

Spill Contingency Plan v.3

Checkpoint Landfarm and Highway Maintenance
Camp

JUNE | 2024



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1 Introduction

The Department of Environment and Climate Change (ECC), formerly the Department of Environment and Natural Resources (ENR), with the Government of the Northwest Territories (GNWT) has developed this version of the Spill Contingency Plan and shall be associated with the land use permit and water licence for the Checkpoint Landfarm Facility and Checkpoint former Highway Maintenance Camp (the Sites). Environmental site assessments, care & maintenance, remediation, and monitoring work are to be carried out at the former Checkpoint Highway Maintenance Camp (HMC) and the Checkpoint Landfarm Treatment Facility (landfarm). This plan is to demonstrate that ECC and its contractors have appropriate response capabilities to effectively address any potential spills as a result of the work to be completed under the land use permit and water licence.

1.1 Contact Information

Mischelle Remigio
 Contaminated Sites Project Officer
 Environmental Protection and Waste Management Division
 Department of Environment and Climate Change
 P.O Box 1320
 Yellowknife, NT X1A 2L9
 (867) 767-9236 ext. 53183

1.2 Effective date of the Spill Contingency Program

Upon issuance of the Land Use Permit and Water Licence for this project.

1.3 Last Revision to the Spill Contingency Plan

Table 1 – Revisions to Spill Contingency Plan

Date	Section	Revision
June 2024	All	Revisions completed to better reflect spill response onsite.

1.4 Distribution List

This plan has been distributed to:

Mackenzie Valley Land and Water Board
 7th Floor, 4922 48th Street
 PO Box 2130
 Yellowknife, NT. X1A 2P6

1.5 Purpose and Scope

The purpose of this plan is to outline response actions for potential spills associated with the proposed operations at the Sites. The plan will identify key personnel roles and responsibilities as well as response procedures to mitigate impacts to people, property and the environment in the event of a spill.

1.6 Site Background and Description

GNWT-ECC has developed this Spill Contingency Plan in support of assessment and remediation activities planned at the Checkpoint former Highway Maintenance Camp (HMC) and the Checkpoint Landfarm Facility (landfarm).

The HMC was used for various activities between 1970 to 2000. It was first established as a highway maintenance camp by the Government of Canada in the 1970s. The site was transferred to the GNWT in the 1980s during a block land transfer. It was then leased and operated by Yukon Construction Co. in the 1980s and remained as a highway maintenance camp until the mid-1990s. The site was leased and operated to Mackenzie Wood Products in 1996 and was used for logging and milling operations. Logging and milling operations ended in 2000 due to the lack of timber supply. Due to the operations at the site, it contained a dump, camp workings, maintenance area, residential areas, sawmill, and various storage areas.

The landfarm was developed for remediation for hydrocarbon contaminated soils from the HMC. All soils placed at the landfarm are now below guideline criteria and have been approved to be transported back to the HMC to be used as backfill material. Most of the remediated soils have been transported back to the HMC. Ongoing monitoring is being completed at the site. Activities include groundwater and surface water sampling at the SNP locations, and discharge of water from the retention pond and overflow cells into the designated discharge area. It is expected that additional impacted soil will be placed into the landfarm for remediation when the remediation program at the HMC takes place.

1.7 List of Hazardous Materials on Site

No fuel storage areas are located at either site. Fuel tank located on the back of the support truck/work truck containing 450 L of diesel fuel may be present onsite when completing field work. A diesel fuel safety data sheet is provided in Appendix A for reference.

1.8 Existing Preventative Measures

1.8.1 Spill Kit

A drum style spill kit will be with the 450 L diesel fuel tank at all times.

This kit includes:

- Overpack Drum
- Polyethylene Liners

- Sorbent pads
- Sorbent booms
- Shovels
- Disposal bags
- Nitrile Gloves
- Safety goggles

1.8.2 Safe Handling Procedures

The spill kit will be located with the 450L fuel tank at all times during this operation. Portable drip trays and adequately sized fuel transfer hoses/pumps will be used when refueling motorized equipment. This should avoid any leaks or drips to the ground during refueling operations.

