

Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2024 and the Hazardous Products Regulations (HPR) WHMIS 2022
Issue date: 2025-04-16 Revision date: 2025-04-16 Version: 1.0

SECTION 1 Identification

1.1. Product identifier

Product form : Mixture
Product name : MARINE DIESEL

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Use of substance/mixture : Diesel fuels are distillate fuels suitable for use in high and medium speed internal combustion engines of the compression ignition type. Mining diesels, marine diesels, MDO and naval distillates may have a higher flash point requirement.

1.4. Supplier's details

Manufacturer

Kildair Service ULC
1000, Montée des Pionniers, bureau 110
Terrebonne, Québec, J6V 1S8 - Canada
T 450 756-8091

Distributor

Add the name, address and tel. number of the US manufacturer or importer who operates in the US

1.5. Emergency phone number

Emergency number : 450 746-0999 ext. 300; 1-800-465-0994 ext. 300 (24/7)

SECTION 2 Hazard identification

2.1. Classification of the substance or mixture

GHS classification

Flammable liquids, Category 4
Skin corrosion/irritation, Category 2
Serious eye damage/eye irritation, Category 2A
Carcinogenicity, Category 2
Aspiration hazard, Category 1

2.2. Label elements

GHS labelling

Hazard pictograms (GHS) :



Signal word (GHS) :

Danger

Hazard statements (GHS) :

Combustible liquid
May be fatal if swallowed and enters airways
Causes skin irritation
Causes serious eye irritation
Suspected of causing cancer.

Precautionary statements (GHS) :

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Wash hands, forearms and face thoroughly after handling.

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Wear protective gloves
If swallowed: Immediately call a poison center or doctor.
Do NOT induce vomiting.
If on skin: Wash with plenty of water.
Take off contaminated clothing and wash it before reuse.
If skin irritation occurs: Get medical advice or attention.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice or attention.
If exposed or concerned: Get medical advice/attention.
Store in a well-ventilated place.
Store locked up.
Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

2.4. Hazards not otherwise classified

No additional information available

2.5. Unknown acute toxicity

Not applicable

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%Weight
Kerosine(petroleum),hydrodesulfurized	Kerosine(petroleum),hydrodesulfurized Kerosene, hydrodesulfurized / Kerosine, petroleum, hydrodesulfurized (A complex combination of hydrocarbons obtained from a petroleum stock by treating with hydrogen to convert organic sulfur to hydrogen sulfide which is removed. It consists of hydrocarbons having carbon numbers predominantly in the range of C9-16 and boiling in the range of approximately 150-290°C.) / Hydrodesulfurized kerosene / Kerosene, petroleum, hydrodesulfurized / Kerosine, petroleum, hydrodesulphurized / Kerosine (petroleum), hydrodesulfurized	CAS-No.: 64742-81-0	60 – 80

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Name	Chemical name / Synonyms	Product identifier	%Weight
Alkanes, C10-20-branched and linear	Alkanes, C10-20-branched and linear Alkanes C10-20, branched and linear / Alkanes, C10-20, straight and linear	CAS-No.: 928771-01-1	10 – 30

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

SECTION 4 First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures general	: IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
First-aid measures after skin contact	: IF ON SKIN: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: IF SWALLOWED: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Immediately call a POISON CENTER/doctor.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects after inhalation	: May cause irritation to the respiratory tract.
Symptoms/effects after skin contact	: Causes skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.
Symptoms/effects after eye contact	: Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
Symptoms/effects after ingestion	: May be fatal if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea. May be fatal if swallowed and enters airways. May result in aspiration into the lungs, causing chemical pneumonia.
Chronic symptoms	: Suspected of causing cancer.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Other medical advice or treatment	: Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
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SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.

5.2. Specific hazards arising from the chemical

Fire hazard	: Combustible liquid. Vapours may be heavier than air and may travel along the ground to a distant ignition source and flash back. Products of combustion may include, and are not limited to: oxides of carbon. Nitrogen oxides. Oxides of sulfur. hydrogen sulphide, hydrogen sulfide. Irritating vapours.
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5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Move containers away from the fire area if this can be done without risk. Cool closed containers exposed to fire with water spray.
Protection during firefighting	: Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

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SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Use special care to avoid static electric charges.

For non-emergency personnel

No additional information available

For emergency responders

Environmental precautions : Prevent entry to sewers and public waters.

6.2. Methods and materials for containment and cleaning up

For containment : Stop leak if safe to do so. Remove ignition sources. Absorb and/or contain spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container. Do not flush into surface water or sewer system. Wear recommended personal protective equipment.

Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal. Provide ventilation.

For further information refer to section 8: "Exposure controls/personal protection"

SECTION 7 Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from sources of ignition - No smoking. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke.

Hygiene measures : Wash contaminated clothing before reuse. Always wash hands after handling the product.

