

SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

BLEND CNSL WITH GASOIL 0.1% BASE

SDS #: C3JU7U0PS

previous revision date : No previous validation

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier

Product name UFI : BLEND CNSL WITH GASOIL 0.1% BASE

: KPF9-V390-V005-VAXV

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

Identified uses		
Fuel for diesel engines vessel, boat		
Formulation & (re)packing of substances and mixtures - Industrial		
Use as a fuel - Industrial		
Use as a fuel - Professional		
Use as a fuel - Consumer		

1.3 Details of the supplier of the safety data sheet

TotalEnergies Marketing France 562 avenue du parc de l'île 92000 Nanterre FRANCE Tel: +33 (0)1 41 35 40 00 rm.mkefr-fds@totalenergies.com

Contact

H.S.E

1.4 Emergency telephone number

National advisory body/Poison Center

Telephone number	 France - ORFILA (INRS) Tél : +33 (0)1 45 42 59 59 In France - Poison centers: ANGERS : 02 41 48 21 21 BORDEAUX : 05 56 96 40 80 LILLE : 08 00 59 59 59 LYON : 04 72 11 69 11 MARSEILLE : 04 91 75 25 25 NANCY : 03 83 22 50 50 PARIS : 01 40 05 48 48 STRASBOURG : 03 88 37 37 37 TOULOUSE : 05 61 77 74 47
<u>Supplier</u>	

Telephone number: Emergency phone: +44 1235 239670



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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Carc. 2, H351 STOT RE 2, H373 (bone marrow, liver, thymus) Asp. Tox. 1, H304 Aquatic Chronic 2, H411 The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended. See Section 16 for the full text of the H statements declared above.

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

2.2 Label elements

Hazard pictograms



Signal word	: Danger
Hazard statements	 H226 - Flammable liquid and vapor. H302 + H332 - Harmful if swallowed or if inhaled. H304 - May be fatal if swallowed and enters airways. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H318 - Causes serious eye damage. H351 - Suspected of causing cancer. H373 - May cause damage to organs through prolonged or repeated exposure. (bone marrow, liver, thymus) H411 - Toxic to aquatic life with long lasting effects.
Precautionary statements	
Prevention	 P273 - Avoid release to the environment. P260 - Do not breathe gas, vapor or spray. P280 - Wear protective gloves, protective clothing and eye or face protection.
Response	 P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. P331 - Do NOT induce vomiting. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Storage	: Not applicable.
Disposal	 P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Contains	 Fuels, diesel Cashew (Anacardium occidentale) Nutshell Extract, Decarboxylated (Technical Grade)
Supplemental label elements	: Not applicable.



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Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

2.3 Other hazards

This mixture does not contain any substances that are assessed to be a PBT or a vPvB in a concentration >= 0,1 %. This product does not contain any substance present at a concentration equal to or greater than 0.1% by mass, included in the list drawn up in accordance with article 59, paragraph 1 of the REACh Regulation, due to its endocrine disrupting properties, or a substance known to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation 2018/605.

Other hazards which do
not result in classification: The product may form flammable mixtures with air when heated above the flash
point.
In the presence of hot spots, there is a special risk of fire or explosion under certain
conditions involving accidental release of vapor or leaks of product under pressure.
Hazard of slipping on spilled product.
Vapor may be irritating to eyes and respiratory system.
High vapor concentrations can cause headaches, dizziness, drowsiness and nausea
and may lead to unconsciousness.
If swallowed accidentally, the product may enter the lungs due to its low viscosity
and lead to the rapid development of very serious pulmonary lesions (medical
survey during 48 hours)
Combustible liquid

SECTION 3: Composition/information on ingredients

3.2 Mixtures	: Mixture				
Product/substance	Identifiers	% (w/w)	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Fuels, diesel	REACH #: 01-2119484664-27 EC: 269-822-7 CAS: 68334-30-5	≥70	Flam. Liq. 3, H226 Acute Tox. 4, H332 Skin Irrit. 2, H315 Carc. 2, H351 STOT RE 2, H373 (bone marrow, liver, thymus) Asp. Tox. 1, H304 Aquatic Chronic 2, H411	ATE [Inhalation (dusts and mists)] = 4.1 mg/l	[1]
Cashew (Anacardium occidentale) Nutshell Extract, Decarboxylated (Technical Grade)	REACH #: 01-2119502450-57 EC: 941-216-3	≤30	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 See Section 16 for the full text of the H statements declared above.	ATE [Oral] = 500 mg/kg ATE [Dermal] = 1100 mg/kg	[1]

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Additional information

: Contains: Dye and fiscal marker May contain: multi-purposes additives to boost performance Contains: Mixture of C16-C18 fatty acids methyl esters 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, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

<u>Туре</u>

[1] Substance classified with a health or environmental hazard

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

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	: Check for and remove any contact lenses. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention.
Inhalation	 Inhalation is unlikely because of the low vapour pressure of the substance at ambient temperature. Exposure to vapours may however occur when the substance is handled at high temperatures with poor ventilation. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Seek immediate medical attention/advice. 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	 Immediately remove any contaminated clothing, shoes or socks. Wash contaminated skin with soap and water. Continue to rinse for at least 10 minutes. Get medical attention if symptoms appear. Wash clothing before reuse. Clean shoes thoroughly before reuse. High pressure injection of the products under the skin may have very serious consequences even though no symptom or injury may be apparent. In this case, the casualty should be sent immediately to hospital.
Ingestion	 Take victim immediately to hospital. SYMPTOMS MAY NOT APPEAR IMMEDIATELY. Wash out mouth with water. Keep person warm and at rest. Aspiration hazard if swallowed. Can enter lungs and cause damage. 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. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders	 First aid personnel must be aware of personal risk during rescue! Put on appropriate personal protective equipment (see Section 8). Before attempting to rescue casualties, isolate area from all potential sources of ignition including disconnecting electrical supply. Ensure adequate ventilation and check that a safe, breathable atmosphere is present before entry into confined spaces. CAUTION! Hazard of slipping on spilled product. IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.

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Eye contact	: May cause mild reversible eye irritation. watering redness
nhalation	 In case of exposure to hot product, inhalation of vapors in high concentration macause irritation of respiratory system. Can cause central nervous system (CNS) depression. nausea or vomiting headache dizziness/vertigo convulsive seizures cardiac arrhythmia Loss of coordination
Skin contact	: Causes skin irritation.
ngestion	: nausea or vomiting stomach pains diarrhea Can cause central nervous system (CNS) depression.

Notes to physician	: Aspiration hazard if swallowed. In this case, the product may enter the lungs and
	lead to the rapid development of very serious pulmonary lesions that may appear in
	the following hours. Seek immediate medical attention. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media	
Suitable extinguishing media	 on small fires: Use dry chemical, CO₂, water spray (fog) or foam. Sand. large fires: Foam, Water fog (trained personnel only)
Unsuitable extinguishing media	: Do not use a solid water stream as it may scatter and spread fire. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam.
5.2 Special hazards arising f	from the substance or mixture

Hazards from the	: Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard.
substance or mixture	In a fire or if heated, a pressure increase will occur and the container may burst, with
	the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.



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Hazardous combustion products	 Decomposition products may include the following materials: Carbon dioxide (CO₂). carbon monoxide nitrogen oxides (NO, NO₂ etc.) various hydrocarbons Aldehyde. Soot These maybe highly dangerous if inhaled in confined spaces or at high concentration. If sulphur compounds are present in appreciable amounts, combustion products may include also H2S and SOx (sulfur oxides) or sulfuric acid
5.3 Advice for firefighters	
Special protective actions for fire-fighters	: 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. Move containers from fire area if this can be done without risk. Use water to cool tanks and parts exposed to the thermal flux not caught up in the flames.
Special protective equipment for fire-fighters	 In case of a large fire or in confined or poorly ventilated spaces, wear full fire resistantprotective clothing and self-contained breathing apparatus (SCBA) with a full face-pieceoperated in positive pressure mode.
Additional information	: Not considered explosive based on chemical structure and oxygen balance considerations

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures			
For non-emergency personnel	 No action shall be taken involving any personal risk or without suitable training. Only allow access to authorised persons. Do not touch or walk through spilled material. Hazard of slipping on spilled product. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. 		
For emergency responders	: If specialized 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".		
6.2 Environmental precautions	: Toxic to aquatic life with long lasting effects. 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). It may contaminate ground water.		
6.3 Methods and materials for	containment and cleaning up		
Small spill	: Stop leak if without risk. Move containers from spill area.		



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Large spill	: Stop leak if without risk. Cover discharges with foam in order to reduce the risks of ignition. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Use spark-proof tools and explosion-proof equipment. 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.
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

7.1 Precautions for safe handling

Protective measures	 Put on appropriate personal protective equipment (see Section 8). Avoid contact with eyes, skin and clothing. Avoid breathing vapor. Never siphon by mouth. Manipulate in a well-ventilated area. Ensure ventilation is adequate if there is a risk of aerosol formation or vapor build-up. 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. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Avoid release to the environment.
Advice on general occupational hygiene	: After handling, always wash hands thoroughly with soap and water. Take off immediately all contaminated clothing and wash it before reuse. Provide regular cleaning of equipment, work area and clothing. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Hazard of slipping on spilled product.

