

SAFETY DATA SHEET BLEND CNSL / FUEL

SDS #: C3JQ6ADV8

Section 1. Identification

Product identifier

: BLEND CNSL / FUEL

Relevant identified uses of the substance or mixture and uses advised against

Identified uses

Fuel used in marine applications : diesel engines and boilers. Formulation & (re)packing of substances and mixtures - Industrial Use as a fuel - Industrial Use as a fuel - Professional

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Supplier's details

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Emergency telephone number (with hours of operation)

Asia-Pacific: +65 3158 1074

Section 2. Hazards identification

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Classification of the	: ACUTE TOXICITY (inhalation) - Category 4
substance or mixture	SKIN CORROSION/IRRITATION - Category 2
	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
	SKIN SENSITIZATION - Category 1
	GERM CELL MUTAGENICITY - Category 2
	CARCINOGENICITY - Category 1B
	TOXIC TO REPRODUCTION - Category 2
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
	AQUATIC HAZARD (ACUTE) - Category 1
	AQUATIC HAZARD (LONG-TERM) - Category 1

GHS label elements, including precautionary statements

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Hazard pictograms



Signal word

: Danger



Hazard statements	:	 Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Harmful if inhaled. Suspected of causing genetic defects. May cause cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. (blood, liver, thymus) Very toxic to aquatic life with long lasting effects.
Precautionary statements		
Prevention	:	Detain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Do not breathe vapor. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, protective clothing, eye protection, face protection, or hearing protection.
Response	:	Collect spillage. IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Storage	:	Store locked up.
Disposal	1	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other hazards which do not result in classification	:	Vapors may form explosive mixtures with air. Vapor may be irritating to eyes and respiratory system. Contact with hot material causes thermal skin burns. Hydrogen sulphide can accumulate in the head space of storage tanks containing this product and can reach potentially hazardous concentrations Hazard of slipping on spilled product.

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Ingredient name	% (w/w)	Identifiers
Fuel oil, residual	≥70	CAS: 68476-33-5 EC: 270-675-6
(Technical Grade)	\$30	EC: 941-216-3
Additional information Contains: Sulphur or Sulfur (<0.5%)		

ntains: Sulphur, or Sulfur (<0.5%) Hydrogen sulphide can accumulate in the head space of storage tanks containing this product and can reach potentially hazardous concentrations Component: % (v/v)

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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

: Not applicable.



Section 4. First aid measures

Description of necessary firs	<u>t aid measures</u>
Eye contact	: Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician.
Inhalation	: Set medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that vapors 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. 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.
Skin contact	: Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. 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. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. 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.

Most important s	vm	ptoms/effects,	acute	and	dela	ved
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Potential acute health effects	
Eye contact :	Causes serious eye damage.
Inhalation :	Harmful if inhaled.
Skin contact :	Causes skin irritation. May cause an allergic skin reaction.
Ingestion :	No known significant effects or critical hazards.
Over-exposure signs/sympton	<u>ns</u>
Eye contact :	Vapor may be irritating to eyes and respiratory system. May cause mild reversible eye irritation. watering redness Risk of burns (if the product is hot)
Inhalation :	respiratory tract irritation Can cause central nervous system (CNS) depression. nausea or vomiting headache drowsiness/fatigue dizziness/vertigo Intoxication (Hydrogen sulphide)
Skin contact :	Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/ or dermatitis. Risk of burns (if the product is hot)