7.2. Conditions for safe storage, including incompatibilities

Storage conditions : Keep out of the reach of children. Keep container tightly closed. Store in a dry, cool and well-ventilated place. Store in a well-ventilated place. Keep cool. Store locked up.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

MARINE DIESEL

Kerosine(petroleum),hydrodesulfurized (64742-81-0)

USA - ACGIH - Occupational Exposure Limits

ACGIH OEL TWA	200 mg/m ³ (application restricted to conditions in which there are negligible aerosol exposures-total Hydrocarbon vapor (Kerosene/Jet fuels)
ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans, Skin - potential significant contribution to overall exposure by the cutaneous route

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station. Provide readily accessible eye wash stations and safety showers.

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Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment

Hand protection:
Wear suitable gloves resistant to chemical penetration. Consult glove manufacturer's product information on material suitability and material thickness.
Eye protection:
Wear eye/face protection
Skin and body protection:
Wear suitable protective clothing
Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. SDSs cannot provide detailed and complete respiratory protection guidelines. Selection of respiratory protection must be done by a qualified person who has assessed the work environment.

Other information:

Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	: Liquid
Appearance	: Bright. Oily.
Colour	: Clear to yellow (May be dyed red)
Odour	: Mild petroleum odour
Odour threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 150 – 371 °C / 302 - 699.8 °F
Flash point	: > 60 °C / >140 °F (closed cup)
Flammability (solid, gas)	: Combustible
Vapour pressure	: 1 kPa (7.5 mm Hg) [room temperature]
Relative vapour density at 20°C/ 68 °F	: 4.5 [Air=1]
Relative density	: 0.8 – 0.89
Solubility	: Insoluble in water.
Partition coefficient n-octanol/water	: No data available
Auto-ignition temperature	: 225 °C / 437 °F
Decomposition temperature	: No data available
Viscosity, kinematic	: 2 – 6 mm ² /s / 0.02 - 0.06 cm ² /s @40°C / 104°F
Explosive limits	: Lower explosion limit: 0.7 vol % Upper explosion limit: 6 vol %
Particle characteristics	: No data available

Kerosine(petroleum),hydrodesulfurized (64742-81-0)	
Boiling point	146 – 299 °C Atm. press.: 101,325 kPa
Flash point	21 °C (closed cup)
Auto-ignition temperature	> 200 °C (at 1013 hPa)
Vapour pressure	0.001 – 0.16 hPa (at 20 °C)

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Alkanes, C10-20-branched and linear (928771-01-1)

Boiling point	400 – 559 (at 1011.5 hPa)
Vapour pressure	87.1 Pa (at 25 °C)

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

SECTION 10 Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable under normal conditions. May form flammable/explosive vapour-air mixture.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Heat. Sources of ignition. Incompatible materials.

10.5. Incompatible materials

Strong oxidizers. Strong acids.

10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon. May release flammable gases. Nitrogen oxides. Sulphur oxides. smokes. Irritating vapours.

SECTION 11 Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified.
Acute toxicity (dermal)	: Not classified.
Acute toxicity (inhalation)	: Not classified.

Kerosine(petroleum),hydrodesulfurized (64742-81-0)

LD50 oral rat	> 5000 mg/kg (Source: EPA_HP V)
LD50 dermal rabbit	> 2000 mg/kg (Source: CHEMVIEW)
LC50 inhalation rat	> 5200 mg/m ³ (Exposure time: 4 h Source: EPA_HP V)

Alkanes, C10-20-branched and linear (928771-01-1)

LD50 dermal rat	> 2000 mg/kg (Source: ECHA_API)
LC50 inhalation rat	1 – 5 mg/l air Animal: rat, Guideline: OECD Guideline 436 (Acute Inhalation Toxicity: Acute Toxic Class Method)

Skin corrosion/irritation : Causes skin irritation.
Based on test data. Species: Rabbit - Exposure 24 hrs 500 mg

Serious eye damage/irritation : Causes serious eye irritation.

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Respiratory or skin sensitisation : Not classified.
Germ cell mutagenicity : Not classified.
Carcinogenicity : Suspected of causing cancer.

Reproductive toxicity : Not classified.

Kerosine(petroleum),hydrodesulfurized (64742-81-0)	
NOAEL (animal/male, F0/P)	≥ 3000 mg/kg bodyweight Animal: rat, Animal sex: male

STOT-single exposure : Not classified.
STOT-repeated exposure : Not classified.