2 Response Organization

2.1 Contact Numbers

The flow chart provided below in Figure 1 identifies the response procedures to follow when addressing a spill.

Immediate reportable spills are defined in Table 2. Any spill that meets or exceeds the threshold listed in Table 2 must be immediately reported to the Northwest Territories and Nunavut 24-Hour Spill Line (Spill Line) at 867-920-8130. Any spills that are below those thresholds must be tracked and documented by the Land Use Permit holder and provided to the Land Use Inspector at a pre-determined interval or upon their request.

List of Contact Numbers:

1. ECC Project Manager –Mischelle Remigio
 - a. 867-767-9236 ext: 53183
2. Contractor – Stantec (Michael Duguay)
 - a. 902-468-7777
3. NWT/NU 24 Hour Spill Report Line
 - a. 867-920-8130
4. Manager, Resource Management – Danielle Rogers
 - a. T: 867-695-2626 Ext. 205
5. RCMP
 - a. 911; or
 - b. 867-695-1111
6. Fire/Ambulance
 - a. 911; or
 - b. 867-695-2222

Table 2 – Reportable Spill Thresholds

Substance	Reportable Quantity	TDG Class
Explosives	Any amount	1.0
Compressed gas (toxic/corrosive)		2.3/2.4
Infectious substances		6.2
Sewage and Wastewater (unless otherwise authorized)		6.2
Radioactive materials		7.0
Unknown substance		None
Compressed gas (Flammable)	Any amount of gas from containers with a capacity greater than 100L	2.1
Compressed gas (Non-corrosive, non-flammable)		2.2
Flammable liquid	≥100 L	3.1/3.2/3.3
Flammable solid	≥ 25 kg	4.1
Substances liable to spontaneous combustion		4.2
Water reactant substances		4.3
Oxidizing substances	≥ 50 L or 50 kg	5.1
Organic peroxides	≥1 L or 1 kg	5.2
Environmentally hazardous substances intended for disposal		9.0
Toxic substances	≥ 5 L or 5 kg	6.1
Corrosive substances		8.0

Substance	Reportable Quantity	TDG Class
Miscellaneous products, substances or organisms		9.0
PCB mixtures of 5 or more ppm	≥ 0.5 L or 0.5 kg	9.0
Other contaminants--for example, crude oil, drilling fluid, produced water, waste or spent chemicals, used or waste oil, vehicle fluids, wastewater.	≥ 100 L or 100 kg	None
Sour natural gas (i.e., contains H ₂ S) Sweet natural gas	Uncontrolled release or sustained flow of 10 minutes or more	None
Flammable liquid Vehicle fluid	≥ 20 L When released on a frozen water body that is being used as a working surface	3.1/3.2/3.3 None
Reported releases or potential releases of any size that: are near or in an open water body; are near or in a designated sensitive environment or habitat; Pose an imminent threat to human health or safety; or Pose an imminent threat to a listed species at risk or its critical habitat	Any amount	None

3 Action Plan

This section will provide information on potential spill sizes, impacts and recovery should a spill happen on site while work is being conducted.

3.1 Potential Spill Sizes and Sources

Table 3 provides a list of potential discharge events that could occur while work is being undertaken on site. These potential events are based on a worst-case scenario event.

Table 3 - Potential Spill Sizes and Sources

Material (Sources)	Potential Discharge Event	Discharge Volume (Worst Case)	Direction of Potential discharge
Diesel Fuel (From heavy equipment or from refueling line/tank)	<ol style="list-style-type: none"> 1. Over filling during refueling events 2. Leaks from heavy equipment 3. Large Puncture/leaking fuel tank from refueling tank 	450L	Toward nearby watercourses or water bodies in the area of refueling or drilling.