7.2 Conditions for safe storage, including any incompatibilities

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. Keep 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.

OPERATE ONLY ON COLD AND DEGASSED TANKS IN VENTILATED PREMISES (TO AVOID RISK OF EXPLOSION). Never weld any container or empty pipe that has not been degassed.

Before entering storage tanks and commencing any operation in a confined area, check the atmosphere for oxygen content and flammability.

Ensure all equipment is electrically grounded before beginning transfer operations.

Design installations (machinery and equipment) to prevent burning product from spreading (tanks, retention systems, interceptors (traps) in drainage systems). Friction generated by product discharge can create static charges of sufficient magnitude to cause SPARKS WHICH MAY LEAD TO FIRE OR EXPLOSION.

Storage installations should be designed with adequate bunds so as to prevent ground orwater pollution in case of leaks or spills.

Prevent leaks and prevent soil/water pollution caused by leaks. Take all necessary precautions to prevent water from entering the containers, tanks, transfer lines etc...

Use only containers, seals, pipes, etc... made in a material suitable for use with aromatic hydrocarbons. Recommended materials for containers, or container linings: Mild steel, Stainless steel. High density polyethylene



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(HDPE). Some synthetic materials may be unsuitable for containers or container linings depending on the material specification and intended use. Compatibility should be checked with the manufacturer.

If the working temperature is higher than the flash point : Ground and bond container and receiving equipment. Keep in a bunded area

Seveso Directive - Reporting thresholds

Named substances

	Notification and MAPP threshold	Safety report threshold
GAS OIL - Category 34	2500 tonne	25000 tonne

7.3 Specific end use(s)

Recommendations	: See exposure scenarios
Industrial sector specific solutions	: Not applicable.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

Reportable hazardous constituent(s) contained in UVCB and/or multi-constituent substance(s) complying with the classification criteria and/or with an exposure limit (OEL)

No exposure limit value known.

Biological Limit Values (BLV)

No exposure indices known.

Recommended monitoring : Not applicable. **procedures**

Advisory OEL : Not applicable.

DNELs/DMELs

Product/substance	Туре	Exposure	Value	Population	Effects
Fuels, diesel	DNEL	Long term Oral	1.25 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	1.25 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	2.91 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	20.22 mg/ m ³	General population	Systemic
	DNEL	Long term Inhalation	68.34 mg/ m³	Workers	Systemic
	DNEL	Short term Inhalation	2572.8 mg/ m ³	General population	Systemic
	DNEL	Short term Inhalation	0.1027 μg/ m³	Workers	Systemic
	DNEL	Short term Dermal	5.55 mg/ kg bw/day	General population	Systemic
	DNEL	Short term Dermal	11.11 mg/ kg bw/day	Workers	Systemic
Cashew (Anacardium occidentale)	DNEL	Long term	7.41 mg/m ³	Workers	Systemic



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Nutshell Extract, Decarboxylated (Technical Grade)		Inhalation			
	DNEL	Long term Dermal	2.1 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1.3 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	750 µg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	750 µg/kg bw/day	General population	Systemic

PNECs

Product/ingredient name	Compartment Detail	Name	Method Detail
Fuels, diesel	Fresh water	21 µg/l	-
Cashew (Anacardium occidentale) Nutshell Extract, Decarboxylated (Technical Grade)	Fresh water	9.26 µg/l	-
	Marine water	926 ng/l	-
	Sewage Treatment	100 mg/l	-
	Plant	-	
	Fresh water sediment	5 mg/kg dwt	-
	Marine water sediment	500 µg/kg dwt	-
	Soil	139.24 mg/kg dwt	-
	Secondary Poisoning	33.13 mg/kg	-

8.2 Exposure controls

 Ensure adequate ventilation and check that a safe, breathable atmosphere is present before entry into confined spaces. Explosive atmosphere in confined spaces. Check that the vapor concentration is lower than the lower flammability limit (explosimeter,).
ures
: See section 7.1.
: Goggles, face shield or other full-face protection should be worn if there is a risk of direct exposure to aerosols or splashes. Ensure that eyewash stations and safety showers are close to the workstation location.
 Hydrocarbon-proof gloves for aromatic hydrocarbons. 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. Note: Gloves made of PVA are not water-resistant, and are not suitable for emergency use.
Repeated or prolonged exposure: Glove material: polyvinyl alcohol (PVA); any thickness; Break through time > 480 min; standard : EN 374 Glove material: Fluorinated rubber; any thickness; Break through time > 480 min; standard : EN 374 Glove material: Nitrile rubber; Glove thickness > 0.5 mm; Break through time > 480 min; standard : EN 374 In case of contact through splashing: Glove material: Neoprene; Glove thickness > 0.75 mm; Break through time > 60 min; standard : EN 374



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Glove material: polyvinyl chloride (PVC); Glove thickness > 1.3 mm; Break three	ough
time > 30 min; standard : EN 374	

Body protection	: 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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. Antistatic non-skid safety shoes or boots
Respiratory protection	: 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. In case of insufficient ventilation, wear suitable respiratory equipment. When using

a mask or half mask : Full face piece respirator with organic vapor/acid gas cartridge or canister, Type A. Respirator with combination filter for vapor/particulate, Type A/P2. In an emergency or for exceptional short-lasting jobs in an atmosphere polluted by the product, it is necessary to wear protective respiratory equipment. To enter tankers, tanks, reservoirs where the oxygen content is too low, wear insulating respiratory apparatus. The use of breathing apparatus must comply strictly with the manufacturer's instructions and the regulations governing their choices and uses.

Environmental exposure : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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

9.1 Information on basic physical and chemical properties

<u>Appearance</u>			
Physical state	: 1	Liquid. [limpid]	
Color	: 1	Blue. to Green.	
Odor	: (Characteristic.	
рН	: 1	Not applicable.	Product is non-soluble (in water).
Melting point/freezing point	: •	<30°C [ISO 3016]	
Initial boiling point and boiling range	:	150 to 380°C [ISO 3405]	
Flash point	: (Closed cup: ≥60°C [ISO 2719]	
Flammability		Non-flammable in the presence flames, sparks and static disch	e of the following materials or conditions: open arge.
Lower and upper explosion limit		Lower: 0.5% Upper: 5%	
Vapor pressure	: •	<0.13 kPa	
Vapor pressure 37.8°C (100°F)	: •	<1 kPa	
Vapor density	: 3	>5 [Air = 1]	
Relative density	: (0.89 [ISO 12185]	
Density	: (0.89 g/cm³ [15°C] [ISO 12185]	
Solubility(ies)	:		
Media		Result	
water		Not soluble	



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Solubility in water	:	0.0004 g/l
Miscible with water	:	No.
Partition coefficient: n-octanol/ water	:	Not applicable. [Calculated]
Auto-ignition temperature	:	>250°C [ASTM E 659]
Decomposition temperature	:	Not available.
Viscosity	:	Kinematic (40°C): 2 to 6 mm²/s [EN 3104]
Particle characteristics		
Median particle size	:	Not applicable.
9.2 Other information		
Pour point	:	<30°C (<86°F)
Explosive properties	:	Not considered explosive based on chemical structure and oxygen balance considerations
Oxidizing properties	:	This product is not considered oxidising based on chemical structure considerations

SECTION 10: Stability and reactivity

10.1 Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	:	Stable under recommended storage and handling conditions (see Section 7).
10.3 Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	:	Avoid all possible sources of ignition (spark or flame). Take precautionary measures against static discharges.
10.5 Incompatible materials	:	Reactive or incompatible with the following materials: strong acids Strong oxidizing agents Strong bases Halogens
10.6 Hazardous decomposition products	:	Use as a fuel.: Carbon dioxide (CO ₂). carbon monoxide, nitrogen oxides (NO, NO ₂ etc.), various hydrocarbons, Aldehyde. Soot.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 <u>Acute toxicity</u>



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Product/substance	Result	Species	Dose	Exposure	Test
Fuels, diesel	LC50 Inhalation Dusts and mists	Rat - Male, Female	4.1 mg/l	4 hours	OECD 403
	LD50 Dermal	Rabbit - Male, Female	>4300 mg/kg	-	OECD 434
	LD50 Oral	Rat - Male, Female	>5000 mg/kg	-	OECD 401

Acute toxicity estimates

Product/substance	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
BLEND CNSL WITH GASOIL 0.1% BASE	1667.2	3667.9	N/A	N/A	4.1
Fuels, diesel	N/A	N/A	N/A	N/A	4.1
Cashew (Anacardium occidentale) Nutshell Extract, Decarboxylated (Technical Grade)	500	1100	N/A	N/A	N/A

Conclusion/Summary : Based on available data, the classification criteria are met.

