

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 : BLEND CNSL WITH GASOIL 0.1% BASE

UFI : 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

Supplier

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, diese

Cashew (Anacardium occidentale) Nutshell Extract, Decarboxylated (Technical

Grade)

Supplemental label

elements

: Not applicable.

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

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

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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4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

Eye contact: May cause mild reversible eye irritation.

watering redness

Inhalation: In case of exposure to hot product, inhalation of vapors in high concentration may

cause irritation of respiratory system.

Can cause central nervous system (CNS) depression.

nausea or vomiting

headache

dizziness/vertigo convulsive seizures cardiac arrhythmia Loss of coordination:

Causes skin irritation.

Skin contact : Causes skin irritation : nausea or vomiting

stomach pains diarrhea

Can cause central nervous system (CNS) depression.

4.3 Indication of any immediate medical attention and special treatment needed

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 from the substance or mixture

Hazards from the substance or mixture

: Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. 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 resistant protective 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

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.

Use spark-proof tools and explosion-proof equipment.

Absorb with dry earth, sand or other non-combustible material.

Dispose of via a licensed waste disposal contractor.

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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 sparkproof tools and explosion-proof equipment. Contain and collect spillage with noncombustible, 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

Name	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 : Not applicable.

solutions

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/m³	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/m³	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 Plant	100 mg/l	-
	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

Appropriate engineering 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, ...).

Individual protection measures

Hygiene measures

: See section 7.1.

Eye/face protection

: 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.

Skin protection

Hand protection

: 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 through

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

: Based on the hazard and potential for exposure, select a respirator that meets the Respiratory protection

> 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

choices and uses.

Environmental exposure

controls

: Avoid dispersal of spilled material and runoff and contact with soil, waterways,

strictly with the manufacturer's instructions and the regulations governing their

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

Appearance

Physical state : Liquid. [limpid] Color : Blue, to Green. Odor : Characteristic.

: Not applicable. Product is non-soluble (in water). pН

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 of the following materials or conditions: open

flames, sparks and static discharge.

Lower and upper explosion

limit

: Lower: 0.5%

Upper: 5% : <0.13 kPa Vapor pressure

Vapor pressure 37.8°C (100°F) : <1 kPa : >5 [Air = 1] Vapor density Relative density : 0.89 [ISO 12185]

: 0.89 g/cm³ [15°C] [ISO 12185] Density

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/ : Not applicable. [Calculated]

water

: >250°C [ASTM E 659] **Auto-ignition temperature**

Decomposition temperature : Not available.

: Kinematic (40°C): 2 to 6 mm²/s [EN 3104] **Viscosity**

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.

: Stable under recommended storage and handling conditions (see Section 7). 10.2 Chemical stability

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 (CO₂), carbon monoxide, nitrogen oxides (NO,

NO₂ etc.), various hydrocarbons, Aldehyde. Soot.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

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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 Skin - Erythema/Eschar	Rabbit Rabbit		24 hours 24 hours	OECD 404 OECD 404

Conclusion/Summary

Skin: Based on available data, the classification criteria are met.Eyes: Based on available data, the classification criteria are met.Respiratory: Based on available data, the classification criteria are not met.

Sensitization

Conclusion/Summary

Skin : Based on available data, the classification criteria are met.Respiratory : Based on available data, the classification criteria are not met.

Mutagenicity

Conclusion/Summary: Based on available data, the classification criteria are not met.

Carcinogenicity

Product/substance	Result	Species	Dose	Exposure
Fuels, diesel	Positive - Dermal - TC	Mouse	-	2 years

Conclusion/Summary

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

Reproductive toxicity

Conclusion/Summary: Based on available data, the classification criteria are not met.

Teratogenicity

Conclusion/Summary: Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure)

Conclusion/Summary: Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure)

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Product/substance	Category	Route of exposure	Target organs
Fuels, diesel	Category 2	-	bone marrow, liver, thymus

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

Aspiration hazard

Product/substance	Result		
Fuels, diesel	ASPIRATION HAZARD - Category 1		

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

Information on the likely

routes of exposure

: Not available.

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : Harmful if inhaled.

Skin contact: Causes skin irritation. May cause an allergic skin reaction.