Ingestion	:	Not an expected route of exposure. nausea or vomiting stomach pains diarrhea
Indication of immediate me	<u>dica</u>	l attention and special treatment needed, if necessary
Notes to physician	:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	:	No specific treatment.
Protection of first-aiders	:	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.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media		
Suitable extinguishing media	: or U la Fo	n small fires: se dry chemical, CO₂, alcohol-resistant foam or water spray (fog). Sand. irge fires: oam, Water fog (trained personnel only)
Unsuitable extinguishing media	: D Si de	o not use a solid water stream as it may scatter and spread fire. imultaneous use of foam and water on the same surface is to be avoided as water estroys the foam.
Specific hazards arising from the chemical	: In TI co di	a fire or if heated, a pressure increase will occur and the container may burst. his material is very toxic to aquatic life with long lasting effects. Fire water ontaminated with this material must be contained and prevented from being ischarged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: 🗭 ca su fu	arbon dioxide (CO ₂). arbon monoxide ulfur oxides (SO ₂ , SO ₃ etc.) ımes
Special protective actions for fire-fighters	: Pi th su	romptly isolate the scene by removing all persons from the vicinity of the incident if here is a fire. No action shall be taken involving any personal risk or without uitable training.
Special protective equipment for fire-fighters	: Fi br cc cł Cł	ire-fighters should wear appropriate protective equipment and self-contained reathing apparatus (SCBA) with a full face-piece operated in positive pressure node. Clothing for fire-fighters (including helmets, protective boots and gloves) onforming to European standard EN 469 will provide a basic level of protection for hemical incidents. Gloves made of PVA are not water-resistant, and are not suitable for emergency se
Remark	: No co	ot considered explosive based on chemical structure and oxygen balance onsiderations



Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	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. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. 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.
For emergency responders		Gloves made of PVA are not water-resistant, and are not suitable for emergency
		use See Section 8 of the safety data sheet (personal protective equipment). See also the information in "For non-emergency personnel". In an emergency or for exceptional short-lasting jobs in an atmosphere polluted by the product, it is necessary to wear protective respiratory equipment.: Self-contained breathing apparatus.
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.
Methods and materials for co	ont	ainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. 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. 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. 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

Section 7. Handling and storage

Precautions for safe handling	
Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. 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.



Conditions for safe storage, including any incompatibilities	: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. 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. See Section 10 for incompatible materials before handling or use.
	If the working temperature is higher than the flash point: Ground and bond container and receiving equipment.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

None.

Biological exposure indices

No exposure indices known.

No exposure indices known.	
Advisory OEL	: Hydrogen sulphide (EU): OEL = 7 mg/m3, 5ppm (8 h), 14 mg/m3, 10ppm (short- time). (US) ACGIH: TLV-TWA = 1ppm, 1.4 mg/m3/ TLV-STEL = 5ppm, 7mg/m3. NIOSH: REL = 10ppm, 10 minute ceiling. IDHL = 100ppm
Appropriate engineering controls	: 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.
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.
Individual protection measur	<u>es</u>
Hygiene measures	: 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. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Work helmet with face shield and neck cloth (full head protection) Tightly-fitting goggles.
Skin protection	
Hand protection	 Hydrocarbon-proof gloves for aromatic hydrocarbons. Glove material: nitrile rubber, neoprene rubber Wear suitable gloves tested to EN374. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Hydrocarbon-proof gloves Gloves made of PVA are not water-resistant, and are not suitable for emergency use Gloves anti-heat for the liquefied product (EN 407, level 1). Neoprene gloves. nitrile rubber Wear suitable gloves tested to EN374. Note
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Please observe the instructions regarding permeability and breakthrough time which

	are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
Body protection	: disposable overall Chemical-resistant protective suit. Non-skid safety shoes or boots Wear rubber boots.
Respiratory protection	 Maintain adequate ventilation Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Respirator with combination filter for vapor/particulate Type A/P2 To enter tankers, tanks, reservoirs where the oxygen content is too low, wear insulating respiratory protection equipment shall be used in spaces where hydrogen sulphide may accumulate: full face mask with cartridge/filter type "B" (grey for inorganic vapours including H2S) or self-contained breathing apparatus (SCBA). (EN 529) The use of breathing apparatus must comply strictly with the manufacturer's instructions and the regulations governing their choices and uses

Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature (20°C / 68°F) and pressure (1013 hPa) unless otherwise indicated

