Europe**

Fuel oil, residual	Sub-chronic NOAEL Dermal	Rat - Male, Female	1.06 mg/kg	13 weeks; 5 days per week
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<b>Conclusion/Summary</b>	: Not available.
<b>General</b>	: May cause damage to organs through prolonged or repeated exposure.
<b>Carcinogenicity</b>	: May cause cancer. Risk of cancer depends on duration and level of exposure.
<b>Mutagenicity</b>	:
<b>Teratogenicity</b>	: No known significant effects or critical hazards. Suspected of damaging the unborn child.
<b>Developmental effects</b>	: No known significant effects or critical hazards.
<b>Fertility effects</b>	: Suspected of damaging fertility.

**Other information** : Not available.

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**SECTION 12: Ecological information****12.1 Toxicity**

Product/ingredient name	Species	Result	Exposure
Fuel oil, residual	Algae	Acute EC50 0.75 mg/l Fresh water	72 hours
	Daphnia	Acute EC50 2 mg/l Fresh water	48 hours
	Fish	Acute LC50 79 mg/l Fresh water	96 hours

**Conclusion/Summary** : Not available.

**12.2 Persistence and degradability**

**Conclusion/Summary** : Not available.

**12.3 Bioaccumulative potential**

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Fuel oil, residual	4 to 6	-	high

**12.4 Mobility in soil**

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Mobility** : Not available.

**12.5 Results of PBT and vPvB assessment**

**PBT** : No.  
PBT: Specified

**vPvB** : No.  
vPvB: Specified

**12.6 Other adverse effects** : No known significant effects or critical hazards.

**SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

**13.1 Waste treatment methods****Product**

**Methods of disposal** : The generation of waste should be avoided or minimized wherever possible.  
Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of

**Date of issue/Date of revision** : 1/10/2021

**Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - Europe**

this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

**Hazardous waste** : Yes.

**European waste catalogue (EWC)**

Waste code	Waste designation
13 07 01*	fuel oil and diesel





**Packaging**

**Methods of disposal** : The generation of waste should be avoided or minimized wherever possible.  
: Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions** This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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## SECTION 14: Transport information

	ADR/RID	ADN/ADNR	IMDG	IATA
<b>14.1 UN number</b>	UN3082	UN3082	UN3082	UN3082
<b>14.2 UN proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fuel oil, residual)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fuel oil, residual)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fuel oil, residual). Marine pollutant (Fuel oil, residual)	Environmentally hazardous substance, liquid, n.o.s. (Fuel oil, residual)
<b>14.3 Transport hazard class(es)</b>	9 	9 	9 	9 
<b>14.4 Packing group</b>	III	III	III	III
<b>14.5 Environmental hazards</b>	Yes.	Yes.	Yes.	Yes.
<b>14.6 Special precautions for user</b>	Not available.	Not available.	Not available.	Not available.
<b>Additional information</b>	<b>Hazard identification number</b> 90  <b>Limited quantity</b> 5 L  <b>Special provisions</b> 274 335 601  <b>Tunnel code</b> (E)	-	<b>Emergency schedules (EmS)</b> F-A, S-F	<b>Passenger and Cargo Aircraft</b> Quantity limitation: 450 L Packaging instructions: 964 <b>Cargo Aircraft Only</b> Quantity limitation: 450 L Packaging instructions: 964 <b>Limited Quantities - Passenger Aircraft</b> Quantity limitation: 30 kg Packaging instructions: Y964

**14.7 Transport in bulk** : Not available.  
according to Annex II of MARPOL 73/78 and the IBC Code

## SECTION 15: Regulatory information

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

**EU Regulation (EC) No. 1907/2006 (REACH)**

**Annex XIV - List of substances subject to authorization**

**Substances of very high concern**

None of the components are listed.

**Annex XVII - Restrictions** : Restricted to professional users.

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

**Other EU regulations**

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## SECTION 15: Regulatory information

<b>National Inventory List</b>	: <b>Australia inventory (AICS)</b> : This material is listed or exempted. <b>China inventory (IECSC)</b> : This material is listed or exempted. <b>Japan inventory</b> : Not determined. <b>Korea inventory</b> : Not determined. <b>New Zealand Inventory of Chemicals (NZIoC)</b> : This material is listed or exempted. <b>Philippines inventory (PICCS)</b> : Not determined. <b>United States inventory (TSCA 8b)</b> : This material is listed or exempted. <b>Europe inventory</b> : This material is listed or exempted. <b>Canada inventory</b> : This material is listed or exempted.
<b>Black List Chemicals</b>	: Not listed
<b>Priority List Chemicals</b>	: Not listed
<b>Integrated pollution prevention and control list (IPPC) - Air</b>	: Not listed
<b>Integrated pollution prevention and control list (IPPC) - Water</b>	: Not listed

Product/ingredient name	Carcinogenic effects	Mutagenic effects	Developmental effects	Fertility effects
Fuel oil, residual	Carc. 1B, H350	-	Repr. 2, H361d	Repr. 2, H361f

### International regulations

<b>Chemical Weapons Convention List Schedule I Chemicals</b>	: Not listed
<b>Chemical Weapons Convention List Schedule II Chemicals</b>	: Not listed
<b>Chemical Weapons Convention List Schedule III Chemicals</b>	: Not listed

**15.2 Chemical Safety** : Not available. **Assessment**

## SECTION 16: Other information

Indicates information that has changed from previously issued version.

**Abbreviations and acronyms** : ATE = Acute Toxicity Estimate  
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
DNEL = Derived No Effect Level  
EUH statement = CLP-specific Hazard statement  
PNEC = Predicted No Effect Concentration  
RRN = REACH Registration Number

### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Acute Tox. 4, H332	On basis of test data
Carc. 1B, H350	Expert judgment
Repr. 2, H361fd	Expert judgment
STOT RE 2, H373	Expert judgment
Aquatic Chronic 1, H410	Expert judgment

**SECTION 16: Other information**

**Full text of abbreviated H** : H332 Harmful if inhaled. **statements**  
H350 May cause cancer.

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H410 Very toxic to aquatic life with long lasting effects.

**Full text of classifications [CLP/GHS]** : Acute Tox. 4, H332 ACUTE TOXICITY: INHALATION - Category 4  
Aquatic Chronic 1, H410 AQUATIC TOXICITY (CHRONIC) - Category 1  
Carc. 1B, H350 CARCINOGENICITY - Category 1B  
Repr. 2, H361fd TOXIC TO REPRODUCTION [Fertility and Unborn child] Category 2  
STOT RE 2, H373 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

**Full text of abbreviated R phrases** : R45- May cause cancer.  
R63- Possible risk of harm to the unborn child.  
R20- Also harmful by inhalation.  
R48/20- Also harmful: danger of serious damage to health by prolonged exposure through inhalation.  
R66- Repeated exposure may cause skin dryness or cracking.  
R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Full text of classifications [DSD/DPD]** : Carc. Cat. 2 - Carcinogen category 2  
Repr. Cat. 3 - Toxic to reproduction category 3  
Xn - Harmful  
N - Dangerous for the environment

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