Kerosine(petroleum),hydrodesulfurized (64742-81-0)	
NOAEL (oral, rat, 90 days)	750 mg/kg bodyweight Animal: rat, Animal sex: female
NOAEL (dermal, rat/rabbit, 90 days)	≥ 495 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)
NOAEC (inhalation, rat, vapour, 90 days)	≥ 0.024 mg/l air Animal: rat, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study)

Alkanes, C10-20-branched and linear (928771-01-1)	
NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)

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

MARINE DIESEL	
Viscosity, kinematic	2 – 6 mm ² /s / 0.02 - 0.06 cm ² /s @40°C / 104°F

Kerosine(petroleum),hydrodesulfurized (64742-81-0)	
Viscosity, kinematic	No data available

Alkanes, C10-20-branched and linear (928771-01-1)	
Viscosity, kinematic	No data available

Symptoms/effects after inhalation : May cause irritation to the respiratory tract.
Symptoms/effects after skin contact : Causes skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.
Symptoms/effects after eye contact : Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
Symptoms/effects after ingestion : May be fatal if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea. May be fatal if swallowed and enters airways. May result in aspiration into the lungs, causing chemical pneumonia.
Chronic symptoms : Suspected of causing cancer.
Other information : Likely routes of exposure: ingestion, inhalation, skin and eye.

SECTION 12 Ecological information

12.1. Ecotoxicity

Ecology - general : May cause long-term adverse effects in the aquatic environment.
Hazardous to the aquatic environment, short-term (acute) : Not classified.
Hazardous to the aquatic environment, long-term (chronic) : Not classified.

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Kerosine(petroleum),hydrodesulfurized (64742-81-0)	
LC50 - Fish [1]	45 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: IUCLID)
EC50 - Crustacea [1]	4720 mg/l (Exposure time: 48 h - Species: Den-dronereides heteropoda)
LC50 - Fish [2]	1740 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: IUCLID)

Alkanes, C10-20-branched and linear (928771-01-1)	
LOEC (chronic)	3.2 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

12.2. Persistence and degradability

MARINE DIESEL	
Persistence and degradability	Not established.

Kerosine(petroleum),hydrodesulfurized (64742-81-0)	
Persistence and degradability	Rapidly degradable

Alkanes, C10-20-branched and linear (928771-01-1)	
Persistence and degradability	Rapidly degradable

12.3. Bioaccumulative potential

MARINE DIESEL	
Bioaccumulative potential	Not established.

Kerosine(petroleum),hydrodesulfurized (64742-81-0)	
BCF - Fish [1]	61 – 159

Alkanes, C10-20-branched and linear (928771-01-1)	
Partition coefficient n-octanol/water	> 6.5 (at 30 °C (at pH 7)

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Ozone	: Not classified.
Fluorinated greenhouse gases	: No
Other information	: No other effects known.

SECTION 13 Disposal considerations

Product/Packaging disposal recommendations	: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
Additional information	: Handle empty containers with care because residual vapours are flammable.

SECTION 14 Transport information

In accordance with DOT / TDG

Product is regulated as combustible liquid (NA1993) only when shipped in bulk, and unregulated if shipped in smaller containers.

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14.1. UN Number

UN-No. (DOT) : NA1993
UN-No. (TDG) : Not regulated

14.2. UN Proper Shipping Name

Proper Shipping Name (DOT) : Combustible liquid, n.o.s. (Kerosine(petroleum),hydrodesulfurized)
Proper Shipping Name (TDG) : Not regulated

14.3. Transport hazard class(es)

DOT
Transport hazard class(es) (DOT) : Combustible liquid

TDG
Transport hazard class(es) (TDG) : Not regulated

14.4. Packing group

Packing group (DOT) : III
Packing group (TDG) : Not regulated

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Transport in bulk

Not applicable

14.7. Special precautions for user

Special transport precautions : Do not handle until all safety precautions have been read and understood.

DOT
UN-No. (DOT) : NA1993
DOT Special Provisions (49 CFR 172.102) : 148 - For domestic transportation, this entry directs to § 173.66 for: a. The standards for transporting a single bulk hazardous material for blasting by cargo tank motor vehicles (CTMV); and b. The standards for CTMVs capable of transporting multiple hazardous materials for blasting in bulk and non-bulk packagings (i.e, a multipurpose bulk truck (MBT)).
IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).
T1 - 1.5 178.274(d)(2) Normal..... 178.275(d)(2)
TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / (1 + a (tr - tf))$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.
DOT Packaging Exceptions (49 CFR 173.xxx) : 150
DOT Packaging Non Bulk (49 CFR 173.xxx) : 203
DOT Packaging Bulk (49 CFR 173.xxx) : 241
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 60 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 220 L
DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

TDG
Not regulated

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SECTION 15 Regulatory information

15.1. Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories.

15.2. International regulations

No additional information available

15.3. State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16 Other Information

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2024 and the Hazardous Products Regulations (HPR) WHMIS 2022

Revision date : 2025-04-16
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Other information : None.
Prepared by : Nexreg Compliance Inc.
www.Nexreg.com



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