<u>Appearance</u>					
Physical state	:	Liquid. [Viscous]			
Color	1	Brown. dark green or dark brown Black.			
Odor	:	Hydrocarbon-like			
Odor threshold	:	Not available.			
рН	:	Not applicable.			
Melting point/freezing point	:	30°C (<86°F) [ISO 3016]			
Pour point	:	<30°C (<86°F)			
Boiling point	:	160 to 750°C (320 to 1382°F) [EN 15199]			
Flash point	:	Closed cup: >60°C (>140°F) [ASTM D 93]			
Evaporation rate	:	Not applicable.			
Flammability (solid, gas)	:	Not available.			
Lower and upper explosive (flammable) limits	:	Lower: 0.5% Upper: 5%			
Vapor pressure	:	>0.5 kPa (>3.7503 mm Hg)			
Vapor density	:	>5 [Air = 1]			
Relative density	:	0.84 to 1.1 [ISO 12185]			
Density	:	0.84 to 1.1 g/cm³ [15°C] [ISO 12185]			
Solubility(ies)	:				
Media		Result			
water		Not soluble			
Miscible with water	:	No.			
Solubility in water	:	0.0004 g/l			
Partition coefficient: n- octanol/water	:	1.99 to 18.02 [Calculated]			
Auto-ignition temperature	:	>380°C (>716°F) [DIN 51794]			



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Decomposition temperature Viscosity	:	Not available. Øynamic (room temperature): Not available. Kinematic (room temperature): Not available. Kinematic (40°C (104°F)): >20.5 mm²/s (>20.5 cSt) [EN 3104]
Flow time (ISO 2431)	:	Not available.
Particle characteristics		
Median particle size		: Not applicable.

Section 10. Stability and reactivity

Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	Stable under recommended storage and handling conditions (see Section 7).
Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	:	heat, open flames, sparks and static discharge
Incompatible materials	:	strong acids Strong oxidizing agents Halogens
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

: Not available.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

SADT

Product/substance	Result	Species	Dose	Exposure	Test
F uel oil, residual	LC50 Inhalation Dusts and mists	Rat - Male, Female	4.1 mg/l	4 hours	OECD 403
	LD50 Dermal	Rabbit - Male, Female	>2000 mg/kg	-	OECD 434
	LD50 Oral	Rat	4320 mg/kg	-	OECD 401
Conclusion/Summary	: Based on available data	a, the classificat	ion criteria are	met.	

Irritation/Corrosion	
Conclusion/Summary	
Skin	: Based on available data, the classification criteria are met.
Eyes	: Based on available data, the classification criteria are met.
Respiratory	: Based on available data, the classification criteria are not met.
Sensitization	
Conclusion/Summary	
Skin	: Based on available data, the classification criteria are met.
Respiratory	: Based on available data, the classification criteria are not met.
<u>Mutagenicity</u>	
Conclusion/Summary	: Based on available data, the classification criteria are met.
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Carcinogenicity

Product/substance	Result	Species	Dose	Exposure
Fuel oil, residual	Positive - Dermal - TD	Mouse	-	-
Conclusion/Summary	: Based on available data	, the classification	criteria are met.	
Reproductive toxicity				
Conclusion/Summary	: Based on available data	, the classification	criteria are not m	et.
Teratogenicity				
Product/substance	Result	Species	Dose	Exposure
Fuel oil, residual	Positive - Dermal	Rat	-	-
Conclusion/Summary	: Based on available data	, the classification	criteria are met.	
<u>Specific target organ toxic</u>	<u>ity (single exposure)</u>			
Not available.				
Conclusion/Summary	: Based on available data	, the classification	criteria are not m	et.
<u>Specific target organ toxic</u>	<u>ity (repeated exposure)</u>			
Namo		Catogory	Pouto of	Target organs