3.2 Environmental Impacts

Environmental impacts of diesel fuel maybe harmful to wildlife and aquatic life. Diesel is not readily biodegradable and has bioaccumulation potential in the environment. Given the volumes proposed for this project the impact to the environment can be mitigated through efficient spill response and recovery of this volume of fuel. Discharge into any water courses or water bodies must be avoided.

3.3 Procedures for Initial Action

Below is a flowchart (Figure 1) depicting the response organization and response procedure to responding to a spill event.

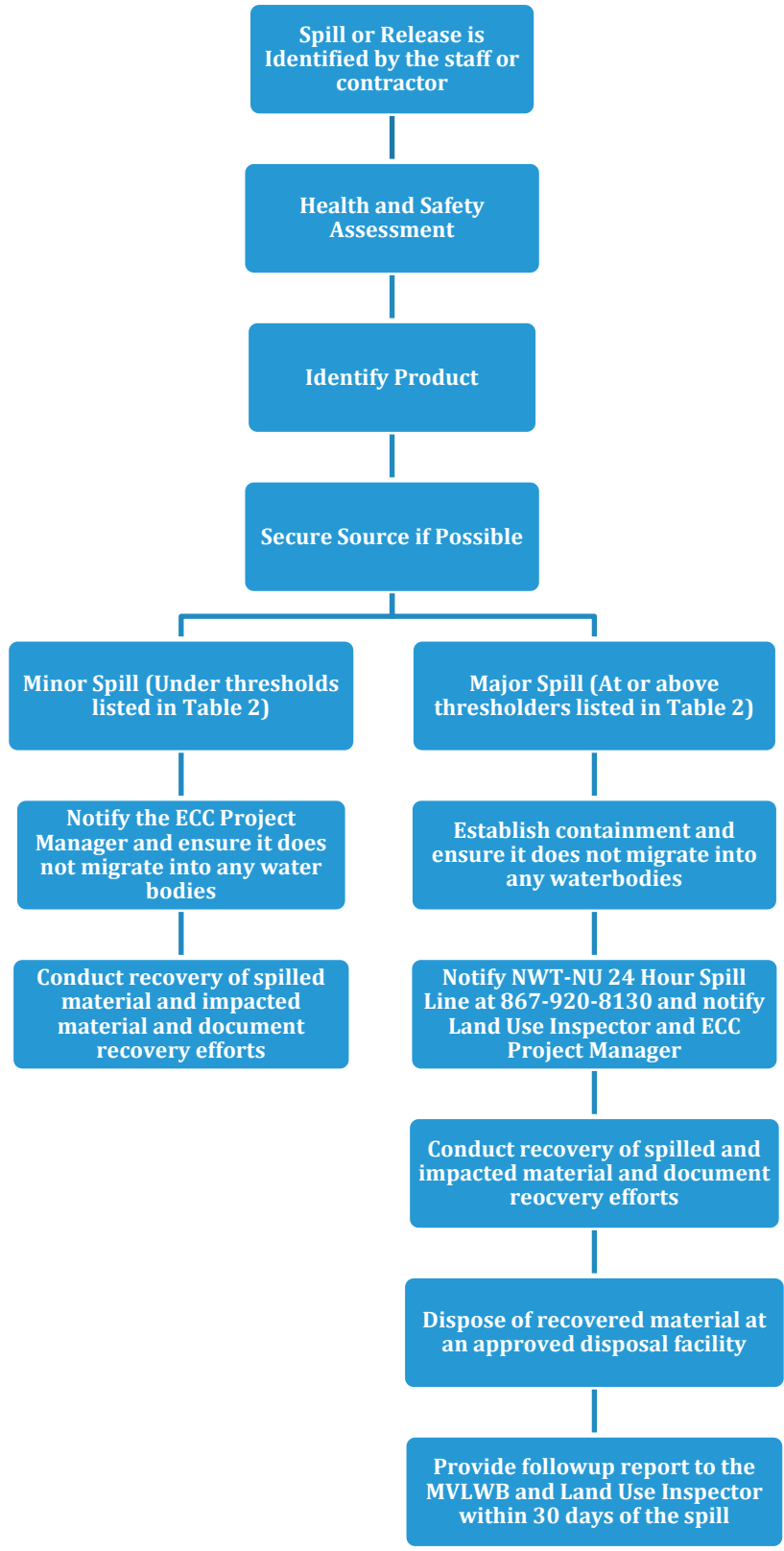


Figure 1. Response Procedures

The following actions shall be taken by the personnel who identifies the spill:

- Spill or release is identified by the field lead or contractor onsite.
- Field Lead to conduct a Health and Safety Assessment.
 - Be alert and ensure the safety of all personnel onsite by alerting those working in the area about the spill.
 - Move everyone to a safe distance away from the spill.
 - If safe to do so, remove sources of ignition.
 - If possible, control any danger to human life or the environment.
 - Identify product spilled and take appropriate health and safety measures as defined in the Transport Canada 2016 Emergency Response Guidebook.
 - Assess whether the spill can be readily stopped or brought under control.
- Secure the source of the spill if possible and safe to do so.
 - Terminate pumping operations; remove contents from compromised container to competent containment.
- Contain the spill using the contents of the spill kits that will be onsite and or use a shovel and polyethylene liners to construct berms and interception trenches.
- Regardless of the volume, report the spill immediately to the Field Lead/Site Supervisor and the ECC Project Manager who will report the spill the 24-Emergency Spill Report Line. For additional details on the spill reporting procedure, please refer to Section 3.4.
- For minor spills (under thresholds listed in Section 2, Table 2):
 - Notify the ECC Project Manager and ensure that it does not migrate into any water bodies.
 - Conduct recovery of spilled material and impacted material. Document the recovery efforts.
 - Dispose of recovered material at an approved disposal facility.
 - Provide follow-up reports to the MVLWB and Land Use Inspector within 30 days of the spill.
- For major spills (at or above the thresholds listed in Section 2, Table 2):
 - Establish containment of the spilled material and ensure that it does not migrate into waterbodies.
 - Notify NWT-NU 24 Hour Spill Line at 867-920-8130 and notify the Land Use Inspector and ECC Project Manager.
 - Conduct recovery of the spilled and impacted material. Document the recovery efforts.
 - Dispose of recovered material at an approved disposal facility.
 - Provide follow-up reports to the MVLWB and Land Use Inspector within 30 days of the spill.
- For additional details for procedures to containing and controlling spills on land, water, snow and ice, please refer to section 3.5.
- For additional details for recovery and management of spilled material and related wastes, please refer to section 3.6.
- For additional details on the procedure for restoring affected areas, please refer to section 3.7.

3.4 Spill Reporting Procedures

In the case of a spill that exceeds the threshold set out in Table 2, the Spill Line must be contacted, and the spill reported. This process must take place within 24 hours of the spill first being noticed. The Spill Line will notify all relevant Territorial and Federal Government Departments as per the Northwest Territories/Nunavut Spills Working Agreement 2014. The proponent must also contact the Inspector with the Department of Environment and Climate Change with any details. Their number can be found in Section 2.1 of this plan. A spill report form, as shown in Figure 2 will be filed with the Northwest Territories and Nunavut 24 Hour Spill Line.

The spill kit will contain a copy of this Spill Contingency plan as well, copies will be held with the ECC Project Manager and the Contractor supervisor on site.

The report will be filed with the Spill Line by;

- Phone: 867-920-8130;
- Fax: 867-873-6924; or
- Email: spills@gov.nt.ca

NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS



NT-NU 24-HOUR SPILL REPORT LINE
Tel: (867) 920-8130 • Fax: (867) 873-6924 • Email: spills@gov.nt.ca