Ingestion: Harmful if swallowed. May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : May cause mild reversible eye irritation.

watering redness

Inhalation: In case of exposure to hot product, inhalation of vapors in high concentration may

cause 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.

Ingestion : nausea or vomiting

stomach pains diarrhea

Can cause central nervous system (CNS) depression.

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

Short term exposure

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

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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 or critical hazards.

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	LogK _{ow}	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

Product

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	3
14.4 Packing group	III	III	III	III
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.

Hazard identification number 30

Limited quantity 5 L

Special provisions 640M, 664

Tunnel code (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. Emergency schedules F-E. S-E

ICAO/IATA

: The environmentally hazardous substance mark may appear if required by other transportation regulations.

Quantity limitation 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.

Special provisions A3

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user

14.6 Special precautions for : 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 bulk according to IMO

instruments

: Not available.

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

Annex XIV

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) -

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

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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 Pollution, Risks and Nuisance, Title I: Classified Installations for Environmental Protection, Chapter 1 General Provisions; Section 2: Nomenclature of Classified Installations (Article R511-9 to R511-10): ICPE 4734, 1434, 1435, 1436

Reinforced medical surveillance

: Decree n ° 2012-135 of January 30, 2012 relating to the organization of occupational medicine: applicable

Other regulations

: Annex to article D461-1 of national health insurance code (Illnesses recognized as

professionnal illnesses): 601.

Decree of July 1st 2004 concerning technical and safety rules for the storage of

petroleum product in collective or individual

Art R4412-1 to R4412-57 of the Labor Code relating to the provisions applicable to

dangerous chemical agents.

Art R. 4624-18 of the Labor Code relating to young workers.

Art R.4624-19 of the Labor Code relating to pregnant workers and workers who

have recently given birth or are breastfeeding.

If the working temperature is higher than the flash point:

Art. R4227-42 to R4227-54 of Labor Code related to Explosion prevention Art. L551-1 to L557-61 of Environmental Code related to specific provisions for

certain structures or installations

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 (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 acronyms

: ACGIH = American Conference of Governmental Industrial Hygienists

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 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

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

Date of revision : 2024/02/21

previous revision date : No previous validation

Version : 1

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.

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Annex to the extended Safety Data Sheet (eSDS)

Industrial

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

scenario

List of use descriptors

: Formulation & (re)packing of substances and mixtures - Industrial

: 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

scenarios

: General measures applicable to all activities

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

: Substance is complex UVCB. Predominantly hydrophobic

General measures (aspiration) General measures (flammability)

Manual - PROC08a

Tabletting, compression, extrusion or pelletisation - PROC14

Processes and activities covered by the exposure

scenario

: Formulation, packing and re-packing of the substance and its mixtures in batch or continuous operations, including storage, materials transfers, mixing, tabletting, compression, pelletisation, extrusion, large and small scale packing, sampling, maintenance and associated laboratory activities.

Section 2 - Exposure controls

Contributing scenario controlling environmental exposure for 1: ESVOC SPERC 2.2.v1

Product characteristics

: Continuous release

Frequency and duration of use

Emission days (jours/an): 300

Environment factors not influenced by risk

: Local freshwater dilution factor: 10

management

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): 5.0E-5

Release fraction to soil from process (initial release prior to RMM): 1.0E-4

Technical conditions and measures at process level (source) to prevent release : Common practices vary across sites thus conservative process release estimates used.

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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 Risk from environmental exposure is driven by freshwater sediment.

Prevent discharge of undissolved substance to or recover from onsite wastewater.

If discharging to domestic sewage treatment plant, no onsite wastewater treatment

Treat air emission to provide a typical removal efficiency of (%): 0

Treat on-site wastewater (prior to receiving water discharge) to provide the required removal efficiency of (%) >= : 94.1

If discharging to domestic sewage treatment plant, provide the required onsite wastewater removal efficiency of (%)>= : 0

Organizational measures to prevent/limit release from site

Do not apply industrial sludge to natural soils. Sludge should be incinerated, contained or reclaimed. Not applicable as there is no release to wastewater.

