Safety Data Sheet

SDS date: 10-10-2017 **SDS version: 1.1**

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

1.1. Product Identifier

Trade Name: Miles Diesel
Product- no.: 200, 201
CAS no.: 68334-30-5
EINECS no.: 269-822-7
REACH reg. no.: 01-2119484664-27-0135

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

Recommended uses: PC13 – Fuel
Manufacture of diesel, Industrial
Use as an Intermediate, Industrial
Fuel Distribution, Industrial
Mixing and repackaging of diesel, Industrial
Use in coatings, Industrial
Use in coatings, Professional
Use of Diesel in Oil/Gas Field Drilling, Industrial
Use of Diesel in Oil/Gas Field Drilling, Professional
Use of Diesel in Lubricants, Industrial
Use of Diesel in Lubricants, Professional
Lubricants: Low/ High environmental release, Professional
Metal working fluids /rolling oils, Industrial
Use as binders and release agents, Industrial
Use as binders and release agents, Professional
Use as a fuel, Industrial
Use as a fuel, Professional
Use as a fuel, Consumer
Use as functional fluid, Industrial
Use in road & construction applications, Professional
Explosives manufacture & use, Professional
Rubber production and processing, Industrial

Uses advised against: This product must not be used for purposes other than those recommended without first seeking the advice of the supplier.

1.3. Details of the supplier of the safety data sheet

Contact person and E-mail:
labsju@circlekeurope.com

The Safety data sheet is completed and validated by:
mediator A/S, Centervej 2, DK-6000 Kolding. Consultant: DH

1.4. Emergency telephone number
+353 1 808 8232

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CLP (1272/2008): Flam. Liq. 3;H226, Asp. Tox. 1;H304, Skin Irrit. 2;H315, Acute Tox. 4;H332, Carc. 2;H351, STOT RE 2;H373, Aquatic Chronic 2;H411.
See full text of H-phrases in section 16.

2.1.2.

Physical and chemical hazards: Flammable.

Health effect on humans: May be fatal if swallowed and enters airways. Prolonged and repeated contact with the product may cause skin cancer. Organic solvents may be absorbed into the body by inhalation and ingestion and cause permanent damage to the nervous system, including the brain. May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated contact with skin may cause redness, itching, irritation and eczema/chapping.

2.2. Label elements

Signal word:
Danger

H226 - Flammable liquid and vapour.
H304 - May be fatal if swallowed and enters airways.
H315 - Causes skin irritation.
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.

P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
P261 - Avoid breathing vapours.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310+P331 - IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Do NOT induce vomiting.
P501 - Dispose of contents/container in accordance with local regulation.

2.3. Other hazards

This substance is not classified as PBT or vPvB.

Additional labelling:

Contains: Diesel.

Additional warnings:

No data.

SECTION 3: Composition/information on ingredients

3.1./3.2. Substances/Mixtures

Substance	REACH Reg.nr.	CAS nr.	EINECS no.	CLP-classification	w/w%	Note
Fuels, diesel	01-2119484664-27-0135	68334-30-5	269-822-7	Flam.Liq.3 H226; Asp. Tox.1;H304, Skin Irrit. 2;H315, Acute Tox. 4;H332, Carc. 2;H351, STOT RE 2;H373, Aquatic Chronic 2;H411	≤ 100	1
FAME	01-2119471664-32-0004	67762-38-3	267-015-4	-	0-7	-

1 = Capable of causing cancer.

Note: The components given classification is according to the list of harmonised classifications and labelling (Annex VI) or other sources without regard to the notes of Annex VI. The classification of the product itself, consideration was given to these notes. The product may contain additional components which do not contribute to the classification.

See full text of H-phrases in section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General: Remove victim immediately from source of exposure. General first aid, rest, warmth and fresh air.

Inhalation: Seek fresh air. Keep victim under observation. Place unconscious person on the side in the recovery position and ensure breathing. Perform artificial respiration if breathing has stopped. Get medical advice/attention.

Ingestion: Do not induce vomiting. If vomiting occurs, keep head low so that stomach contents do not enter lungs. Call an ambulance or medical advice.

Skin contact: Immediately remove contaminated clothing. Wash skin with soap and water. Seek medical advice in case of persistent discomfort.

Eye contact: Open eye wide, remove any contact lenses and flush immediately with water (preferably using eye wash equipment). Seek medical advice immediately. Continue flushing until medical attention is obtained.

Burns:	Flush with water until pain ceases. Remove clothing that is not stuck to the skin – seek medical advice/transport to hospital. If possible, continue flushing until medical attention is obtained.
Additional information:	When obtaining medical advice, show the safety data sheet or label. Symptoms: See section 11.

