

SAFETY DATA SHEET

Safety data sheet according to (EC) No. 1907/2006.

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

1.1. Product identifier:**DCC Energi Danmark A/S****1.2. Relevant identified uses of the substance or mixture and uses advised against:**

Engine fuel.

1.3. Details of the supplier of the safety data sheet:

DCC Energi Danmark A/S

Nærum Hovedgade 8 Phone: +45 7010 2200

DK-2850 Nærum

Denmark

Responsible person for the safety data sheet (e-mail): erhverv@dccenergi.dk

1.4. Emergency telephone number:

NHS (England or Wales): Dial 111 or 0845 4647 NHS 24 (Scotland): Dial 111

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture:

CLP (1272/2008): Asp. Tox. 1;H304

2.2. Label elements:**Danger**

H304: May be fatal if swallowed and enters airways.
 EUH066: Repeated exposure may cause skin dryness or cracking.
 P301+P310 + P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 Immediately call a POISON CENTER/doctor.
 P405: Store locked up.
 P501: Dispose of contents/container according to local regulations.

2.3. Other hazards:

Spills may create a slipping hazard.

PBT/vPvB: No ingredients are PBT/vPvB, according to the criteria in REACH Annex XIII.

Endocrine disrupting properties: The substances are not identified as having endocrine disrupting properties in accordance with the criteria set out in Regulation 2017/2100 or Regulation 2018/605.

SECTION 3: Composition/information on ingredients

3.2. Mixtures: Paraffinic diesel based on a biological feedstock.

% w/w	Substance name	CAS-no.	EC-no.	Index-no.	REACH reg.-no.	Classification
100	Renewable hydrocarbons (diesel type fraction)	928771-01-1	618-882-6	-	01-2119450077-42	Asp. Tox. 1;H304

Wording of hazard statements – see section 16.

SECTION 4: First-aid measures

4.1. Description of first aid measures:

General: Remove clothes contaminated with oil and dispose of them securely. Do not put oil-soiled cloths in the pocket.

Inhalation: Remove to fresh air. Keep at rest. In case of discomfort: Seek medical advice.

Skin contact: Remove all contaminated clothing. Wash skin with water and soap. In case of discomfort: Seek medical advice.

Eye contact: Flush with water or physiological salt water, holding eyelids open, remember to remove contact lenses, if any. If irritation persists: Seek medical advice.

Ingestion: Rinse mouth and drink plenty of water. Do not induce vomiting. In case of discomfort: Seek medical advice.

4.2. Most important symptoms and effects, both acute and delayed:

Slight irritation of skin and eyes. May defat the skin, cause eczema, cracking, redness and itching.

Ingestion may cause nausea, vomiting and diarrhea.

4.3. Indication of any immediate medical attention and special treatment needed:

Show this safety data sheet to a physician or emergency ward.

SECTION 5: Firefighting measures

5.1. Extinguishing media:

Use water spray (never water jet), dry chemical, foam or carbon dioxide.

5.2. Special hazards arising from the substance or mixture:

Do not inhale smoke fumes. In case of fire, the product may form hazardous decomposition products: Carbon oxides.

5.3. Advice for firefighters:

Use breathing apparatus with an independent source of air.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment - see section 8. Avoid further spreading. Ensure good ventilation.

6.2. Environmental precautions:

Do not empty into drains - see section 12. Inform appropriate authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up:

Spillage forms a slippery surface in contact with water (risk of slipping accidents). Absorb spilled liquid with inert material and place in a suitable container for disposal. Wash with a hard surface cleaner. Further handling of spillage - see section 13.

6.4. Reference to other sections:

See above.

SECTION 7: Handling and storage

7.1. Precautions for safe handling:

Avoid breathing vapours or aerosols. Avoid contact with skin, eyes and clothing. Wash hands if contaminated. Change contaminated clothes immediately. Take action to prevent static discharges.