Conditions and measures related to sewage treatment plant

: Estimated substance removal from wastewater via municipal sewage treatment (%):

94.6
Total efficiency of removal from wastewater after onsite and offsite (domestic

treatment plant) RMMs (%): 94.6 Maximum allowable site tonnage (M_{Safe}) based on release following total wastewater

Maximum allowable site tonnage (M_{Safe}) based on release following total wastewater 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

: External treatment and disposal of waste should comply with applicable local and/or national regulations.

Conditions and measures related to external recovery of waste

 External recovery and recycling of waste should comply with applicable local and/or national regulations.

Maximum Risk Characterization Ratios for air emissions: 5.8E-2

Maximum Risk Characterization Ratios for waste water emissions: 9.3E-1

Contributing scenario controlling worker exposure for 2: General measures applicable to all activities

Concentration of substance in mixture or article

: Covers percentage substance in the product up to 100% (unless stated differently).

Physical state Frequency and duration of : Liquid, vapor pressure < 0.5 kPa at Standard Temperature and Pressure

use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Other conditions affecting workers exposure

: Assumes use at not more than 20°C above ambient temperature., unless stated differently. Assumes a good basic standard of occupational hygiene has been implemented

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene

: Minimise exposure using measures such as closed systems, dedicated facilities and suitable general/local exhaust ventilation. Drain down and flush system prior to equipment break-in or maintenance. Ensure staff are informed of and trained on the nature of exposure and basic actions to minimize exposure. Wear suitable coveralls to prevent exposure to the skin. Wear suitable gloves tested to EN374. Wear respiratory protection when its use is identified for certain contributing scenarios. Clear spills immediately. Dispose of this material and its container at hazardous or special waste collection point. Ensure control measures are regularly inspected and maintained. Consider the need for risk-based health surveillance.

Contributing scenario controlling worker exposure for 3: General measures (skin irritants) Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene

: Ensure that direct skin contact is avoided. Identify potential areas for indirect skin contact. Wear suitable gloves tested to EN374. Clear spills immediately. Wash off any skin contamination immediately. For further specification, refer to section 8 of the SDS.

Contributing scenario controlling worker exposure for 4: 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. Sample via a closed loop or other system to avoid exposure.

Contributing scenario controlling worker exposure for 5: General exposures (open systems)

Process control/change measures

: Wear suitable gloves tested to EN374.

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene

: Wear suitable gloves tested to EN374. If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. For further specification, refer to section 8 of the SDS.

Contributing scenario controlling worker exposure for 6: Process sampling

Engineering controls

: No other specific measures identified.

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene

: Wear suitable gloves tested to EN374. If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. For further specification, refer to section 8 of the SDS.

Contributing scenario controlling worker exposure for 7: Equipment cleaning and maintenance

Technical conditions and measures to control dispersion from source towards the worker

: Drain down and flush system prior to equipment break-in or maintenance.

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene

: Drain down and flush system prior to equipment break-in or maintenance. Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training. If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. For further specification, refer to section 8 of the SDS. Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply Wear suitable coveralls to prevent exposure to the skin. Clear spills immediately.

Contributing scenario controlling worker exposure for 8: Laboratory activities

No other specific measures identified.

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene

: No other specific measures identified. Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply. Put lids on containers immediately after use.

Contributing scenario controlling worker exposure for 9: Drum and small package filling

Process control/change measures

: Wear suitable gloves tested to EN374.

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene

: Wear suitable gloves tested to EN374. If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. For further specification, refer to section 8 of the SDS.

Contributing scenario controlling worker exposure for 10: Storage

Process control/change

measures

: Store substance within a closed system.

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene

: Store substance within a closed system.

Contributing scenario controlling worker exposure for 11: Drum/batch transfers

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene

: Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training. If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. For further specification, refer to section 8 of the SDS. Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply. Ensure no splashing occurs during transfer.

Contributing scenario controlling worker exposure for 12: Bulk transfers

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene

: Handle substance within a closed system. Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training. If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. For further specification, refer to section 8 of the SDS.

Contributing scenario controlling worker exposure for 13: Mixing operations (open systems)

Ventilation control measures

: Provide extract ventilation to points where emissions occur.

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene

: Provide extract ventilation to points where emissions occur. Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training. If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. For further specification, refer to section 8 of the SDS.