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

Harmful if inhaled. May be fatal if swallowed and enters airways.

Carcinogenic effects: This product contains substances which are considered or proven to be carcinogenic. The substances are either classified as carcinogenic or as substances thought to be carcinogenic. The danger may lie in inhalation, skin contact or ingestion.

Irritation effects: This product contains substances which cause irritation to skin and eyes, or when inhaled. Contact with locally irritative substances can cause the area of contact to be more prone to absorb damaging substances such as allergens.

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

If symptoms such as eczema, dyspnoea, burns or damage to eyes occurs, consult a doctor.

When obtaining medical advice, show the safety data sheet or label.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Extinguish with powder, foam, carbon dioxide or water mist. Do not use water stream, as it may spread the fire. Use water or water mist to cool non-ignited stock.

5.2. Special hazards arising from the substance or mixture

Avoid inhalation of vapour and fumes – seek fresh air. Product decomposes in fire conditions and toxic gases such as CO and CO_2 may be released. Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Fire fighters should use proper protection gear. A closed container, which is exposed to fire, should be cooled with water. Do not allow the water from the fire extinction run into sewer systems and water streams.

5.3. Advice for firefighters

Fire-fighters should wear appropriate protective equipment. Self-Contained Breathing Apparatus (SCBA) and chemical protective suit shall be worn by fire fighters. Water spray should be used to cool containers. Keep run-off water out of sewers and water sources. Send contaminated extinguishing water for destruction.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

See section 8 for type of protective equipment. Avoid breathing and contact with skin and eyes. Do not smoke, use open fire or other sources of ignition. Provide adequate ventilation. Warn everybody of potential hazards and evacuate if necessary.

6.2. Environmental precautions

Prevent spillage from entering drains and/or surface water - See section 12. Notify proper authorities in case of contamination of soil or aquatic environment or discharge to drains.

6.3. Methods and material for containment and cleaning up

Contain and absorb spill with sand or other absorbent, non-combustible material and transfer to suitable waste containers. See section 13 for instructions on disposal.

6.4. Reference to other sections

See above.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Use the product under well-ventilated conditions, preferably outdoors. Use adequate warning and safety signs to mark areas with risk of exposure to carcinogens or mutagens, including 'No smoking' signs. Running water and eyewashes shall be provided. Washing facilities should be located in the immediate work area. See section 8 for information about precautions for use and personal protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

The product should be stored safely, out of reach of children and away from food, animal feeding stuffs, medicines, etc. Store in a dry, cool, well-ventilated area. Store fireproof. Storage for flammable liquids must follow local regulations for flammable stock.

7.3. Specific end use(s)

See section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits according to the Health and Safety Authority (S.I. No. 619 of 2001):

Substance	Exposure limit (8-hour reference period)	Exposure limit (15-minute reference period)	Note
Diesel fuel/kerosene	100 mg/m^3	-	-

DNEL and PNEC values:

DNEL – Fuels, diesel (68334-30-5):

Inhalation	Short term (acute)	Systemic effect	Worker	5000 mg/m^3 15 min
Dermal	Long term (repeated)	Systemic effect	Worker	2,9 mg/kg 8h
Inhalation	Long term (repeated)	Systemic effect	Worker	68 mg/m^3 8h
Inhalation	Short term (acute)	Systemic effect	Consumer	2600 mg/m^3 15 min
Dermal	Long term (repeated)	Systemic effect	Consumer	1,3 mg/kg
Inhalation	Long term (repeated)	Systemic effect	Consumer	20 mg/m^3 24h

PNEC - Fuels, diesel (68334-30-5):

Water	Fresh	0,083 mg/l

8.2. Exposure controls

See enclosed exposure scenarios for further information.

Appropriate engineering controls:

Wash hands before breaks, before using restroom facilities, and at the end of the work. Wear the personal protective equipment specified below.

Personal protective equipment:

Breathing equipment:	**Consumer use:** Not required. **Professional use:** Light use (small volume, short exposure (less than 10 minutes): Not required. Medium use (medium volume, medium long-term exposure (> 1 hour): In case of insufficient ventilation, wear respiratory protective equipment with filter A2. Respiratory appliances shall be in compliance with one of the following standards: EN 136/140/145.
Hand protection:	**Consumer use:** Plastic or rubber gloves recommended. **Professional use:** Wear protective gloves made of Viton or nitrile rubber. Penetration time: >480 min.
Eye protection:	**Consumer use:** Not required. **Professional use:** Wear safety goggles if there is a risk of eye splash. Personal eye protection shall comply with EN 166.
Body and skin protection:	**Consumer use:** Not required. **Professional use:** Wear suitable protective clothing. possibly wear coveralls.