7.2. Conditions for safe storage, including any incompatibilities:

Store securely and out of reach of unauthorized personnel and separated from food, feed, drugs etc. In sealed container at a cool and well-ventilated location. Storage must be in compliance with all regulatory requirements pertaining to flammable liquids.

7.3. Specific end use(s):

See section 1.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters:

Occupational exposure limits (EH40/2005 with later amendments):

	TWA	STEL	Comments
Normal and branched chain alkanes $\geq C_7$	1200 mg/m ³	-	-

DNEL: Workers - Inhalation; Long-term systemic effects: 147 mg/m³
 Workers - Dermal; Long-term systemic effects: 42 mg/kg body weight per day
 Consumers - Inhalation; Long-term systemic effects: 94 mg/m³
 Consumers - Dermal; Long-term systemic effects: 18 mg/kg body weight per day

PNEC: Not available

8.2. Exposure controls:

Appropriate engineering controls: Ensure good ventilation.

Personal protective equipment:

Respiratory protection: Respiratory protection normally not necessary. In case of inadequate ventilation: Use an approved mask with class A/P2 combination filter (EN 14387/EN 140).

The filter has a limited lifetime and must be changed. Read the manufacturer's instructions.

Skin protection: Wear protective gloves (EN374) of e.g. nitrile ($> 0.4\text{mm}$). It has not been possible to find data for breakthrough time. In case of spill on the glove it is recommended to change it after use.

Eye protection: Use safety goggles (EN166) when there is risk of splashes.

Environmental exposure controls: None particular.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties:

Physical state:	Liquid
Colour:	Clear
Odour:	Diesel
Melting point/freezing point (°C):	Pour point $< -20^\circ\text{C}$
Boiling point or initial boiling point and boiling range (°C):	180-320
Flammability (solid, gas):	Not determined
Lower and upper explosion limit (vol-%):	Not determined
Flash point (°C):	> 61
Auto-ignition temperature (°C):	204
Decomposition temperature (°C):	Not determined
pH:	Not determined
Kinematic viscosity (mm ² /s at 40°C):	2.6
Solubility:	Insoluble in water
Partition coefficient n-octanol/water (log value):	> 6.5
Vapour pressure (Pa, 20°C):	87
Density and/or relative density (g/cm ³ , 15°C):	0.77-0.79
Relative vapour density:	Not determined
Particle characteristics:	Not determined, liquid
9.2. Other information:	Conductivity: $< 100\text{ pS/m}$

SECTION 10: Stability and reactivity

10.1. Reactivity:

No available information.

10.2. Chemical stability:

Stable under normal conditions - see section 7.

10.3. Possibility of hazardous reactions:

None known.

10.4. Conditions to avoid:

Strong heating and ignition sources.

10.5. Incompatible materials:

Strong oxidizing agents.

10.6. Hazardous decomposition products:

When heated to very high temperatures (decomposition) it emits toxic gases: Carbon oxides.

SECTION 11: Toxicological information

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

Acute toxicity: Based on available data, the classification criteria are not met.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/irritation: Based on available data, the classification criteria are not met.

Respiratory or skin sensitization: Based on available data, the classification criteria are not met.

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure: Based on available data, the classification criteria are not met.

STOT-repeated exposure: Based on available data, the classification criteria are not met.

Aspiration hazard: Asp. Tox. 1;H304. May be fatal if swallowed and enters airways.

Hazard class	Data	Test	Data source
Acute toxicity:			
Inhalation	Not determined	No information	Suppl.
Dermal	LD ₅₀ (rabbit) > 2000 mg/kg	EC B3	Suppl.
Oral	LD ₅₀ (rat) > 2000 mg/kg	EC B1 tris	Suppl.
Corrosion/irritation:	Slight irritation, eyes and skin	No information	Suppl.
Sensitization:	Not a skin sensitizer	No information	Suppl.
CMR:	No CMR effects	No information	Suppl.

Information on likely routes of exposure: Inhalation, skin and ingestion.

