

SAFETY DATA SHEET

Section 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME Diesel

OTHER NAMES Automotive diesel oil, Diesel fuel, Diesel oil (petroleum), Diesel oils, Diesel test fuel

PRODUCT USE A distillate fuel which is suitable for use in high and medium speed internal combustion engines of the compression ignition type. As a fuel for trucks, ships and other automotive equipment. Also used for mosquito control (as film on breeding waters); process oil; mould oil. Mining Diesel has a higher flash point requirement, safe use in underground mines. Fragrance.

SUPPLIER

Company: IRPC Public Company Limited
Address: 299 Moo.5 Sukhumvit Road, TumbonChern-nern
AmphurMuang, Rayong 21000
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Section 2 - HAZARDS IDENTIFICATION

Classification according to Regulation (EC) No. 1272/2008 (CLP) and GHS Classification

Carcinogen Category 2

Flammable Liquid Category 4

Skin Corrosion/Irritation Category 2

Eye Irritation Category 2B

PICTOGRAMS



SIGNAL WORD DANGER

HAZARD STATEMENTS

H227 Combustible Liquid

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H320 Causes eye irritation

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H351 Suspected of causing cancer.

PRECAUTIONARY STATEMENTS

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264 Wash hands thoroughly after handling.
- P271 Use only outdoors or in a well- ventilated area.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P281 Use personal protective equipment as required.
- P301+P310IF SWALLOWED: Call a POISON CENTER or doctor/physician.
- P304+P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P312 Call a POISON CENTER or doctor/physician if you feel unwell.
- P337+P313If eye irritation persists: Get medical advice/attention.
- P403+P233 Store in a well- ventilated place. Keep container tightly closed.
- P403+P235 Store in a well- ventilated place. Keep cool.
- P501: Dispose of contents and container in accordance with local regulations.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	CAS Number	EC Number	Composition
Fuels, diesel	68331-30-5	269-822-7	> 99 %

Section 4 - FIRST AID MEASURES

- Skin Exposure** Immediately remove all contaminated clothing, including footwear.
Flush skin and hair with running water (and soap if available).
Seek medical attention in event of irritation.
- Eyes Exposure** Wash out immediately with fresh running water.
Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.
Seek medical attention without delay; if pain persists or recurs seek medical attention.

Inhalation	If fumes or combustion products are inhaled remove from contaminated area. If the patient is not breathing spontaneously, administer rescue breathing.
Ingestion	DO NOT induce vomiting. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus.

Section 5 - FIRE FIGHTING MEASURES

Suitable extinguishing agents	Foam, Dry chemical, CO ₂ , water spray or fog – Large fires only.
Fire fighting	Alert Fire Brigade and tell them location and nature of hazard. Prevent, by any means available, spillage from entering drains or water course. Use water delivered as a fine spray to control fire and cool adjacent area. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location.
Hazards during fire-fighting	Carbon monoxide (CO), carbon dioxide (CO ₂), other pyrolysis products typical of burning organic material.
Protective equipment	Breathing apparatus. Chemical splash suit.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions	Avoid breathing vapours and contact with skin and eyes.
Cleanup	Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Prevent, by any means available, spillage from entering drains or water course. Absorb remaining product with sand, earth or vermiculite and wipe up. Collect solid residues and seal in labeled drums for disposal. Wash area and prevent runoff into drains.

Section 7 - HANDLING AND STORAGE

Handling	DO NOT cut, drill, grind, weld or perform similar operations on or near containers. Electrostatic discharge may be generated during pumping - this may result in fire. DO NOT use compressed air for filling discharging or handling operations. DO NOT enter confined spaces until atmosphere has been checked. Avoid smoking, naked lights or ignition sources. Avoid generation of static electricity. Avoid all personal contact, including inhalation.
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Storage conditions Store in original containers in approved flame-proof area.
 Store away from incompatible materials in a cool, dry, well-ventilated area.
 Store in a cool, dry, well-ventilated area.
 Protect containers against physical damage and check regularly for leaks.

Section 8 - EXPOSURE CONTROLS/ PERSONAL PROTECTION

Exposure limits

Component Name	Reference	STEL		TWA	
		ppm	mg/m ³	ppm	mg/m ³
Fuels, Diesel	Canada British Columbia-OEL	-	-	-	100
	Italy Occupational Exposure Limits	-	-	-	100
	ACGIH	-	-	-	100

Exposure controls Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment.

Personal protective equipments

Respiratory protection Type A* Filter of sufficient capacity.
 Eye protection Safety glasses with side shields. Chemical goggles.
 Protective clothing PVC protective suit may be required if exposure severe.
 Chemical splash suit
 Hand protection Wear chemical protective gloves, eg. PVC, Wear safety footwear or safety gumboots, eg. Rubber.