Environmental exposure controls:

Ensure compliance with local regulations for emissions. Make sure that when using the product damming material is available in immediate vicinity.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:	Yellow liquid
Odour:	Characteristic
Odour threshold:	-
pH:	-
Melting point/ Freezing Point (°C):	>= -40 - <= 6
Initial boiling point and boiling range (°C):	150 – 390
Flash point (°C):	>55
Evaporation rate:	-
Flammability (solid, gas)	-
Upper / lower flammability or explosion limits (vol-%):	1-6
Vapour pressure (mbar, 25 °C):	<1,00 kPa @ 37°C
Vapour density (air=1)	-
Relative density:	830 kg/m^3
Solubility(ies):	Not soluble in water
Partition coefficient: n-octanol/water:	3/6
Auto-ignition temperature (°C):	> 220
Decomposition temperature (°C):	-
Viscosity (mm^2/sek):	1,50 – 4,50 cSt (mm^2/s) @ 40 °C
Explosive properties:	-
Oxidising properties:	-

9.2. Other information

Combustion heat; High / Low:	42,6/45,7 MJ/kg
Sulpher content, mass-%:	-

SECTION 10: Stability and reactivity

10.1. Reactivity
The product is considered non-reactive.
10.2. Chemical stability
The product is stable when used in accordance with the supplier's directions. Product vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.
10.3. Possibility of hazardous reactions
No known risk of hazardous reactions.
10.4. Conditions to avoid
Avoid heating and contact with ignition sources.
10.5. Incompatible materials
Avoid contact with strong oxidising agents.
10.6. Hazardous decomposition products
Product decomposes in fire conditions or when heated to high temperatures, and toxic gases such as CO and CO_2 may be released.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute Toxicity: Harmful by inhalation. Inhalation of oil spray mist may cause chemical pneumonia.

Substance	Route of exposure	Species	Test	Result
Fuels, diesel	Oral	Rat	LD50 (OECD 420)	> 7600 ml/kg
Fuels, diesel	Dermal	Rabbit	LD50 (OECD 434)	> 4300 mg/kg bw/day
Fuels, diesel	Inhalation	Rat	LC50 (4h) (OECD 403)	4,1 mg/l

Skin corrosion/irritation: Irritating to skin - may cause reddening. Degreases and dries the skin. Repeated exposure may cause skin dryness or cracking.

Substance	Route of exposure	Species	Test	Result
Fuels, diesel	Dermal	Rabbit skin	OECD 404	Irritant to skin

Serious eye damage/irritation: Spray and vapour in the eyes may cause irritation and smarting. The effects are expected to be reversible.

Substance	Route of exposure	Species	Test	Result
Fuels, diesel	Dermal	Rabbit Eyes	OECD 405	Non-irritating to the eyes

Respiratory or skin sensitisation: Based on existing data, the classification criteria are deemed not to have been met.

Substance	Route of exposure	Species	Test	Result
Fuels, diesel	Dermal	Guinea pig skin	OECD 406	Not sensitising

Germ cell mutagenicity: Based on existing data, the classification criteria are deemed not to have been met.

Substance	Route of exposure	Species	Test	Result
Fuels, diesel	-	-	Germ cell mutagenicity (OECD 475)	Based on available data, the classification criteria are not met

Carcinogenicity: The product contains diesel which is suspected of causing cancer.

Substance	Route of exposure	Species	Test	Result
Fuels, diesel	-	Mouse	Carcinogenicity (OECD 451 – 104 w)	Suspected of causing cancer

Reproductive toxicity: Based on existing data, the classification criteria are deemed not to have been met.

Substance	Route of exposure	Species	Test	Result
Fuels, diesel	Dermal	Rat	Reproductive toxicity (OECD 421 – 20 d	Based on available data, the classification criteria are not met

STOT-single exposure: Based on existing data, the classification criteria are deemed not to have been met.

STOT-repeated exposure: May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated inhalation of vapours may cause damage to the central nervous system.