Name			Category	Route of exposure	Target organs			
Fuel oil, residual			Category 2	-	blood, liver, thymus			
Conclusion/Summary	:	Based on available data, t	he classification	criteria are met.				
Aspiration hazard								
Not available.								
Conclusion/Summary	:	Based on available data, t	he classification	i criteria are not me	t.			
Information on the likely routes of exposure	:	Not available.						
Potential acute health effect	t <mark>s</mark>							
Eye contact	:	Causes serious eye dama	ige.					
Inhalation	:	Harmful if inhaled.	armful if inhaled.					
Skin contact	:	Causes skin irritation. Ma	auses skin irritation. May cause an allergic skin reaction.					
Ingestion	- 1	No known significant effec	lo known significant effects or critical hazards.					
Symptoms related to the ph	ysio	cal, chemical and toxicolo	gical characte	ristics				
Eye contact	:	Vapor may be irritating to May cause mild reversible watering redness Risk of burns (if the produ	eyes and respira eye irritation. uct is hot)	atory system.				
Inhalation	:	respiratory tract irritation Can cause central nervou nausea or vomiting headache drowsiness/fatigue dizziness/vertigo Intoxication (Hydrogen sul	s system (CNS) lphide)	depression.				
Skin contact	:	Prolonged or repeated con or dermatitis. Risk of burns (if the produ	ntact can defat t uct is hot)	he skin and lead to	irritation, cracking and/			



Ingestion

: Not an expected route of exposure. nausea or vomiting stomach pains diarrhea

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

:	Not available.
:	Not available.
:	Not available.
	:

Potential delayed effects : Not available.

Potential chronic health effects

Product/substance	Result	Species	Dose	Exposure		
Fuel oil, residual	Sub-chronic NOAEL Dermal	Rat	1 mg/kg Read across	-		
Cashew (Anacardium occidentale) Nutshell Extract, Decarboxylated (Technical Grade)	Sub-chronic NOAEL Oral	Rat	150 mg/kg	-		
General	: May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.					
Carcinogenicity	: May cause cancer. Risk of cancer depends on duration and level of exposure.					

- Mutagenicity : Suspected of causing genetic defects.
- **Reproductive toxicity** : Suspected of damaging fertility or the unborn child.

Numerical measures of toxicity

Acute toxicity estimates

Product/substance	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
ELEND CNSL / FUEL	5000	11000.0	N/A	N/A	4.6
Fuel oil, residual	4320	N/A	N/A	N/A	4.1
Cashew (Anacardium occidentale) Nutshell Extract, Decarboxylated (Technical Grade)	500	1100	N/A	N/A	N/A

Other information

Not available.

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Section 12. Ecological information

Very toxic to aquatic life with long lasting effects.

Toxicity

Product/substance	Result	Species	Exposure	Test
Fuel oil, residual	Acute EL50 0.32 mg/l	Algae -	72 hours	OECD 201
	Fresh water	Pseudokirchnerella subcapitata		
	Acute EL50 0.22 mg/l	Crustaceans - Daphnia magna	48 hours	OECD 202
	Acute LL50 79 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours	OECD 203
	Chronic NOELR 0.05 mg/l Fresh water	Algae - Pseudokirchnerella subcapitata	72 hours	OECD 201
Cashew (Anacardium occidentale) Nutshell Extract, Decarboxylated (Technical Grade)	Acute LL50 >1000 mg/l Marine water	Fish - Cyprinodon variegatus	96 hours	OECD 203
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Conclusion/Summary

: Not available.

Persistence/degradability

Product/substance	Aquatic half-life	Photolysis	Biodegradability
Fuel oil, residual Cashew (Anacardium occidentale) Nutshell Extract, Decarboxylated (Technical Grade)	-	-	Readily Inherent

Bioaccumulative potential

Product/substance	LogKow	BCF	Potential
BLEND CNSL / FUEL Fuel oil, residual Cashew (Anacardium occidentale) Nutshell Extract, Decarboxylated (Technical Grade)	1.99 to 18.02 1.99 to 18.02 6.2	- 0.4 to 71100 -	High High High

Mobility in soil	
Soil/water partition coefficient (Koc)	: Not available.
Mobility in soil	: Given its physical and chemical characteristics, the product generally shows low soil mobility Loss by evaporation is limited
Other adverse effects	: No known significant effects or critical hazards.



Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of 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. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 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.

Section 14. Transport information

	UN	IMDG	ICAO/IATA	ADR/RID	ADN
UN/ID No	UN3082	UN3082	UN3082	UN3082	UN3082
UN proper shipping name	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)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fuel oil, residual)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fuel oil, residual)
Transport hazard class (es)	9	9	9	9	9
Packing group	111	111		111	
Environmental hazards	Yes.	Yes.	Yes.	Yes.	Yes.

Additional information

UN	 This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. Special provisions 274, 331, 335, 375
IMDG	 This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. <u>Emergency schedules</u> F-A, S-F <u>Special provisions</u> 274, 335, 969
ICAO/IATA	 This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8. <u>Quantity limitation</u> Passenger and Cargo Aircraft: 450 L. Packaging instructions: 964. Cargo Aircraft Only: 450 L. Packaging instructions: 964. Limited Quantities - Passenger Aircraft: 30 kg. Packaging instructions: Y964. <u>Special provisions</u> A97, A158, A197, A215



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: This product is not regulated as a dangerous good when transported in sizes of ≤5 L ADR/RID or ≤ 5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. Hazard identification number 90 Limited quantity 5 L Special provisions 274, 335, 601, 375 Tunnel code (-) **ADN** : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. Special provisions 274, 335, 375, 601 Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available. to IMO instruments

Section 15. Regulatory information

Singapore - hazardous chemicals under government control None.

National regulations

This Safety Data Sheet (SDS) has been prepared according to Singapore Standard SS 586 on "Specification for Hazard Communication for Hazardous Chemicals and Dangerous Goods"

Workplace Safety and Health (General Provision) Regulations

International regulations

<u>Chemical Weapon Convention List Schedules I, II & III Chemicals</u> Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants Not listed.

Rotterdam Convention on Prior Informed Consent (PIC) Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals Not listed.

Inventory list

Australia inventory (AIIC) Canada inventory (DSL/NDSL) China inventory (IECSC) Europe inventory (EC) Japan inventory

- : Not determined.
- : Not determined.
- : Not determined.
- : All components are listed or exempted.
- : Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined.

New Zealand Inventory of Chemicals (NZIoC) Philippines inventory (PICCS) : Not determined. : Not determined.



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Korea inventory (KECI)	: Not determined.		
Taiwan Chemical Substances Inventory (TCSI)	: Not determined.		
Thailand inventory	: Not determined.		
Turkey inventory	: Not determined.		
United States inventory (TSCA 8b)	: Not determined.		
Vietnam inventory	: Not determined.		
The information stated in this section relates solely to the conformity of the chemical product with the			

The information stated in this section relates solely to the conformity of the chemical product with the countries Inventories. The information used to confirm the inventory status of this product may be based on additional data to the chemical composition shown in Section 3. Other regulations may apply for importation or marketing authorizations.

Section 16. Other information

<u>History</u>	
Date of revision	: 2024/07/16
previous revision date	: 2024/02/20
Version	: 1.02
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group UN = United Nations

Procedure used to derive the classification

Classification	Justification
CUTE TOXICITY (inhalation) - Category 4	Calculation method
SKIN CORROSION/IRRITATION - Category 2	Calculation method
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1	Calculation method
SKIN SENSITIZATION - Category 1	Calculation method
GERM CELL MUTAGENICITY - Category 2	Calculation method
CARCINOGENICITY - Category 1B	Calculation method
TOXIC TO REPRODUCTION - Category 2	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2	Calculation method
AQUATIC HAZARD (ACUTE) - Category 1	Calculation method
AQUATIC HAZARD (LONG-TERM) - Category 1	Calculation method

References

: Not available.

✓ Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.