Irritation/Corrosion

Product/substance	Result	Species	Score	Exposure	Test
Fuels, diesel	Skin - Edema	Rabbit	3.9	24 hours	OECD 404
	Skin - Erythema/Eschar	Rabbit	2.96	24 hours	OECD 404
Conclusion/Summary					
Skin	: Based on available data, the	classification cr	iteria are	met.	
Eyes	: Based on available data, the	classification cr	iteria are	met.	
Respiratory	: Based on available data, the	classification cr	iteria are	not met.	
Sensitization					
Conclusion/Summary					
Skin	: Based on available data, the	classification cr	iteria are	met.	
Respiratory	: Based on available data, the	classification cr	iteria are	not met.	
<u>Mutagenicity</u>					
Conclusion/Summary	: Based on available data, the	classification cr	iteria are	not met.	
Carcinogenicity					

Carcinogenicity

Product/substance	Result	Species	Dose	Exposure		
Fuels, diesel	Positive - Dermal - TC	Mouse	-	2 years		
Conclusion/Summary	: Based on available data, the	e classification crite	ria are met.	-		
Reproductive toxicity						
Conclusion/Summary	: Based on available data, the classification criteria are not met.					
<u>Teratogenicity</u>	eratogenicity					
Conclusion/Summary	: Based on available data, the classification criteria are not met.					
<u>Specific target organ toxicity (single exposure)</u>						
Conclusion/Summary	: Based on available data, the classification criteria are not met.					
Specific target organ toxicity (repeated exposure)						



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Product/substance		C	ategory	Route of exposure	Target organs
Fuels, diesel		Categ	jory 2	-	bone marrow, liver, thymus
Conclusion/Summary	: Based on available of	data, the clas	sification c	iteria are met.	
Aspiration hazard					
Prod	uct/substance			Result	t
Fuels, diesel			ASPIRAT	ON HAZARD - Ca	ategory 1
Conclusion/Summary : Based on available data, the classification criteria are met.					
nformation on the likely outes of exposure	: Not available.				
Potential acute health effec	<u>ts</u>				
Eye contact	: Causes serious eye	damage.			
Inhalation	: Harmful if inhaled.				
Skin contact	: Causes skin irritation	n. May caus	e an allergio	c skin reaction.	
Ingestion	: Harmful if swallowed	d. May be fa	tal if swallov	ved and enters air	ways.
Symptoms related to the ph Eye contact	 iysical, chemical and tox May cause mild reve watering redness 			<u>tics</u>	
				e	
Inhalation	: In case of exposure cause irritation of re- Can cause central n nausea or vomiting headache dizziness/vertigo convulsive seizures cardiac arrhythmia Loss of coordination	spiratory sys ervous syste	tem.		concentration may
Inhalation Skin contact	cause irritation of rea Can cause central n nausea or vomiting headache dizziness/vertigo convulsive seizures cardiac arrhythmia	spiratory sys ervous syste	tem.		concentration may
	cause irritation of rea Can cause central n nausea or vomiting headache dizziness/vertigo convulsive seizures cardiac arrhythmia Loss of coordination	spiratory sys ervous syste n.	tem. m (CNS) de	epression.	concentration may
Skin contact	 cause irritation of reaction cause central nausea or vomiting headache dizziness/vertigo convulsive seizures cardiac arrhythmia Loss of coordination Causes skin irritation nausea or vomiting stomach pains diarrhea Can cause central n 	spiratory sys ervous syste n. ervous syste	tem. m (CNS) de m (CNS) de	epression.	
Skin contact Ingestion <u>Delayed and immediate effe</u> <u>Short term exposure</u> Potential immediate	 cause irritation of reaction cause central nausea or vomiting headache dizziness/vertigo convulsive seizures cardiac arrhythmia Loss of coordination Causes skin irritation nausea or vomiting stomach pains diarrhea Can cause central n 	spiratory sys ervous syste n. ervous syste	tem. m (CNS) de m (CNS) de	epression.	
Skin contact Ingestion <u>Delayed and immediate effe</u> <u>Short term exposure</u> Potential immediate effects	cause irritation of rea Can cause central n nausea or vomiting headache dizziness/vertigo convulsive seizures cardiac arrhythmia Loss of coordination : Causes skin irritation : nausea or vomiting stomach pains diarrhea Can cause central n ects and also chronic eff : Not available.	spiratory sys ervous syste n. ervous syste	tem. m (CNS) de m (CNS) de	epression.	
Skin contact Ingestion <u>Delayed and immediate effe</u> <u>Short term exposure</u> Potential immediate	cause irritation of rea Can cause central n nausea or vomiting headache dizziness/vertigo convulsive seizures cardiac arrhythmia Loss of coordination : Causes skin irritation : nausea or vomiting stomach pains diarrhea Can cause central n ects and also chronic eff : Not available.	spiratory sys ervous syste n. ervous syste	tem. m (CNS) de m (CNS) de	epression.	
Skin contact Ingestion Delayed and immediate effer Short term exposure Potential immediate effects Potential delayed effects Long term exposure Potential immediate	 cause irritation of reaction cause central nausea or vomiting headache dizziness/vertigo convulsive seizures cardiac arrhythmia Loss of coordination Causes skin irritation nausea or vomiting stomach pains diarrhea Can cause central n ects and also chronic eff Not available. Not available. 	spiratory sys ervous syste n. ervous syste	tem. m (CNS) de m (CNS) de	epression.	



SDS #: C3JU7U0PS

Product/substance	Result	Species	Dose	Exposure	
Fuels, diesel Cashew (Anacardium occidentale) Nutshell Extract, Decarboxylated (Technical Grade)	Sub-chronic NOAEL Dermal Sub-chronic NOAEL Oral	Rat Rat	30 mg/kg 150 mg/kg	-	
Conclusion/Summary	: Not available.				
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	: Suspected of causing cancer.				
Mutagenicity	: No known significant effects or critical hazards.				
Reproductive toxicity	: No known significant effects	s or critical haz	ards.		

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

This product does not contain any substance present at a concentration equal to or greater than 0.1% by mass, included in the list drawn up in accordance with article 59, paragraph 1 of the REACh Regulation, due to its endocrine disrupting properties, or a substance known to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation 2018/605.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

Toxic to aquatic life with long lasting effects.

12.1 Toxicity

Product/substance	Result	Species	Exposure	Test
Fuels, diesel	Acute EC50 22 mg/l	Algae - Pseudokirchnerella subcapitata	72 hours	OECD 201
	Acute EC50 68 mg/l	Crustaceans - Daphnia magna	48 hours	OECD 202
	Acute LC50 21 mg/l	Fish - Oncorhynchus mykiss	96 hours	OECD 203
	Chronic NOEC 0.083 mg/l	Fish	14 days	QSAR
	Chronic NOEL 1 mg/l	Algae - Pseudokirchnerella subcapitata	72 hours	OECD 201
	Chronic NOEL 0.2 mg/l	Crustaceans - Daphnia magna	21 days	QSAR
Cashew (Anacardium occidentale) Nutshell Extract, Decarboxylated (Technical Grade)	Acute LL50 >1000 mg/l Marine water	Fish - Cyprinodon variegatus	96 hours	OECD 203

Conclusion/Summary

: Not available.

12.2 Persistence and degradability

Product/substance	Test	Result	Dose	Inoculum
Fuels, diesel	OECD 301F	60 % - Readily - 28 days	-	Activated sludge

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Conclusion/Summary : Not available.					
Product/substance	Aquatic half-life	Photolysis	Biodegradability		
Fuels, diesel Cashew (Anacardium occidentale) Nutshell Extract, Decarboxylated (Technical Grade)	-	-	Readily Inherent		

12.3 Bioaccumulative potential

Product/substance	LogKow	BCF	Potential
Cashew (Anacardium occidentale) Nutshell Extract, Decarboxylated (Technical Grade)	6.2	-	High

12.4 Mobility in soil	
Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.
Mobility in soil	: Given its physical and chemical characteristics, the product is generally mobile in the ground It may contaminate ground water. Volatilisation is dependent on Henry's Constant which is not applicable to UVCB The product spreads on the surface of the water. In water, the majority of components of this product will be absorbed on sediments. The product are resistant to hydrolysis because they lack a functional group that is hydrolytically reactive.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB in a concentration >= 0,1 %.

12.6 Endocrine disrupting properties

This product does not contain any substance present at a concentration equal to or greater than 0.1% by mass, included in the list drawn up in accordance with article 59, paragraph 1 of the REACh Regulation, due to its endocrine disrupting properties, or a substance known to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation 2018/605.

12.7 Other adverse effects

Not applicable.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

<u>Product</u>	
Methods of disposal	 Hazardous waste.: Dispose of waste product or used containers according to local regulations.
Hazardous waste	: Yes.
	According to the European Waste Catalogue, Waste Codes are not product specific, but application specific Waste codes should be assigned by the user based on the application for which the product was used. The following Waste Codes are only suggestions: 13 07 03* 13 07 01* 05 07 02 13 04 01 13 04 03



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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. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	ICAO/IATA
14.1 UN number or ID number	UN1202	UN1202	UN1202	UN1202
14.2 UN proper shipping name	GAS OIL	GAS OIL	GAS OIL	Gas oil
14.3 Transport hazard class(es)		3	3	3
14.4 Packing group	111	111	111	111
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.