Contributing scenario controlling worker exposure for 14: Batch processes at elevated temperatures

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene

: Provide extract ventilation to points where emissions occur. Handle substance within a closed system. Assumes process temperature up to 60.0°C

Contributing scenario controlling worker exposure for 15: General measures (aspiration)

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene

: Applicable if classified as H304, refer to section 2 of the SDS; Do not ingest. If swallowed then seek immediate medical assistance.

Contributing scenario controlling worker exposure for 16: General measures (flammability)

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene

: Applicable if classified as H224 or H225 or H226, refer to section 2 of the SDS; For measures to control risks from physicochemical properties, refer to main body of the SDS, section 7 and/or 8.

Contributing scenario controlling worker exposure for 17: Manual

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene

: Use drum pumps. Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training. If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. For further specification, refer to section 8 of the SDS. Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply Ensure no splashing occurs during transfer.

Contributing scenario controlling worker exposure for 18: Tabletting, compression, extrusion or pelletisation Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Wear suitable gloves tested to EN374. If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. For further specification, refer to section 8 of the SDS.

Section 3 - Exposure estimation and reference to its source

Website: : Not applicable.

Exposure estimation and reference 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 reference 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 reference 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 reference 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 reference 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 reference 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 reference 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 reference 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.

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Exposure estimation and reference to its source - Workers: 9: Drum and small package filling

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 reference to its source - Workers: 10: 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 reference to its source - Workers: 11: 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 reference to its source - Workers: 12: 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 reference to its source - Workers: 13: Mixing operations (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 reference to its source - Workers: 14: Batch processes at elevated temperatures

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 reference to its source - Workers: 15: General measures (aspiration)

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 reference to its source - Workers: 16: General measures (flammability)

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 reference to its source - Workers: 17: Manual

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 reference to its source - Workers: 18: Tabletting, compression, extrusion or pelletisation

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.

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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.

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Annex to the extended Safety Data Sheet (eSDS)

Industrial

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

scenario

: Use as a fuel - Industrial

List of use descriptors

: Identified use name: Use as a fuel - Industrial

Process Category: PROC01, PROC02, PROC08a, PROC08b, PROC16, PROC28

Sector of end use: SU03

Subsequent service life relevant for that use: No.

Environmental Release Category: ERC07

Environmental contributing: ESVOC SPERC 7.12a.v1

scenarios

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 with its

transfer, use, equipment maintenance and handling of waste.

Section 2 - Exposure controls

Contributing scenario controlling environmental exposure for 1: ESVOC SPERC 7.12a.v1

Product characteristics

: Substance is complex UVCB. Predominantly hydrophobic

Frequency and duration of

: Continuous release

Environment factors not

Emission days (jours/an): 300

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

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

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

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Use as a fuel - Industrial

Organizational measures to prevent/limit release from site

: Do not apply industrial sludge to natural soils. Sludge should be incinerated, contained or reclaimed. Not applicable as there is no release to wastewater.

Conditions and measures related to sewage treatment plant

: Estimated substance removal from wastewater via municipal sewage treatment (%):

Total efficiency of removal from wastewater after onsite and offsite (domestic

treatment plant) RMMs (%): 94.6 Maximum allowable site tonnage (M_{Safe}) based on release following total wastewater

treatment removal(kg/d): 5.2E+6

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 emission controls. Combustion emissions considered in regional exposure assessment. External treatment and disposal of waste should comply with applicable local and/or national regulations.

Conditions and measures related to external recovery of waste

: This substance is consumed during use and no waste from the substance is generated.

Maximum Risk Characterization Ratios for air emissions: 5.9E-2 Maximum Risk Characterization Ratios for waste water emissions: 9.7E-1

Contributing scenario controlling worker exposure for 2: General measures applicable to all activities

Concentration of substance in mixture or article : Covers percentage substance in the product up to 100% (unless stated differently).

Physical state Frequency and duration of use/exposure : Liquid, vapor pressure < 0.5 kPa at Standard Temperature and Pressure

: Covers daily exposures up to 8 hours (unless stated differently)

.