*A(All classes) = Organic vapours

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

State Liquid
Melting Range Not Applicable
Viscosity 2.7 (@ 40°C)
Boiling Range 140-450°C
Solubility in water Immiscible
Flash Point 52 °C
pH (1% solution) Not applicable
Decomposition Temp (°C) Not Applicable
Autoignition Temp 230 °C

Vapour Pressure < 0.1kPa@20 °C
Upper Explosive Limit (%) 7.5
Lower Explosive Limit (%) 0.6
Specific Gravity (water=1) 0.80-0.88 @15 °C
Relative Vapour Density (air=1) Approx.4.5
Volatile Component (%vol) Approx. 99

Section 10 - CHEMICAL STABILITY

Chemical Stability Stable under normal temperatures conditions and recommended use.
Dangerous reaction Reacts violently with strong oxidizers, concentrated nitric acid, fluorine.
Condition to Avoid Open flames, ignition sources, excess heat, confined spaces.
Material to Avoid Halogens, Strong acids, bases and oxidizing agents.
Dangerous decomposition Carbon monoxide (CO), carbon dioxide (CO₂), other pyrolysis products typical of burning organic material.

Section 11 - TOXICOLOGICAL INFORMATION

Acute Toxicity

Chemical name	Route	Species	Acute Toxic Value
Fuels, Diesel	Oral	Rat	LD ₅₀ 7400 mg/kg
	Inhalation	Rat	LC ₅₀ 4.6mg/l/4h
	Dermal	Rabbit	LD ₅₀ >2000 mg/kg

Irritating/corrosive effects

Eye Irritation Can cause serious eye irritation and excessive tear secretion.
Skin Irritation Repeated exposure may cause skin cracking, flaking or drying following normal handling and use.
Respiratory Irritation Inhalation of high concentrations of gas/vapour causes lung irritation with coughing and nausea, central nervous depression with headache and dizziness, slowing of reflexes, fatigue and inco-ordination.
Ingestion Irritation Swallowing of the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis; serious consequences may result.

Other information

Carcinogenic effect:

International Agency for Research on Cancer (IARC): Group 2A (Probably Carcinogenic to humans)
 - Agents Reviewed by the IARC Monographs

Section 12 - ECOLOGICAL INFORMATION

Aquatic toxicity LC₅₀ 54 mg/l/96 h: *Jordanella floridae* (Fresh fish)

Persistence and degradability Expected to be inherently biodegradable.

Bioaccumulative potential Product is not likely to accumulate in biological organisms.

Mobility in soil The product may infiltrate the ground.

Other adverse effects Films formed on water may affect oxygen transfer and damage organisms.





Section 13 - DISPOSAL CONSIDERATIONS

Dispose in accordance with all applicable regulations. Dispose of this material and its container to hazardous or special waste collection point. Incinerate the material under controlled conditions in an approved incinerator. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container.

DO NOT allow wash water from cleaning or process equipment to enter drains. It may be necessary to collect all wash water for treatment before disposal.

In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.

Section 14 - TRANSPORTATION INFORMATION

Regulatory information	UN number	Class	Packing group	Label	Proper Shipping Name
DOT	1202	3	III		DIESEL FUEL
ADR /RID	1202	3	III		DIESEL FUEL
IMDG CODE	1202	3	III		DIESEL FUEL
ICAO/IATA	1202	3	III		DIESEL FUEL

Section 15 - REGULATORY INFORMATION

REGULATIONS

US. Toxic Substances Control Act

All components of this product are on the TSCA Inventory.

OSHA:

This product is a "Hazardous Chemical" as defined by OSHA.

NFPA - USA

Health - 1, Flammability - 2, Reactivity - 0

HMIS - USA

Health - 1, Flammability - 2, Reactivity - 0

European Inventory of Existing Commercial Chemical Substances (EINECS)

The components of this product are on the EINECS inventory.

EU Directives 67/548/EEC

Classification Xn

Symbols



R-Phrases

R40: Limited evidence of a carcinogenic effect.

S-Phrases

S2: Keep out of the reach of children.

S36/37: Wear suitable protective clothing and gloves.

Section 16 - OTHER INFORMATION

The information in this document is based on our best present. Nevertheless, it does not constitute a guarantee for any specific product features and does not establish any a legally binding contract.

DOT	Department of Transportation
ADR	European agreement concerning the international carriage of dangerous goods by road.
RID	Regulations concerning the international carriage of dangerous goods by rail.
IMDG – CODE	International maritime dangerous goods code
ICAO	International Civil Aviation Organization
IATA	International air transport association
GHS	Globally Harmonized System of Classification and Labeling of Chemicals
CLP	Classification and Labeling of Packaging
IARC	International Agency for Research on Cancer
NFPA	National Fire Protection Association
OSHA	Occupational Safety and Health Administration
ACGIH	American Conference of Industrial Hygienists

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