REPORT LINE USE ONLY

A	Report Date: MM DD YY	Report Time:	<input type="checkbox"/> Original Spill Report OR <input type="checkbox"/> Update # _____ to the Original Spill Report	Report Number:	
	Occurrence Date: MM DD YY	Occurrence Time:			
C	Land Use Permit Number (if applicable):	Water Licence Number (if applicable):			
D	Geographic Place Name or Distance and Direction from the Named Location:		Region: <input type="checkbox"/> NT <input type="checkbox"/> Nunavut <input type="checkbox"/> Adjacent Jurisdiction or Ocean		
E	Latitude: _____ Degrees _____ Minutes _____ Seconds		Longitude: _____ Degrees _____ Minutes _____ Seconds		
F	Responsible Party or Vessel Name:		Responsible Party Address or Office Location:		
G	Any Contractor Involved:		Contractor Address or Office Location:		
H	Product Spilled: <input type="checkbox"/> Potential Spill	Quantity in Litres, Kilograms or Cubic Metres:	U.N. Number:		
I	Spill Source:	Spill Cause:	Area of Contamination in Square Metres:		
J	Factors Affecting Spill or Recovery:	Describe Any Assistance Required:	Hazards to Persons, Property or Environment:		
K	Additional Information, Comments, Actions Proposed or Taken to Contain, Recover or Dispose of Spilled Product and Contaminated Materials:				
L	Reported to Spill Line by:	Position:	Employer:	Location Calling From:	Telephone:
M	Any Alternate Contact:	Position:	Employer:	Alternate Contact Location:	Alternate Telephone:

REPORT LINE USE ONLY

N	Received at Spill Line by:	Position:	Employer:	Location Called:	Report Line Number:
Lead Agency: <input type="checkbox"/> EC <input type="checkbox"/> CCG/TCMSS <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> AANDC <input type="checkbox"/> NEB <input type="checkbox"/> Other: _____			Significance: <input type="checkbox"/> Minor <input type="checkbox"/> Major <input type="checkbox"/> Unknown		File Status: <input type="checkbox"/> Open <input type="checkbox"/> Closed
Agency:		Contact Name:	Contact Time:	Remarks:	
Lead Agency:					
First Support Agency:					
Second Support Agency:					
Third Support Agency:					

Figure 2. NT-NU Spill Report

3.5 Procedures for Containing and Controlling Spills on Land, Water, Snow and Ice

Table 4 – Procedures for Containing and Controlling Spills on Land, Water, Snow and Ice

Spills on Land	Spills on Water
<ul style="list-style-type: none"> • Determine what will be affected • Assess speed and direction of spill • Determine location for containment structure • Construct Containment <ul style="list-style-type: none"> ○ Dykes (Soil) ○ Trenches 	<ul style="list-style-type: none"> • Determine what will be affected • Assess speed and direction of spill • Determine location for containment structure • Construct Containment <ul style="list-style-type: none"> ○ Absorbent Booms ○ Weirs ○ Underflow dams ○ Barriers (Containment Booms)
Spills on Snow	Spills on Ice
<ul style="list-style-type: none"> • Determine what will be affected • Assess speed and direction of spill • Determine location for containment structure • Construct Containment <ul style="list-style-type: none"> ○ Dykes (Snow) ○ Trenches 	<ul style="list-style-type: none"> • Determine what will be affected • Assess speed and direction of spill • Determine location for containment structure • Construct Containment <ul style="list-style-type: none"> ○ Dykes (Snow)

Should the volume of the spilled material be expected to exceed the containment structure that is in place, additional containment will be constructed downstream of the initial containment measures.

3.6 Procedures for Recovery and Management of Spilled Material and Related Wastes

Once containment measures are in place, the permit holder will need to address the recovery and management of the spilled material as well as any impacted material that may have resulted from the waste. This is broken down into 2 categories;

- Liquid material: Liquid material will be collected using sorbent pads and booms, skimmers and pumps. All collected material will be placed in competent containment and sent to an approved disposal facility.
- Solid Material (Soil, Snow, Ice): Solid material will be excavated by machinery or by hand. All collected material will be placed in competent containment and sent to an approved disposal facility.