Other conditions affecting workers exposure

: Assumes use at not more than 20°C above ambient temperature., unless stated differently. Assumes a good basic standard of occupational hygiene has been implemented

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene

: Control any potential exposure using measures such as contained or enclosed systems, properly designed and maintained facilities and a good standard of general ventilation. Drain down systems and transfer lines prior to breaking containment. Drain down and flush equipment where possible prior to maintenance. Where there is potential for exposure: Ensure relevant staff are informed of the nature of exposure and aware of basic actions to minimise exposures; ensure suitable personal protective equipment is available; clear up spills and dispose of waste in accordance with regulatory requirements; monitor effectiveness of control measures; consider the need for health surveillance; identify and implement corrective actions. Wear suitable gloves tested to EN374. Wear respiratory protection when its use is identified for certain contributing scenarios.

Contributing scenario controlling worker exposure for 3: General measures (skin irritants)

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene

: Ensure that direct skin contact is avoided. Identify potential areas for indirect skin contact. Wear suitable gloves tested to EN374. Clear spills immediately. Wash off any skin contamination immediately. For further specification, refer to section 8 of the SDS.

Contributing scenario controlling worker exposure for 4: Equipment cleaning and maintenance

Technical conditions and measures to control dispersion from source towards the worker

: Drain down and flush system prior to equipment break-in or maintenance.

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene

: Drain down and flush system prior to equipment break-in or maintenance. Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training. If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. For further specification, refer to section 8 of the SDS. Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply Wear suitable coveralls to prevent exposure to the skin. Clear spills immediately.

Contributing scenario controlling worker exposure for 5: Storage

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

: Store substance within a closed system.

Contributing scenario controlling worker exposure for 6: Drum/batch transfers

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene

: Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training. If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. For further specification, refer to section 8 of the SDS. Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply. Ensure no splashing occurs during transfer.

Contributing scenario controlling worker exposure for 7: Bulk transfers

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene

: Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training. If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. For further specification, refer to section 8 of the SDS. Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply Ensure no splashing occurs during transfer.

Contributing scenario controlling worker exposure for 8: General measures (aspiration)

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene

: Applicable if classified as H304, refer to section 2 of the SDS; Do not ingest. If swallowed then seek immediate medical assistance.

Contributing scenario controlling worker exposure for 9: General measures (flammability)

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene

: Applicable if classified as H224 or H225 or H226, refer to section 2 of the SDS; For measures to control risks from physicochemical properties, refer to main body of the SDS, section 7 and/or 8.

Contributing scenario controlling worker exposure for 10: Closed systems

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene

: Handle substance within a closed system.

Contributing scenario controlling worker exposure for 11: 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. Sample via a closed loop or other system to avoid exposure.

Section 3 - Exposure estimation and reference to its source

Website: : 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.

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Exposure estimation and reference 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 reference 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 reference 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 reference 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 reference 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 reference 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 reference to its source - Workers: 8: General measures (aspiration)

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 reference to its source - Workers: 9: General measures (flammability)

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 reference to its source - Workers: 10: 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 reference to its source - Workers: 11: General exposures (closed systems)

Exposure assessment

(human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless

otherwise indicated.

Exposure estimation and

: Not available.

reference to its source

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

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Use as a fuel - Industrial

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.

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Annex to the extended Safety Data Sheet (eSDS)

Professional

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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

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: ESVOC SPERC 9.12b.v1

scenarios

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.

Section 2 - Exposure controls

Contributing scenario controlling environmental exposure for 1: ESVOC SPERC 9.12b.v1

Product characteristics

Frequency and duration of

: Substance is complex UVCB. Predominantly hydrophobic

: 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-5

Release fraction to soil from process (initial release prior to RMM): 1.0E-5

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.

If discharging to domestic sewage treatment plant, no onsite wastewater treatment

required

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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Use as a fuel - Professional

Organizational measures to prevent/limit release from site

: Do not apply industrial sludge to natural soils. Sludge should be incinerated, contained or reclaimed. Not applicable as there is no release to wastewater.