Additional information

ADR/RID	 The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. <u>Hazard identification number</u> 30 <u>Limited quantity</u> 5 L <u>Special provisions</u> 640M, 664 <u>Tunnel code</u> (D/E)
ADN	 The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. Special provisions 640M
IMDG	: The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. <u>Emergency schedules</u> F-E, S-E
ICAO/IATA	 The environmentally hazardous substance mark may appear if required by other transportation regulations. <u>Quantity limitation</u> Passenger and Cargo Aircraft: 60 L. Packaging instructions: 355. Cargo Aircraft Only: 220 L. Packaging instructions: 366. Limited Quantities - Passenger Aircraft: 10 L. Packaging instructions: Y344. <u>Special provisions</u> A3



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14.6 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.
14.7 Maritime transport in	:	Not available.

14.7 Maritime transport in	: Not availa
bulk according to IMO	
instruments	

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

<u>Annex XIV</u>

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Other EU regulations

Take note of Dir 92/85/EC on the protection of pregnant and breastfeeding women at work

Take note of Dir 94/33/EC on the protection of young people at work.

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

DIRECTIVE 2008/68/EC related on the inland transport of dangerous goods

If the working temperature is higher than the flash point :

DIR 2014/34/UE relating to equipment and protective systems intended for use in potentially explosive atmospheres Directive 1999/92/EC related on the protection of workers in explosive atmospheres

Industrial emissions : Not listed

(integrated pollution prevention and control) -Air Industrial emissions : Not listed (integrated pollution prevention and control) -Water

Explosive precursors : Not applicable.

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Named substances

Name

GAS OIL - Category 34



SDS #: C3JU7U0PS

National regulations			
Social Security Code, Articles L 461-1 to L 461-7		Fuels, diesel	RG 84
Classified installations for environmental protection	:	Environmental Code, Book V Prevention of Pollu Classified Installations for Environmental Protect Section 2: Nomenclature of Classified Installation ICPE 4734, 1434, 1435, 1436	tion, Chapter 1 General Provisions;
Reinforced medical surveillance	:	Decree n ° 2012-135 of January 30, 2012 relatin occupational medicine: applicable	g to the organization of
Other regulations	:	Annex to article D461-1 of national health insural professionnal illnesses): 601. Decree of July 1st 2004 concerning technical an petroleum product in collective or individual Art R4412-1 to R4412-57 of the Labor Code relat dangerous chemical agents. Art R. 4624-18 of the Labor Code relating to you Art R.4624-19 of the Labor Code relating to preg have recently given birth or are breastfeeding. If the working temperature is higher than the flas Art. R4227-42 to R4227-54 of Labor Code relate Art. L551-1 to L557-61 of Environmental Code re certain structures or installations	ad safety rules for the storage of ating to the provisions applicable to ang workers. gnant workers and workers who sh point : ad to Explosion prevention

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals 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.

LU - Luxembourg prohibited chemicals in the workplace Not listed.

Inventory list	
Australia inventory (AIIC)	: Not determined.
Canada inventory (DSL/NDSL)	: Not determined.
China inventory (IECSC)	: Not determined.
Europe inventory (EC)	: All components are listed or exempted.



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

15.2 Chemical Safety	: See exposure scenarios
Assessment	

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and	: ACGIH = American Conference of Governmental Industrial Hygienists
acronyms	ATE = Acute Toxicity Estimate
	BCF = Bioconcentration Factor
	CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.
	1272/2008]
	DNEL = Derived No Effect Level
	DMEL = Derived Minimal Effect Level
	DMSO = Dimethyl Sulfoxide
	EL50 = median Effective Loading
	EUH statement = CLP-specific Hazard statement
	HSE = Health, Safety and Environment
	IC50 = Half maximal inhibitory concentration
	IDHL = Immediately dangerous to life or health
	LC50 = Median lethal concentration
	LD50 = Median lethal dose
	LL50 = median Lethal Loading
	LogPow = logarithm of the octanol/water partition coefficient
	N/A = Not available
	NIOSH = National Institute of Occupational Safety and Health NOAEL = No Observed Adverse Effect Level
	NOEC No Observed Effect Concentration
	NOEL = No Observed Effect Level
	NOELR = No observed Effect Loading Rate
	OECD = Organisation for Economic Co-operation and Development
	OEL = Occupational Exposure Limit
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	QSAR = Quantitative Structure–Activity Relationship
	REL = Recommanded Exposure Limit
	STEL = Short Term Exposure Limit
	TLV = Threshold Limit Value
	TWA = Time Weight Average
	VOC = Volatile Organic Compound
	vPvB = Very Persistent and Very Bioaccumulative
	,



SDS #: C3JU7U0PS

Unique Formula Identifier (UFI)

UVCB Substance of unknown or Variable composition, Complex reaction products or Biological material

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

Classification	Justification
Flam. Lig. 3, H226	Expert judgment
Acute Tox. 4, H302	Calculation method
Acute Tox. 4, H332	Calculation method
Skin Irrit. 2, H315	Calculation method
Eye Dam. 1, H318	Calculation method
Skin Sens. 1A, H317	Calculation method
Carc. 2, H351	Calculation method
STOT RE 2, H373 (bone marrow, liver, thymus)	Calculation method
Asp. Tox. 1, H304	Calculation method
Aquatic Chronic 2, H411	Calculation method

Full text of abbreviated H statements

H226	Flammable liquid and vapor.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated
	exposure.
H411	Toxic to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Chronic 2	AQUATIC HAZARD (LONG-TERM) - Category 2
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Carc. 2	CARCINOGENICITY - Category 2
Eye Dam. 1	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1A	SKIN SENSITIZATION - Category 1A
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY (REPEATED
	EXPOSURE) - Category 2

Date of revision

: 2024/02/21

previous revision date : No previous validation : 1

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.

Annex to the extended Safety Data Sheet (eSDS)

Identification of the substance or mixture **Product definition** : Mixture : C3JU7U0PS Code : BLEND CNSL WITH GASOIL 0.1% BASE **Product name** Section 1 - Title Short title of the exposure : Formulation & (re)packing of substances and mixtures - Industrial scenario List of use descriptors : Identified use name: Formulation & (re)packing of substances and mixtures -Industrial Process Category: PROC01, PROC02, PROC03, PROC04, PROC05, PROC08a, PROC08b, PROC09, PROC14, PROC15, PROC28 Sector of end use: SU03 Subsequent service life relevant for that use: No. Environmental Release Category: ERC02 Environmental contributing : ESVOC SPERC 2.2.v1 scenarios Health Contributing : General measures applicable to all activities scenarios General measures (skin irritants) General exposures (closed systems) - PROC01, PROC02, PROC03 General exposures (open systems) - PROC04 Process sampling - PROC09 Equipment cleaning and maintenance - PROC08a, PROC28 Laboratory activities - PROC15 Drum and small package filling - PROC08b Storage - PROC01, PROC02 **Drum/batch transfers** Bulk transfers - PROC08b Mixing operations (open systems) - PROC05 Batch processes at elevated temperatures - PROC03 General measures (aspiration) General measures (flammability) Manual - PROC08a Tabletting, compression, extrusion or pelletisation - PROC14 **Processes and activities** : Formulation, packing and re-packing of the substance and its mixtures in batch or covered by the exposure continuous operations, including storage, materials transfers, mixing, tabletting, compression, pelletisation, extrusion, large and small scale packing, sampling, scenario maintenance and associated laboratory activities.

Section 2 - Exposure controls

Contributing scenario control	lir	g environmental exposure for 1: ESVOC SPERC 2.2.v1	
Product characteristics	:	Substance is complex UVCB. Predominantly hydrophobic	
Frequency and duration of use	:	Continuous release Emission days (jours/an) : 300	
Environment factors not influenced by risk management	:	Local freshwater dilution factor : 10 Local marine water dilution factor : 100	
Other conditions affecting environmental exposure	:	Release fraction to air from process (initial release prior to RMM) : 1.0E-2 Release fraction to wastewater from process (initial release prior to RMM) : 5.0 Release fraction to soil from process (initial release prior to RMM) : 1.0E-4)E-5
Technical conditions and measures at process level (source) to prevent release	:	Common practices vary across sites thus conservative process release estimatused.	ites
Date of issue/Date of revision		8/18/2023	21/37