3.7 Procedures for Restoring Affected Areas

Once the spilled material and associated waste has been collected and appropriately disposed of, the proponent will take confirmatory samples of the affected area and ensure they meet the applicable

territorial guidelines for protection of human health and the environment. The Inspector will be engaged throughout this process to ensure that remediation measures are approved and meet all regulatory requirements.

Should backfilling be required, clean material will be placed in the remediated area and restored to surrounding topography. If any work is to take place near any water course or water bodies, sediment and erosion control measures will be implemented to the satisfaction of the Land Use Inspector.

4 Resource Inventory

4.1 On-Site Resources

As described in section 1.8 of this plan.

4.2 Off-Site Resources

It would be expected that spill containment and recovery materials could be mobilized within a few hours of the spill being identified. The contractor hired by GNWT will be responsible for ensuring that utilized materials to address spills are disposed of at an authorized offsite facility.

5 Training Program

The GNWT will update this plan as required. The GNWT will ensure that the selected contractor has the appropriate training prior to commencing work at the site.

Appendix A

Safety Data Sheet for Diesel Fuel

SAFETY DATA SHEET



DIESEL FUEL

SDS Number: 000003000395

Version: 6.4

Revision Date: 2023/01/03

Print Date: 2023/01/04

SECTION 1. IDENTIFICATION

Product name : DIESEL FUEL

Product code : 10784

Other means of identification : Seasonal Diesel, #2 Diesel, #1 Diesel, #2 Heating Oil, #1 Heating Oil, OSX, D50, Arctic Diesel, Farm Diesel, Marine Diesel, Low Sulph

Manufacturer or supplier's details

Company name of supplier : Petro-Canada
Address : P.O. Box 2844, 150 - 6th Avenue South-West
Calgary, Alberta T2P 3E3
Canada, Telephone: 1-866-786-2671, +1 403-296-3000

Emergency telephone : CHEMTREC: 1-800-424-9300 (toll free) or +1 703-527-3887;
Suncor Energy: +1 403-296-3000

Recommended use of the chemical and restrictions on use

Recommended use : 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.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the Hazardous Products Regulations

Flammable liquids : Category 3

Acute toxicity (Inhalation) : Category 4

Skin irritation : Category 2

Carcinogenicity : Category 2

Specific target organ toxicity : Category 3 (Central nervous system)
- single exposure

Specific target organ toxicity : Category 2 (Liver, thymus, Bone)
- repeated exposure

Aspiration hazard : Category 1

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GHS label elements

Hazard pictograms



Signal Word

: Danger

Hazard Statements

: H226 Flammable liquid and vapor.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H332 Harmful if inhaled.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.
H373 May cause damage to organs (Liver, thymus, Bone) through prolonged or repeated exposure.

Precautionary Statements

: **Prevention:**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges.
P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P331 Do NOT induce vomiting.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P362 + P364 Take off contaminated clothing and wash it before

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reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
Kerosine (petroleum), hydrodesulfurized; Kerosine ?unspecified	Kerosine (petroleum), hydrodesulfurized; Kerosine ?unspecified	64742-81-0	48 - 100
Kerosine (petroleum); Straight run kerosine	Kerosine (petroleum); Straight run kerosine	8008-20-6	
Fuels, diesel; Gasoil ?unspecified	Fuels, diesel; Gasoil ?unspecified	68334-30-5	
Alkanes, C10-20 Branched and Linear	Alkanes, C10-20- branched and linear	928771-01-1	0 - 50
Fatty acids, C16-18 and C18-unsatd., Me esters	Fatty acids, C16-18 and C18-unsatd., Me esters	67762-38-3	0 - 20

All above concentrations are in percent by weight.

SECTION 4. FIRST AID MEASURES

If inhaled : Move to fresh air.
Artificial respiration and/or oxygen may be necessary.