Substance	Route of exposure	Species	Test	Result
Fuels, diesel (STOT RE)	Dermal	Rat	NOAEL (28 d)	0,5 ml/kg
Fuels, diesel (STOT RE)	Dermal	Rat	NOAEL (90 d)	30 mg/kg/day
Fuels, diesel (STOT RE)	Inhalation	Rat	NOAEL (90 d)	>1710 mg/m^3

Aspiration hazard: May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

12.1. Toxicity

Substance	Test duration	Species	Test	Result
Fuels, diesel	96 h	Fish	LC50	21 mg/L
Fuels, diesel	48 h	Daphnia	EC50	68 mg/L
Fuels, diesel	72 h	Algae	EC50	22 mg/L
Fuels, diesel	14 d	Fish	NOEL	0,083 mg/L
Fuels, diesel	-	Daphnia	NOEL	0,21 mg/L

12.2. Persistence and degradability

Substance	Biodegradability	Test	Result
Fuels, diesel	Yes	OECD Guideline 301 B	57,5 % after 28 days

12.3. Bioaccumulative potential

Substance	Potential bioaccumulation	LogPow	BCF
No data	-	-	-

12.4. Mobility in soil

The product contains a substance with high mobility in soil, which constitutes a risk for leaching to groundwater.

12.5. Results of PBT and vPvB assessment

The product does not meet the criteria for PBT or vPvB.

12.6. Other adverse effects

Toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Collect spills and waste in closed, leak-proof containers for disposal at the local hazardous waste site.

EWC: depends on industry and use, for exsample:

Waste code	Waste type
13 07 01	Fuel oil and diesel
14 06 03	Other solvents and solvent mixtures
15 02 02	Absorbents, filter materials

Specific labelling

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Contaminated packaging:

Uncleansed packaging is to be disposed of via the local waste-removal scheme.

SECTION 14: Transport information

The product is covered by the rules for transport of dangerous goods.

14.1 -14.4.

Carriage of Dangerous Goods by Road/Rail (ADR/RID)

UN-no.:	Proper shipping name	Transport hazard class(es)	Packing group
1202	DIESEL FUEL	3	III

Carriage of Dangerous Goods by Inland Waterways (ADN)

UN-no.:	Proper shipping name	Environmental hazards	Environmental hazards tanker	Transport hazard class(es)	Packing group
1202	DIESELOLJE	Yes	N2, F	3	III

International Maritime Dangerous Goods (IMDG)

UN-no.:	Proper shipping name	Transport hazard class(es)	Packing group
1202	DIESEL FUEL	3	III

Transport of Dangerous Goods by Air (ICAO-TI / IATA-DGR)

UN-no.:	Proper shipping name	Transport hazard class(es)	Packing group
1202	DIESEL FUEL	3	III

14.5. Environmental hazards

If the quantity transported exceeds 5 kg or litre must be labelled with an environmental hazard.

14.6. Special precautions for user

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14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not relevant.

SECTION 15: Regulatory information

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

Sources:
EC regulation 1907/2006 (REACH).
Directive 2000/532/EC.
EC Regulation 1272/2008 (CLP).
Health and Safety Authority (S.I. No. 619 of 2001).

Restrictions for application:
Seveso directive: 96/82/EC: People under the age of 18 may not carry out any work causing harmful exposure to this product. People above the age of 15 are exempted this rule, if the product is a part of an education/training.

Demands for specific education:
A thorough knowledge of this safety data sheet is a prerequisite.

Additional labelling:
No data.

15.2. Chemical safety assessment

Chemical safety assessment has been performed for the following substances: EC no: 269-822-7: Fuels, diesel.

SECTION 16: Other information

Other information:
The user must be instructed in the proper work procedure and be familiar with the contents of this SDS. Regarding the use restrictions, see section 15.
This document contains important information to ensure the safe storage, handling and use of this product. The information in this document should be made available to people in your organization responsible for advising on safety matters.

Abbreviations and acronyms used:
STOT: Specific Target Organ Toxicity.
DNEL: Derived No Effect Level.
PNEC: Predicted No Effect Concentration.
NOEC: No Observed Effect Concentration.
NOAEL: No-observed-adverse-effect level.
PBT: Persistent, Bioaccumulative and Toxic.
vPvB: Very Persistent and Very Bioaccumulative.

Full text of H-phrases as mentioned in section 2+3:
H226 - Flammable liquid and vapour.
H304 - May be fatal if swallowed and enters airways.
H315 - Causes skin irritation.
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.

Other

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

Important literature references and data sources:

Current legislation. Information from suppliers of raw materials. CONCAWE-report no.12/08 Hazard classification and labelling of petroleum substances in the European Economic Area 2012.
Exposure scenarios enclosed.
https://circlek.chemicontrol.dk/Download/Exposure/-3968999994

Minor changes have been made in following sections:

Section 11.

This safety data sheet replaces version:

1.0 (06-03-2017).

Information in this safety data sheet (SDS) is based on the information we had at the time of preparation of the SDS, and they have been under the assumption that the product is used under the prescribed conditions and in accordance with the information specified on the packaging or in technical literature. Any other use of the product, if necessary. along with other products or processes is at the user's own risk.