Industrial

BLEND CNSL WITH GASOIL	0.1% BASE	Formulation & (re)packing of substances and mixtures - Industrial		
Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil	Prevent discharge of ur If discharging to domes required Treat air emission to pr Treat on-site wastewate removal efficiency of (%	tic sewage treatment plant, provide the required onsite		
Organizational measures to prevent/limit release from site		sludge to natural soils. Sludge should be incinerated, Not applicable as there is no release to wastewater.		
Conditions and measures related to sewage treatment plant	94.6 Total efficiency of remo treatment plant) RMMs Maximum allowable site treatment removal(kg/d	e tonnage (Msafe) based on release following total wastewater		
Conditions and measures related to external treatment of waste for disposal	: External treatment and national regulations.	disposal of waste should comply with applicable local and/or		
Conditions and measures related to external recovery of waste	national regulations. Maximum Risk Charact	ecycling of waste should comply with applicable local and/or erization Ratios for air emissions: 5.8E-2 erization Ratios for waste water emissions: 9.3E-1		
Contributing scenario contro	olling worker exposure for	2: General measures applicable to all activities		
Concentration of substance in mixture or article		stance in the product up to 100% (unless stated differently).		
Physical state	: Liquid, vapor pressure	< 0.5 kPa at Standard Temperature and Pressure		
Frequency and duration of use/exposure	: Covers daily exposures	up to 8 hours (unless stated differently)		
Other conditions affecting workers exposure		ore than 20°C above ambient temperature., unless stated good basic standard of occupational hygiene has been		
Conditions and measures rel	lated to personal protection	on, hygiene and health evaluation		
Advice on general occupational hygiene	suitable general/local e equipment break-in or r nature of exposure and to prevent exposure to respiratory protection w Clear spills immediately special waste collection	ng measures such as closed systems, dedicated facilities and xhaust ventilation. Drain down and flush system prior to maintenance. Ensure staff are informed of and trained on the basic actions to minimize exposure. Wear suitable coveralls the skin. Wear suitable gloves tested to EN374. Wear hen its use is identified for certain contributing scenarios. 7. Dispose of this material and its container at hazardous or point. Ensure control measures are regularly inspected and he need for risk-based health surveillance.		
Contributing scenario controlling worker exposure for 3: General measures (skin irritants)				
Conditions and measures rel	Conditions and measures related to personal protection, hygiene and health evaluation			
Advice on general occupational hygiene	contact. Wear suitable	contact is avoided. Identify potential areas for indirect skin gloves tested to EN374. Clear spills immediately. Wash off immediately. For further specification, refer to section 8 of		

BLEND CNSL WITH GASOI	L 0.1% BASE	- Formulation & (re)packing of substances and mixtures Industrial
Contributing scenario cont	rolling worker exposure fo	or 4: General exposures (closed systems)
Process control/change measures	: Handle substance with	nin a closed system.
Conditions and measures r	elated to personal protect	ion, hygiene and health evaluation
Advice on general occupational hygiene	: Handle substance with to avoid exposure.	nin a closed system. Sample via a closed loop or other system
Contributing scenario cont	rolling worker exposure fo	or 5: General exposures (open systems)
Process control/change measures	: Wear suitable gloves t	tested to EN374.
Conditions and measures r	elated to personal protect	ion, hygiene and health evaluation
Advice on general occupational hygiene	other parts of the body impervious garments i	tested to EN374. If skin contamination is expected to extend to /, then these body parts should also be protected with n a manner equivalent to those described for the hands. For efer to section 8 of the SDS.
Contributing scenario cont	rolling worker exposure fo	or 6: Process sampling
Engineering controls	: No other specific mea	
Conditions and measures r	elated to personal protect	ion, hygiene and health evaluation
Advice on general occupational hygiene	other parts of the body impervious garments i	tested to EN374. If skin contamination is expected to extend to <i>y</i> , then these body parts should also be protected with n a manner equivalent to those described for the hands. For efer to section 8 of the SDS.
Contributing scenario cont	rolling worker exposure fo	or 7: Equipment cleaning and maintenance
Technical conditions and measures to control dispersion from source towards the worker		system prior to equipment break-in or maintenance.
Conditions and measures r	elated to personal protect	ion, hygiene and health evaluation
Advice on general occupational hygiene	Drain down and flush s chemical-resistant glo training. If skin contam these body parts shou equivalent to those de section 8 of the SDS.	system prior to equipment break-in or maintenance. Wear ves (tested to EN374) in combination with 'basic' employee hination is expected to extend to other parts of the body, then Id also be protected with impervious garments in a manner scribed for the hands. For further specification, refer to Additional good practice advice. Obligations according to H do not apply Wear suitable coveralls to prevent exposure to
Contributing scenario cont	• •	or 8: Laboratory activities
No other specific measures		
		ion, hygiene and health evaluation
Advice on general occupational hygiene		sures identified. Additional good practice advice. Obligations (4) of REACH do not apply. Put lids on containers
Contributing scenario cont	rolling worker exposure fo	or 9: Drum and small package filling
Process control/change measures	: Wear suitable gloves t	tested to EN374.
Conditions and measures r	elated to personal protect	ion, hygiene and health evaluation
Advice on general occupational hygiene	other parts of the body impervious garments i	tested to EN374. If skin contamination is expected to extend to <i>y</i> , then these body parts should also be protected with n a manner equivalent to those described for the hands. For efer to section 8 of the SDS.

BLEND CNSL WITH GASOIL 0.	1% BASE	Formulation & (re)packing of substances and mixtures - Industrial
Contributing scenario controll	ing worker exposure for	10: Storage
Process control/change measures	: Store substance within a	a closed system.
Conditions and measures relation	ted to personal protectio	on, hygiene and health evaluation
Advice on general occupational hygiene	: Store substance within a	a closed system.
Contributing scenario controll	ing worker exposure for	11: Drum/batch transfers
Conditions and measures relation	ted to personal protectio	on, hygiene and health evaluation
Advice on general occupational hygiene	employee training. If ski body, then these body p manner equivalent to the to section 8 of the SDS.	It gloves (tested to EN374) in combination with 'basic' in contamination is expected to extend to other parts of the parts should also be protected with impervious garments in a ose described for the hands. For further specification, refer Additional good practice advice. Obligations according to do not apply. Ensure no splashing occurs during transfer.
Contributing scenario controll	ing worker exposure for	12: Bulk transfers
Conditions and measures relation	ted to personal protectio	on, hygiene and health evaluation
Advice on general occupational hygiene	EN374) in combination v expected to extend to of protected with imperviou	n a closed system. Wear chemical-resistant gloves (tested to with 'basic' employee training. If skin contamination is ther parts of the body, then these body parts should also be us garments in a manner equivalent to those described for pecification, refer to section 8 of the SDS.
Contributing scenario controll	ing worker exposure for	13: Mixing operations (open systems)
Ventilation control measures	: Provide extract ventilation	on to points where emissions occur.
Conditions and measures relation	ted to personal protectio	on, hygiene and health evaluation
Advice on general occupational hygiene	gloves (tested to EN374 contamination is expected parts should also be pro	on to points where emissions occur. Wear chemical-resistant) in combination with 'basic' employee training. If skin ed to extend to other parts of the body, then these body otected with impervious garments in a manner equivalent to hands. For further specification, refer to section 8 of the
Contributing scenario controll	ing worker exposure for	14: Batch processes at elevated temperatures
Conditions and measures relation	ted to personal protectio	on, hygiene and health evaluation
Advice on general occupational hygiene		on to points where emissions occur. Handle substance within nes process temperature up to 60.0°C
Contributing scenario controll	ing worker exposure for	15: General measures (aspiration)
Conditions and measures relation	ted to personal protectio	on, hygiene and health evaluation
Advice on general occupational hygiene		as H304, refer to section 2 of the SDS; Do not ingest. If mediate medical assistance.
-	-	16: General measures (flammability) on, hygiene and health evaluation
		as H224 or H225 or H226, refer to section 2 of the SDS; For
occupational hygiene		s from physicochemical properties, refer to main body of the
Contributing scenario controll	ing worker exposure for	17: Manual
Conditions and measures relation	ted to personal protectio	on, hygiene and health evaluation
Advice on general occupational hygiene	with 'basic' employee tra parts of the body, then the garments in a manner e specification, refer to se	r chemical-resistant gloves (tested to EN374) in combination aining. If skin contamination is expected to extend to other these body parts should also be protected with impervious equivalent to those described for the hands. For further action 8 of the SDS. Additional good practice advice. The Additional good practice advice. The Additional good practice advice.

BLEND CNSL WITH GASOI	L 0.1% BASE	Formulation & (re)packing of substances and mixtures - Industrial
	•	18: Tabletting, compression, extrusion or pelletisation on, hygiene and health evaluation
Advice on general occupational hygiene	other parts of the body, impervious garments in	sted to EN374. If skin contamination is expected to extend to then these body parts should also be protected with a manner equivalent to those described for the hands. For fer to section 8 of the SDS.

Section 3 - Exposure estimation and reference to its source

Website:	: Not applicable.
Exposure estimation and ref	erence to its source - Environment: 1: ESVOC SPERC 2.2.v1
Exposure assessment (environment):	: The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model
Exposure estimation and reference to its source	: Not available.
Exposure estimation and ref	erence to its source - Workers: 2: General measures applicable to all activities
Exposure assessment (human):	: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.
Exposure estimation and reference to its source	: Not available.
Exposure estimation and ref	erence to its source - Workers: 3: General measures (skin irritants)
Exposure assessment (human):	: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.
Exposure estimation and reference to its source	: Not available.
Exposure estimation and ref	erence to its source - Workers: 4: General exposures (closed systems)
Exposure assessment (human):	: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.
Exposure estimation and reference to its source	: Not available.
Exposure estimation and ref	erence to its source - Workers: 5: General exposures (open systems)
Exposure assessment (human):	: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.
Exposure estimation and reference to its source	: Not available.
Exposure estimation and ref	erence to its source - Workers: 6: Process sampling
Exposure assessment (human):	: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.
Exposure estimation and reference to its source	: Not available.
Exposure estimation and ref	erence to its source - Workers: 7: Equipment cleaning and maintenance
Exposure assessment (human):	: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.
Exposure estimation and reference to its source	: Not available.
Exposure estimation and ref	erence to its source - Workers: 8: Laboratory activities
Exposure assessment (human):	: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.
Exposure estimation and reference to its source	: Not available.