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- Seek medical advice.
- In case of skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Wash skin thoroughly with soap and water or use recognized skin cleanser.
Wash clothing before reuse.
Seek medical advice.
- In case of eye contact : Remove contact lenses.
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Obtain medical attention.
- If swallowed : Rinse mouth with water.
DO NOT induce vomiting unless directed to do so by a physician or poison control center.
Never give anything by mouth to an unconscious person.
Seek medical advice.
- Most important symptoms and effects, both acute and delayed : Harmful if inhaled.
Respiratory, skin and eye irritation; nausea; cancer.
- Indication of immediate medical attention and special treatment needed, if necessary : Treat symptomatically.
For specialist advice physicians should contact the Poisons Information Service.

SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Dry chemical
Carbon dioxide (CO₂)
Water fog.
Foam
- Unsuitable extinguishing media : Do NOT use water jet.
- Specific hazards during fire fighting : Cool closed containers exposed to fire with water spray.
- Hazardous combustion products : Carbon oxides (CO, CO₂), nitrogen oxides (NO_x), sulphur oxides (SO_x), smoke and irritating vapours as products of incomplete combustion.
- Further information : Prevent fire extinguishing water from contaminating surface water or the ground water system.
- Special protective equipment : Wear self-contained breathing apparatus for firefighting if nec-

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for fire-fighters

essary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : For personal protection see section 8.
Ensure adequate ventilation.
Evacuate personnel to safe areas.
Material can create slippery conditions.
Mark the contaminated area with signs and prevent access to unauthorized personnel.
Only qualified personnel equipped with suitable protective equipment may intervene.
- Environmental precautions : If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Prevent further leakage or spillage if safe to do so.
Remove all sources of ignition.
Soak up with inert absorbent material.
Non-sparking tools should be used.
Ensure adequate ventilation.
Contact the proper local authorities.

SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Use only with adequate ventilation.
In case of insufficient ventilation, wear suitable respiratory equipment.
Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity.
Avoid contact with skin, eyes and clothing.
Do not ingest.
Keep away from heat and sources of ignition.
Keep container closed when not in use.
- Conditions for safe storage : Store in original container.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Keep in a dry, cool and well-ventilated place.
Keep in properly labeled containers.
To maintain product quality, do not store in heat or direct sunlight.
Ensure the storage containers are grounded/bonded.

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.
Contains no substances with occupational exposure limit values.
Contains no substances with occupational exposure limit values.
Contains no substances with occupational exposure limit values.
Contains no substances with occupational exposure limit values.
Contains no substances with occupational exposure limit values.

Engineering measures : Adequate ventilation to ensure that Occupational Exposure Limits are not exceeded.
Use only in well-ventilated areas.
Ensure that eyewash station and safety shower are proximal to the work-station location.

Personal protective equipment

Respiratory protection : Concentration in air determines protection needed.
Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.
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.

Filter type : organic vapour cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air-purifying respirators is limited. Use a positive-pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstances where air-purifying respirators may not provide adequate protection.

Hand protection
Material : neoprene, nitrile, polyvinyl alcohol (PVA), Viton(R). Consult your PPE provider for breakthrough times and the specific glove that is best for you based on your use patterns. It should be realized that eventually any material regardless of their imperviousness, will get permeated by chemicals. Therefore, protective gloves should be regularly checked for wear and tear. At the first signs of hardening and cracks, they should be changed.

Remarks : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eye protection : Wear face-shield and protective suit for abnormal processing

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SDS Number: 000003000395

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problems.

- Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.
- Protective measures : Wash contaminated clothing before re-use.
- Hygiene measures : Remove and wash contaminated clothing and gloves, including the inside, before re-use.
Wash face, hands and any exposed skin thoroughly after handling.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : Bright oily liquid.
- Color : Clear to yellow (This product may be dyed red for taxation purposes)
- Odor : Mild petroleum oil like.
- Odor Threshold : No data available
- pH : No data available
- Melting point/freezing point : No data available
- Initial boiling point and boiling range : 150 - 371 °C
- Initial boiling point and boiling range : No data available
- Flash point : > 40 °C
Method: closed cup
- Evaporation rate : No data available
- Flammability (solid, gas) : No data available
- Self-ignition : 204 °C
- Upper explosion limit / Upper flammability limit : 6 %(V)