Conditions and measures related to sewage treatment : Estimated substance removal from wastewater via domestic sewage treatment (%):

Total efficiency of removal from wastewater after onsite and offsite (domestic

treatment plant) RMMs (%): 94.6 Maximum allowable site tonnage (Msafe) based on release following total wastewater

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 emission controls. Combustion emissions considered in regional exposure assessment. External treatment and disposal of waste should comply with applicable local and/or national regulations.

Conditions and measures related to external recovery of waste

: This substance is consumed during use and no waste from the substance is generated.

Maximum Risk Characterization Ratios for air emissions: 2.2E-2 Maximum Risk Characterization Ratios for waste water emissions: 8.9E-2

Contributing scenario controlling worker exposure for 2: General measures applicable to all activities

Concentration of substance in mixture or article

: Covers percentage substance in the product up to 100% (unless stated differently).

Physical state Frequency and duration of : Liquid, vapor pressure < 0.5 kPa at Standard Temperature and Pressure

use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Other conditions affecting

: Assumes use at not more than 20°C above ambient temperature., unless stated differently. Assumes a good basic standard of occupational hygiene has been implemented

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene

workers exposure

: Minimise exposure using measures such as closed systems, dedicated facilities and suitable general/local exhaust ventilation. Drain down and flush system prior to equipment break-in or maintenance. Ensure staff are informed of and trained on the nature of exposure and basic actions to minimize exposure. Wear suitable gloves tested to EN374. Wear respiratory protection when its use is identified for certain contributing scenarios. Clear spills immediately. Dispose of this material and its container at hazardous or special waste collection point. Ensure control measures are regularly inspected and maintained. Consider the need for risk-based health surveillance.

Contributing scenario controlling worker exposure for 3: General measures (skin irritants)

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN 374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent/minimise exposures and to report any skin problems that may develop. For further specification, refer to section 8 of the SDS.

Contributing scenario controlling worker exposure for 4: Equipment cleaning and maintenance

Technical conditions and measures to control dispersion from source towards the worker

: Drain down and flush system prior to equipment break-in or maintenance.

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Drain down and flush system prior to equipment break-in or maintenance. Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training. If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. For further specification, refer to section 8 of the SDS. Wear suitable coveralls to prevent exposure to the skin. Clear spills immediately.

Use as a fuel - Professional

Personal protection

: Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training.

Contributing scenario controlling worker exposure for 5: Storage

Process control/change

measures

: Store substance within a closed system.

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Store substance within a closed system.

Contributing scenario controlling worker exposure for 6: Drum/batch transfers

Process control/change

measures

: Wear suitable gloves tested to EN374.

prevent/limit releases, dispersion and exposure

Organizational measures to : Use drum pumps or carefully pour from container.

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene

: Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training. If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. For further specification, refer to section 8 of the SDS. Ensure no splashing occurs during transfer.

Contributing scenario controlling worker exposure for 7: Bulk transfers

Process control/change

measures

Wear suitable gloves tested to EN374.

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training. If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. For further specification, refer to section 8 of the SDS. Ensure no splashing occurs during transfer.

Contributing scenario controlling worker exposure for 8: Refuelling

Process control/change

measures

Wear suitable gloves tested to EN374.

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training. If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. For further specification, refer to section 8 of the SDS. Ensure no splashing occurs during transfer.

Contributing scenario controlling worker exposure for 9: General measures (aspiration)

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Do not ingest. If swallowed then seek immediate medical assistance.

Contributing scenario controlling worker exposure for 10: General measures (flammability)

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : For measures to control risks from physicochemical properties, refer to main body of the SDS, section 7 and/or 8.

Contributing scenario controlling worker exposure for 11: Closed systems

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Handle substance within a closed system.

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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. Sample via a closed loop or other system

to avoid exposure.

Section 3 - Exposure estimation and reference to its source

Website: : Not applicable.

Exposure estimation and reference 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 reference 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 reference 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 reference 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 reference 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 reference 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

: Not available.

reference to its source

Exposure estimation and reference 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

: Not available.

reference to its source

Exposure estimation and reference 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

: Not available.

reference to its source

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Use as a fuel - Professional

Exposure estimation and reference to its source - Workers: 9: General measures (aspiration)

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 reference to its source - Workers: 10: General measures (flammability)

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 reference to its source - Workers: 11: 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 reference to its source - Workers: 12: 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.

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.

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