BLEND CNSL WITH GASOIL	.0.1% BASE	Formulation & (re)packing of substances and mixtures Industria
		rkers: 9: Drum and small package filling
Exposure assessment (human):	otherwise indicated.	I has been used to estimate workplace exposures unless
Exposure estimation and reference to its source	: Not available.	
Exposure estimation and ref		-
Exposure assessment (human):	: The ECETOC TRA too otherwise indicated.	I has been used to estimate workplace exposures unless
Exposure estimation and reference to its source	: Not available.	
Exposure estimation and ref	ference to its source - Wo	rkers: 11: Drum/batch transfers
Exposure assessment (human):	: The ECETOC TRA too otherwise indicated.	I has been used to estimate workplace exposures unless
Exposure estimation and reference to its source	: Not available.	
Exposure estimation and ref	ference to its source - Wo	rkers: 12: Bulk transfers
Exposure assessment (human):	: The ECETOC TRA too otherwise indicated.	I has been used to estimate workplace exposures unless
Exposure estimation and reference to its source	: Not available.	
Exposure estimation and ref	ference to its source - Wo	rkers: 13: Mixing operations (open systems)
Exposure assessment (human):	: The ECETOC TRA too otherwise indicated.	I has been used to estimate workplace exposures unless
Exposure estimation and reference to its source	: Not available.	
Exposure estimation and ref	ference to its source - Wo	rkers: 14: Batch processes at elevated temperatures
Exposure assessment (human):	: The ECETOC TRA too otherwise indicated.	I has been used to estimate workplace exposures unless
Exposure estimation and reference to its source	: Not available.	
Exposure estimation and re	ference to its source - Wo	rkers: 15: General measures (aspiration)
Exposure assessment (human):	: The ECETOC TRA too otherwise indicated.	I has been used to estimate workplace exposures unless
Exposure estimation and reference to its source	: Not available.	
Exposure estimation and ref	ference to its source - Wo	rkers: 16: General measures (flammability)
Exposure assessment (human):	: The ECETOC TRA too otherwise indicated.	I has been used to estimate workplace exposures unless
Exposure estimation and reference to its source	: Not available.	
Exposure estimation and ref	ference to its source - Wo	rkers: 17: Manual
Exposure assessment (human):	: The ECETOC TRA too otherwise indicated.	I has been used to estimate workplace exposures unless
Exposure estimation and reference to its source	: Not available.	
Exposure estimation and repelletisation	ference to its source - Wo	rkers: 18: Tabletting, compression, extrusion or
Exposure assessment (human):	: The ECETOC TRA too otherwise indicated.	I has been used to estimate workplace exposures unless
Exposure estimation and reference to its source	: Not available.	

Section 4 - Guidance to DU to evaluate whether he works inside the boundaries set by the ES **Environment** : Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination. Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination. Further details on scaling and control technologies are provided in SpERC factsheet (http://cefic.org/en/reach-for-industries-libraries.html). : Predicted exposures are not expected to exceed the DN(M)EL when the risk Health management measures/operational conditions outlined in section 2 are implemented. Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. Available hazard data do not enable the derivation of a DNEL for dermal irritant effects. Available hazard data do not support the need for a DNEL to be established for other health effects. Risk management measures are based on qualitative risk characterisation.

Additional good practice advice beyond the REACH CSA

Environment	: Not available.	
Health	: Not available.	

Annex to the extended Safety Data Sheet (eSDS)

Industrial

Identification of the subs	ce or mixture	
Product definition	<i>l</i> ixture	
Code	C3JU7U0PS	
Product name	BLEND CNSL WITH GASOIL 0.1% BASE	
Section 1 - Title		
Short title of the exposure scenario	Jse as a fuel - Industrial	
List of use descriptors	dentified use name: Use as a fuel - Industrial Process Category: PROC01, PROC02, PROC08a, PROC08b, PROC16, PRO Sector of end use: SU03 Subsequent service life relevant for that use: No. Environmental Release Category: ERC07	OC28
Environmental contributing scenarios	ESVOC SPERC 7.12a.v1	
Health Contributing scenarios	General measures applicable to all activities General measures (skin irritants) Equipment cleaning and maintenance - PROC08a, PROC28 Storage - PROC01, PROC02 Drum/batch transfers - PROC08b Bulk transfers - PROC08b General measures (aspiration) General measures (flammability) Closed systems - PROC16 General exposures (closed systems) - PROC01, PROC02	
Processes and activities covered by the exposure scenario	Covers the use as a fuel (or fuel additive) and includes activities associated wit ransfer, use, equipment maintenance and handling of waste.	th its

Section 2 - Exposure controls

Contributing scenario contro	llir	ng environmental exposure for 1: ESVOC SPERC 7.12a.v1
Product characteristics	:	Substance is complex UVCB. Predominantly hydrophobic
Frequency and duration of use	1	Continuous release Emission days (jours/an) : 300
Environment factors not influenced by risk management	:	Local freshwater dilution factor : 10 Local marine water dilution factor : 100
Other conditions affecting environmental exposure	:	Release fraction to air from process (initial release prior to RMM) : 5.0E-3 Release fraction to wastewater from process (initial release prior to RMM) :1.1E-6 Release fraction to soil from process (initial release prior to RMM) : 0
Technical conditions and measures at process level (source) to prevent release	:	Common practices vary across sites thus conservative process release estimates used.
Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil	:	Risk from environmental exposure is driven by freshwater sediment. If discharging to domestic sewage treatment plant, no onsite wastewater treatment required Treat air emission to provide a typical removal efficiency of (%) : 95 Treat on-site wastewater (prior to receiving water discharge) to provide the required removal efficiency of (%) : >= 94.4 If discharging to domestic sewage treatment plant, provide the required onsite wastewater removal efficiency of (%) : >= 0.0

BLEND CNSL WITH GASOIL	0.1% BASE	Use as a fuel - Industrial
Organizational measures to prevent/limit release from site	: Do not apply industrial sludge to natural soils. Sludge shou contained or reclaimed. Not applicable as there is no relea	-
Conditions and measures related to sewage treatment plant	: Estimated substance removal from wastewater via municip 94.6 Total efficiency of removal from wastewater after onsite an treatment plant) RMMs (%): 94.6 Maximum allowable site tonnage (M _{Safe}) based on release treatment removal(kg/d) : 5.2E+6 Assumed domestic sewage treatment plant flow (m3/d) : 2	nd offsite (domestic following total wastewater
Conditions and measures related to external treatment of waste for disposal	: Combustion emissions limited by required exhaust emission emissions considered in regional exposure assessment. E disposal of waste should comply with applicable local and/	on controls. Combustion external treatment and
Conditions and measures related to external recovery of waste	 This substance is consumed during use and no waste from generated. Maximum Risk Characterization Ratios for air emissions: 5 Maximum Risk Characterization Ratios for waste water em 	5.9E-2
Contributing scenario contro	lling worker exposure for 2: General measures applicable	e to all activities
Concentration of substance in mixture or article	: Covers percentage substance in the product up to 100% (
Physical state	: Liquid, vapor pressure < 0.5 kPa at Standard Temperature	and Pressure
Frequency and duration of use/exposure	: Covers daily exposures up to 8 hours (unless stated different	• /
Other conditions affecting workers exposure	 Assumes use at not more than 20°C above ambient temper differently. Assumes a good basic standard of occupational implemented 	
Conditions and measures rel	ated to personal protection, hygiene and health evaluation	n
Advice on general occupational hygiene	: Control any potential exposure using measures such as consystems, properly designed and maintained facilities and a ventilation. Drain down systems and transfer lines prior to the Drain down and flush equipment where possible prior to measure of exposure and aware of basic actions to minimise suitable personal protective equipment is available; clear uses in accordance with regulatory requirements; monitor measures; consider the need for health surveillance; identic corrective actions. Wear suitable gloves tested to EN374. Protection when its use is identified for certain contributing	ontained or enclosed a good standard of general breaking containment. aintenance. ff are informed of the e exposures; ensure up spills and dispose of r effectiveness of control ify and implement Wear respiratory
Contributing scenario contro	lling worker exposure for 3: General measures (skin irrita	ints)
	ated to personal protection, hygiene and health evaluation	
Advice on general occupational hygiene	: Ensure that direct skin contact is avoided. Identify potentia contact. Wear suitable gloves tested to EN374. Clear spills any skin contamination immediately. For further specificati the SDS.	s immediately. Wash off
	lling worker exposure for 4: Equipment cleaning and mai	ntenance
Technical conditions and measures to control dispersion from source towards the worker	: Drain down and flush system prior to equipment break-in c	or maintenance.
Conditions and measures rel	ated to personal protection, hygiene and health evaluation	n
Advice on general occupational hygiene	: Drain down and flush system prior to equipment break-in or chemical-resistant gloves (tested to EN374) in combination training. If skin contamination is expected to extend to othe these body parts should also be protected with impervious equivalent to those described for the hands. For further sp section 8 of the SDS. Additional good practice advice. Oblic Article 37(4) of REACH do not apply Wear suitable covera the skin. Clear spills immediately.	n with 'basic' employee er parts of the body, then garments in a manner ecification, refer to igations according to
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BLEND CNSL WITH GASC	DIL 0.1% BASE	Use as a fuel - Industrial
Contributing scenario con Process control/change measures	trolling worker exposure for 5: Storage : Handle substance within a closed syste	em.
Conditions and measures Advice on general occupational hygiene	related to personal protection, hygiene and: Store substance within a closed system	
Contributing scenario con	trolling worker exposure for 6: Drum/batc	h transfers
Conditions and measures	related to personal protection, hygiene and	d health evaluation
Advice on general occupational hygiene	body, then these body parts should also manner equivalent to those described f to section 8 of the SDS. Additional good	to EN374) in combination with 'basic' in is expected to extend to other parts of the b be protected with impervious garments in a for the hands. For further specification, refer d practice advice. Obligations according to insure no splashing occurs during transfer.
Contributing scenario con	trolling worker exposure for 7: Bulk transf	fers
Conditions and measures	related to personal protection, hygiene and	d health evaluation
Advice on general occupational hygiene	body, then these body parts should also manner equivalent to those described f to section 8 of the SDS. Additional good	to EN374) in combination with 'basic' n is expected to extend to other parts of the b be protected with impervious garments in a for the hands. For further specification, refer d practice advice. Obligations according to nsure no splashing occurs during transfer.
Contributing scenario con	trolling worker exposure for 8: General mo	easures (aspiration)
Conditions and measures	related to personal protection, hygiene and	d health evaluation
Advice on general occupational hygiene	: Applicable if classified as H304, refer to swallowed then seek immediate medica	
Contributing scenario con	trolling worker exposure for 9: General me	easures (flammability)
Conditions and measures	related to personal protection, hygiene and	d health evaluation
Advice on general occupational hygiene		5 or H226, refer to section 2 of the SDS; For chemical properties, refer to main body of the
Contributing scenario con	trolling worker exposure for 10: Closed sy	vstems
Conditions and measures	related to personal protection, hygiene and	d health evaluation
Advice on general occupational hygiene	: Handle substance within a closed syste	em.
Contributing scenario con	trolling worker exposure for 11: General e	xposures (closed systems)
Process control/change measures	: Handle substance within a closed syste	em.
Conditions and measures	related to personal protection, hygiene and	d health evaluation
	related to personal protection, hygiene and	