SAFETY DATA SHEET



DIESEL FUEL

SDS Number: 000003000395

Version: 6.4

Revision Date: 2023/01/03

Print Date: 2023/01/04

Lower explosion limit / Lower flammability limit	:	0,7 %(V)
Vapor pressure	:	7,5 mmHg (20 °C)
Relative vapor density	:	4,5
Relative density	:	0,8 - 0,88
Density	:	No data available
Solubility(ies) Water solubility	:	insoluble
Partition coefficient: n-octanol/water	:	No data available
Autoignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity Viscosity, kinematic	:	1,3 - 4,1 cSt (40 °C)

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Stable at normal ambient temperature and pressure.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	Hazardous polymerization does not occur.
Conditions to avoid	:	Extremes of temperature and direct sunlight.
Incompatible materials	:	Reactive with oxidising agents and acids.
Hazardous decomposition products	:	May release COx, NOx, SOx, smoke and irritating vapours when heated to decomposition.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Eye contact
Ingestion

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Inhalation
Skin contact

Acute toxicity

Product:

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

Acute inhalation toxicity : Acute toxicity estimate: 1,5 mg/L
Exposure time: 4 h
Test atmosphere: dust/mist
Method: Calculation method
Remarks: Harmful if inhaled.

Acute dermal toxicity :

Components:

Kerosine (petroleum), hydrodesulfurized; Kerosine ?unspecified:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg

Kerosine (petroleum); Straight run kerosine:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg

Fuels, diesel; Gasoil ?unspecified:

Acute oral toxicity : LD50 (Rat): 7.500 mg/kg

Acute inhalation toxicity : LC50 (Rat): 4,1 mg/l
Exposure time: 4 h
Test atmosphere: vapor

Acute dermal toxicity : LD50 (Mouse): 24.500 mg/kg

Skin corrosion/irritation

Product:

Result :

Remarks : Causes skin irritation.

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Serious eye damage/eye irritation

Product:

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

Respiratory or skin sensitization

Product:

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

Germ cell mutagenicity

Product:

Carcinogenicity

Product:

Reproductive toxicity

Product:

STOT-single exposure

Product:

Target Organs : Central nervous system
Assessment :
Remarks : May cause drowsiness or dizziness.

STOT-repeated exposure

Product:

Target Organs : Liver, thymus, Bone
Remarks : May cause damage to organs through prolonged or repeated exposure.

Aspiration toxicity

Product:

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish :
Remarks: No data available

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Toxicity to daphnia and other :
aquatic invertebrates : Remarks: No data available

Toxicity to algae/aquatic :
plants : Remarks: No data available

Toxicity to microorganisms : Remarks: No data available

Persistence and degradability

Product:

Biodegradability : Remarks: No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.
Offer surplus and non-recyclable solutions to a licensed disposal company.
Waste must be classified and labeled prior to recycling or disposal.
Send to a licensed waste management company.
Dispose of as hazardous waste in compliance with local and national regulations.
Dispose of product residue in accordance with the instructions of the person responsible for waste disposal.

Contaminated packaging : Contact local or business unit authorities for guidance on disposal of product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

UN/ID No. : UN 1202
Proper shipping name : DIESEL FUEL
Class : 3

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Packing group : III
Labels : Flammable Liquids
Packing instruction (cargo aircraft) : 366

IMDG-Code

UN number : UN 1202
Proper shipping name : DIESEL FUEL

Class : 3
Packing group : III
Labels : 3
EmS Code : F-E, S-E
Marine pollutant : yes

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

Not applicable for product as supplied.

Domestic regulation

TDG

UN number : UN 1202
Proper shipping name : DIESEL FUEL

Class : 3
Packing group : III
Labels : 3
ERG Code : 128
Marine pollutant : yes

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

The ingredients of this product are reported in the following inventories:

DSL : On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with

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x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECl - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECl - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

Revision Date : 2023/01/03

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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