Symptoms:

Inhalation: The low volatility makes inhalation of vapours at room temperature unlikely. Aerosols may cause irritation of the respiratory tract. Droplets smaller than 0.005 mm can penetrate deep into the lungs and lead to chemical pneumonia and water in the lungs. Note that symptoms (breathing difficulties) can occur several hours after exposure.

Skin: Can have an irritating and desiccating effect. The oil can also lead to spots and bulges in the places where contaminated clothes rub against the skin.

Eyes: May cause irritation with redness, pain and maybe blurred vision.

Ingestion: Ingestion may cause nausea, vomiting and diarrhea.

Ingestion or vomiting can cause small drops of the product to enter into the lungs and lead to chemical pneumonia and water in the lungs. Note that symptoms (breathing difficulties) can occur several hours after exposure. Chronic effects: Nicotine is a highly addictive substance. Frequent contact with skin may cause sensitization to d-Limonene. Symptoms are redness, swelling and itching.

Chronic effects: Regular or prolonged contact with skin may cause degreasing of the skin, cause dryness, cracked skin and eczema.

11.2. Information on other hazards: None known.

SECTION 12: Ecological information

12.1. Toxicity:

Aquatic	Data	Test (Media)	Data source
Fish	LC ₅₀ > 1000 mg/l	OECD 203	Suppl.
Daphnia	EC ₅₀ > 100 mg/l	OECD 202	Suppl.
Algae	EC ₅₀ > 100 mg/l	OECD 201	Suppl.

12.2. Persistence and degradability:

The product is readily degradable (OECD 301B).

12.3. Bioaccumulative potential:

Log K_{ow} (calculated) > 6.5 – Possible significant bioaccumulation.

12.4. Mobility in soil:

The product floats on water. When spilled on soil, the product will adhere strongly to the soil particles and have low mobility.

Log K_{oc} > 5.6 (EC C19).

12.5. Results of PBT and vPvB assessment:

The ingredients are not considered PBT/vPvB according to criteria in Annex XIII.

12.6. Endocrine disrupting properties:

None known.

12.7. Other adverse effects:

None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods:

Occupational: Disposal should be according to local, state or national legislation. Dispose of through authority facilities or pass to chemical disposal company.

EWC-Code:

13 07 01 (product itself) and 15 02 03 (Paper towel, inert material etc. contaminated with the mixture)

SECTION 14: Transport information

14.1. UN number or ID number: 1202

14.2. UN proper shipping name: Diesel Fuel

14.3. Transport hazard class(es): 3

14.4. Packing group: III

14.5. Environmental hazards: None.

14.6. Special precautions for user: None.

14.7. Maritime transport in bulk according to IMO instruments: Not relevant.

SECTION 15: Regulatory information

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

None.

15.2. Chemical Safety Assessment:

No CSR.

SECTION 16: Other information

Hazard statements mentioned in section 2 and 3:

H304: May be fatal if swallowed and enters airways.

H332: Repeated exposure may cause skin dryness or cracking.

Abbreviations:

CMR = Carcinogenicity, mutagenicity and reproductive toxicity.

CSR = Chemical Safety Report

DNEL = Derived No-Effect Level

EC₅₀ = Effect Concentration 50%

EL₅₀ = Effect Loading 50%

FW = Fresh Water

LC₅₀ = Lethal Concentration 50%

LD₅₀ = Lethal Dose 50%

LL₅₀ = Lethal Loading 50%

PBT = Persistent, Bioaccumulative, Toxic

PNEC = Predicted No-Effect Concentration

vPvB = very Persistent, very Bioaccumulative

Literature:

EPA Ecotox = US Environmental Protection Agency.

ECHA = REACH registration dossier from the ECHA website.

Training advice:

No special training is required. However, the user should be well instructed in the execution of the task, be familiar with this Safety Data Sheet and have normal training in the use of personal protective equipment.

Changes since the previous edition:

Not relevant.

Prepared by: Altos a/s – Tonsbakken 16-18 – DK-2740 Skovlunde - Phone +45 - 38 34 77 98 /AP - Quality control: PH