Section 3 - Exposure estimation and reference to its source

Website:	1	Not available.
Exposure estimation and reference to its source - Environment: 1: ESVOC SPERC 7.12a.v1		
Exposure assessment (environment):	:	The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model
Exposure estimation and reference to its source	:	Not available.

BLEND CNSL WITH GASOIL	0.1% BASE	Use as a fuel - Industria
Exposure estimation and re	erence to its source - Workers: 2: General measures	applicable to all activities
Exposure assessment (human):	: The ECETOC TRA tool has been used to estimate w otherwise indicated.	orkplace exposures unless
Exposure estimation and reference to its source	: Not available.	
Exposure estimation and ret	erence to its source - Workers: 3: General measures	(skin irritants)
Exposure assessment (human):	: The ECETOC TRA tool has been used to estimate w otherwise indicated.	orkplace exposures unless
Exposure estimation and reference to its source	: Not available.	
Exposure estimation and re	erence to its source - Workers: 4: Equipment cleaning	g and maintenance
Exposure assessment (human):	: The ECETOC TRA tool has been used to estimate w otherwise indicated.	
Exposure estimation and reference to its source	: Not available.	
Exposure estimation and re	erence to its source - Workers: 5: Storage	
Exposure assessment (human):	: The ECETOC TRA tool has been used to estimate w otherwise indicated.	orkplace exposures unless
Exposure estimation and reference to its source	: Not available.	
Exposure estimation and re	erence to its source - Workers: 6: Drum/batch transfe	ers
Exposure assessment (human):	: The ECETOC TRA tool has been used to estimate w otherwise indicated.	orkplace exposures unless
Exposure estimation and reference to its source	: Not available.	
Exposure estimation and re	erence to its source - Workers: 7: Bulk transfers	
Exposure assessment (human):	: The ECETOC TRA tool has been used to estimate w otherwise indicated.	orkplace exposures unless
Exposure estimation and reference to its source	: Not available.	
Exposure estimation and ret	erence to its source - Workers: 8: General measures	(aspiration)
Exposure assessment (human):	: The ECETOC TRA tool has been used to estimate w otherwise indicated.	orkplace exposures unless
Exposure estimation and reference to its source	: Not available.	
Exposure estimation and re	erence to its source - Workers: 9: General measures	(flammability)
Exposure assessment (human):	: The ECETOC TRA tool has been used to estimate w otherwise indicated.	
Exposure estimation and reference to its source	: Not available.	
Exposure estimation and re	erence to its source - Workers: 10: Closed systems	
Exposure assessment (human):	: The ECETOC TRA tool has been used to estimate w otherwise indicated.	orkplace exposures unless
Exposure estimation and reference to its source	: Not available.	
Exposure estimation and re	erence to its source - Workers: 11: General exposure	s (closed systems)
Exposure assessment (human):	: The ECETOC TRA tool has been used to estimate w otherwise indicated.	
Exposure estimation and reference to its source	: Not available.	

Section 4 - Guidance to DU to evaluate whether he works inside the boundaries set by the ES

BLEND CNSL WITH GASOIL 0.1% BASE		Use as a fuel - Industrial
Environment	all sites; thus, scaling may be necessa management measures. Required ren achieved using onsite/offsite technolog removal efficiency for air can be achie	ating conditions which may not be applicable to ary to define appropriate site-specific risk noval efficiency for wastewater can be gies, either alone or in combination. Required eved using on-site technologies, either alone or ling and control technologies are provided in each-for-industries-libraries.html).
Health	: Predicted exposures are not expected management measures/operational co implemented. Where other risk manage adopted, then users should ensure the levels. Available hazard data do not en irritant effects. Available hazard data do	to exceed the DN(M)EL when the risk

Additional good practice advice beyond the REACH CSA

Environment	: Not available.
Health	: Not available.

Annex to the extended Safety Data Sheet (eSDS)

Professional

identification of the subs	,la	nce or mixture
Product definition	:	Mixture
Code	:	C3JU7U0PS
Product name	:	BLEND CNSL WITH GASOIL 0.1% BASE
Section 1 - Title		
Short title of the exposure scenario	-	Use as a fuel - Professional
List of use descriptors	:	Identified use name: Use as a fuel - Professional Process Category: PROC01, PROC02, PROC08a, PROC08b, PROC16, PROC28 Sector of end use: SU22 Subsequent service life relevant for that use: No. Environmental Release Category: ERC09a, ERC09b
Environmental contributing scenarios	:	ESVOC SPERC 9.12b.v1
Health Contributing scenarios	:	General measures applicable to all activities General measures (skin irritants) Equipment cleaning and maintenance - PROC08a, PROC28 Storage - PROC01, PROC02 Drum/batch transfers - PROC08b Bulk transfers - PROC08a Refuelling - PROC08b General measures (aspiration) General measures (flammability) Closed systems - PROC16 General exposures (closed systems) - PROC01, PROC02
Processes and activities covered by the exposure scenario	:	Covers the use as a fuel (or fuel additive) and includes activities associated with its transfer, use, equipment maintenance and handling of waste.

Identification of the substance or mixture

Section 2 - Exposure controls

Contributing scenario control	lir	g environmental exposure for 1: ESVOC SPERC 9.12b.v1	
Product characteristics	:	Substance is complex UVCB. Predominantly hydrophobic	
Frequency and duration of use	:	Continuous release Emission days (days/year) : 365	
Environment factors not influenced by risk management	:	Local freshwater dilution factor : 10 Local marine water dilution factor : 100	
Other conditions affecting environmental exposure	:	Release fraction to air from process (initial release prior to RMM) : 1.0E-4 Release fraction to wastewater from process (initial release prior to RMM) : 1.0E Release fraction to soil from process (initial release prior to RMM) : 1.0E-5	E-5
Technical conditions and measures at process level (source) to prevent release	:	Common practices vary across sites thus conservative process release estimat used.	es
Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil	:	Risk from environmental exposure is driven by freshwater. If discharging to domestic sewage treatment plant, no onsite wastewater treatmerequired No wastewater treatment required. Treat air emission to provide a typical removal efficiency of (%) : N/A Treat on-site wastewater (prior to receiving water discharge) to provide the required removal efficiency of(%): >= 38.8 If discharging to domestic sewage treatment plant, provide the required onsite wastewater removal efficiency of (%) : >= 0	
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BLEND CNSL WITH GASOIL	0.1	% BASE	Use as a fuel - Professional
Organizational measures to prevent/limit release from site	-	Do not apply industrial sludge to natural soils. Sludge contained or reclaimed. Not applicable as there is no	
Conditions and measures related to sewage treatment	:	Estimated substance removal from wastewater via d 94.6	omestic sewage treatment (%):
plant		Total efficiency of removal from wastewater after one treatment plant) RMMs (%): 94.6 Maximum allowable site tonnage (M_{Safe}) based on rel treatment removal (kg/d) : 1.1E+5	·
		Assumed domestic sewage treatment plant flow (m3	/d) : 2.0E+3
Conditions and measures related to external treatment of waste for disposal	:	Combustion emissions limited by required exhaust e emissions considered in regional exposure assessm disposal of waste should comply with applicable loca	ent. External treatment and
Conditions and measures related to external recovery of waste	:	This substance is consumed during use and no wast generated. Maximum Risk Characterization Ratios for air emissi	ions : 2.2E-2
		Maximum Risk Characterization Ratios for waste wa	ter emissions : 8.9E-2
		g worker exposure for 2: General measures appl	
Concentration of substance in mixture or article	:	Covers percentage substance in the product up to 10	00% (unless stated differently).
Physical state		Liquid, vapor pressure < 0.5 kPa at Standard Tempe	
Frequency and duration of use/exposure		Covers daily exposures up to 8 hours (unless stated	• /
Other conditions affecting workers exposure	:	Assumes use at not more than 20°C above ambient differently. Assumes a good basic standard of occup implemented	
Conditions and measures rel	late	d to personal protection, hygiene and health eval	uation
Advice on general occupational hygiene	:	Minimise exposure using measures such as closed s suitable general/local exhaust ventilation. Drain dowr equipment break-in or maintenance. Ensure staff are nature of exposure and basic actions to minimize exp tested to EN374. Wear respiratory protection when it contributing scenarios. Clear spills immediately. Disp container at hazardous or special waste collection po are regularly inspected and maintained. Consider the surveillance.	n and flush system prior to e informed of and trained on the posure. Wear suitable gloves is use is identified for certain pose of this material and its point. Ensure control measures
Contributing scenario contro	ollir	g worker exposure for 3: General measures (skir	n irritants)
		d to personal protection, hygiene and health eval	
Advice on general occupational hygiene	:	Avoid direct skin contact with product. Identify potent contact. Wear gloves (tested to EN 374) if hand cont up contamination/spills as soon as they occur. Wash immediately. Provide basic employee training to prev report any skin problems that may develop. For furth 8 of the SDS.	act with substance likely. Clean off any skin contamination vent/minimise exposures and to
		g worker exposure for 4: Equipment cleaning an	
Technical conditions and measures to control dispersion from source towards the worker	-	Drain down and flush system prior to equipment brea	ak-in or maintenance.
	late	d to personal protection, hygiene and health eval	uation
Advice on general occupational hygiene		Drain down and flush system prior to equipment breachemical-resistant gloves (tested to EN374) in comb training. If skin contamination is expected to extend to these body parts should also be protected with imperequivalent to those described for the hands. For furth section 8 of the SDS. Wear suitable coveralls to previspills immediately.	ak-in or maintenance. Wear ination with 'basic' employee to other parts of the body, then rvious garments in a manner ner specification, refer to
Date of issue/Date of revision	n	8/18/2023	34/37
L			

BLEND CNSL WITH GASOIL		Use as a fuel - Professiona
Personal protection	: Wear chemical-resistant gloves (tested to EN374) i employee training.	n combination with 'basic'
Contributing scenario contro	Iling worker exposure for 5: Storage	
Process control/change measures	: Store substance within a closed system.	
Conditions and measures re	ated to personal protection, hygiene and health eva	aluation
Advice on general occupational hygiene	: Store substance within a closed system.	
Contributing scenario contro	Iling worker exposure for 6: Drum/batch transfers	
Process control/change measures	: Wear suitable gloves tested to EN374.	
Organizational measures to prevent/limit releases, dispersion and exposure	: Use drum pumps or carefully pour from container.	
Conditions and measures re	ated to personal protection, hygiene and health eva	aluation
Advice on general occupational hygiene	: Wear chemical-resistant gloves (tested to EN374) i employee training. If skin contamination is expected body, then these body parts should also be protected manner equivalent to those described for the hands to section 8 of the SDS. Ensure no splashing occur	d to extend to other parts of the ed with impervious garments in a s. For further specification, refer
Contributing scenario contro	Iling worker exposure for 7: Bulk transfers	
Process control/change measures	: Wear suitable gloves tested to EN374.	
Conditions and measures re	ated to personal protection, hygiene and health eva	aluation
Advice on general occupational hygiene	: Wear chemical-resistant gloves (tested to EN374) i employee training. If skin contamination is expected body, then these body parts should also be protected manner equivalent to those described for the hands to section 8 of the SDS. Ensure no splashing occur	d to extend to other parts of the ed with impervious garments in a s. For further specification, refer
Contributing scenario contro	Iling worker exposure for 8: Refuelling	
Process control/change measures	: Wear suitable gloves tested to EN374.	
Conditions and measures re	lated to personal protection, hygiene and health eva	aluation
Advice on general occupational hygiene	: Wear chemical-resistant gloves (tested to EN374) i employee training. If skin contamination is expected body, then these body parts should also be protected manner equivalent to those described for the hands to section 8 of the SDS. Ensure no splashing occur	d to extend to other parts of the ed with impervious garments in a s. For further specification, refer
Contributing scenario contro	lling worker exposure for 9: General measures (as	piration)
Conditions and measures re	lated to personal protection, hygiene and health eva	aluation
Advice on general occupational hygiene	: Do not ingest. If swallowed then seek immediate m	edical assistance.
Contributing scenario contro	Iling worker exposure for 10: General measures (fl	ammability)
Conditions and measures re	lated to personal protection, hygiene and health eva	aluation
Advice on general occupational hygiene	: For measures to control risks from physicochemica of the SDS, section 7 and/or 8.	l properties, refer to main body
Contributing scenario contro	Iling worker exposure for 11: Closed systems	
	lated to personal protection, hygiene and health eva	aluation
Advice on general occupational hygiene	: Handle substance within a closed system.	

BLEND CNSL WITH GASOIL 0.1% BASE		Use as a fuel - Professional	
Contributing scenario controlling worker exposure for 12: General exposures (closed systems)			
Process control/change measures	: Handle substance within a closed system.		
Conditions and measures related to personal protection, hygiene and health evaluation			
Advice on general occupational hygiene	: Handle substance within a closed system. to avoid exposure.	Sample via a closed loop or other system	

Section 3 - Exposure estimation and reference to its source

Website:	: Not applicable.
Exposure estimation and ref	erence to its source - Environment: 1: ESVOC SPERC 9.12b.v1
Exposure assessment (environment):	: The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model
Exposure estimation and reference to its source	: Not available.
Exposure estimation and ref	erence to its source - Workers: 2: General measures applicable to all activities
Exposure assessment (human):	: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.
Exposure estimation and reference to its source	: Not available.
Exposure estimation and ref	erence to its source - Workers: 3: General measures (skin irritants)
Exposure assessment (human):	 The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.
Exposure estimation and reference to its source	: Not available.
Exposure estimation and ref	erence to its source - Workers: 4: Equipment cleaning and maintenance
Exposure assessment (human):	 The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.
Exposure estimation and reference to its source	: Not available.
Exposure estimation and ref	erence to its source - Workers: 5: Storage
Exposure assessment (human):	: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.
Exposure estimation and reference to its source	: Not available.
Exposure estimation and ref	erence to its source - Workers: 6: Drum/batch transfers
Exposure assessment (human):	: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.
Exposure estimation and reference to its source	: Not available.
Exposure estimation and ref	erence to its source - Workers: 7: Bulk transfers
Exposure assessment (human):	: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.
Exposure estimation and reference to its source	: Not available.
Exposure estimation and ref	erence to its source - Workers: 8: Refuelling
Exposure assessment (human):	: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.
Exposure estimation and reference to its source	: Not available.

BLEND CNSL WITH GASOIL 0.1% BASE		Use as a fuel - Professional
Exposure estimation and ref	erence to its source - Workers: 9: General measur	es (aspiration)
Exposure assessment (human):	: The ECETOC TRA tool has been used to estimat otherwise indicated.	e workplace exposures unless
Exposure estimation and reference to its source	: Not available.	
Exposure estimation and ref	erence to its source - Workers: 10: General measu	ires (flammability)
Exposure assessment (human):	: The ECETOC TRA tool has been used to estimat otherwise indicated.	e workplace exposures unless
Exposure estimation and reference to its source	: Not available.	
Exposure estimation and ref	erence to its source - Workers: 11: Closed system	S
Exposure assessment (human):	: The ECETOC TRA tool has been used to estimat otherwise indicated.	e workplace exposures unless
Exposure estimation and reference to its source	: Not available.	
Exposure estimation and ref	erence to its source - Workers: 12: General expos	ures (closed systems)
Exposure assessment (human):	: The ECETOC TRA tool has been used to estimat otherwise indicated.	e workplace exposures unless
Exposure estimation and reference to its source	: Not available.	

Section 4 - Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment	: Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination. Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination. Further details on scaling and control technologies are provided in SpERC factsheet (http://cefic.org/en/reach-for-industries-libraries.html).
Health	Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented. Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. Available hazard data do not enable the derivation of a DNEL for dermal irritant effects. Available hazard data do not support the need for a DNEL to be established for other health effects. Risk management measures are based on qualitative risk characterisation.

Additional good practice advice beyond the REACH CSA

Environment	: Not available.
Health	: Not available.