

SAFETY DATA SHEET

In According with 3rd revision GHS

Section 1 – Identification of the Substance and Company

Product Name	: High speed diesel
Chemical Name	: High speed diesel
Identified Uses	: Diesel engine fuel
Manufacturer	: IRPC PLUBLIC COMPANY LIMITED 299 Moo 5, Sukhumvit Road, Churngnern, Muang, Rayong 21000 , THAILAND
Emergency Call	: +66(0) 38802560
Website	: www.irpc.co.th

Section 2 – Hazards Identification

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

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 handles 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/vapors/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+P310 IF 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.

P337+P313 If eye irritation persists: Get medical advice/attention.

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

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	68334-30-5	269-822-7	93-100 %
Fatty acid methyl ester	67762-38-3	267-015-4	0-7 %

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. Seek medical advice.

Section 5 – Fire-fighting Measures

- Suitable extinguishing agents** : Foam, water spray or fog, Dry chemical, CO₂, sand or earth may be used for small fires only.
- Firefighting** : Alert Fire Brigade and tell them location and nature of hazard. May be violently or explosively reactive. Prevent, by any means available, spillage from entering drains or water course. 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 (CO₂), other pyrolysis products typical of burning organic material.

Protective equipment : Breathing apparatus. Chemical splash suit. Protective gloves.

Section 6 – Accidental Release Measures

Personal Precautions : Avoid breathing vapors and contact with skin and eyes.

Cleanup : Clear area of personnel and move upwind. Prevent, by any means available, spillage from entering drains or water course. Absorb remaining product with sand, earth or vermiculite and wipe up. Collect recoverable product into labeled containers for recycling. Collect residues in a flammable waste container.

Section 7 – Handling and Storage

Handling : DO NOT cut, drill, grind, weld or perform similar operations on or near containers. Ensure electrical continuity by bonding and grounding (Earthing) all equipment. 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. Prevent concentration in hollows and sumps.

Storage conditions : Store in original containers in approved flammable liquid storage area. Store away from incompatible materials in a cool, dry, well-ventilated area. Protect containers against physical damage and check regularly for leaks. No smoking, naked lights, heat or ignition sources.

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 equipment

Respiratory protection : Type A (Organic vapors) 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 e.g. PVC, Wear safety footwear or safety gumboots e.g. Rubber.

Section 9 – Physical and Chemical Properties

Physical Appearance : Clear Liquid
Odor : Petroleum solvent
Melting Range : Not Applicable
Viscosity : Not Available
Boiling Range : 145-370 °C
Solubility in water : Immiscible
Flash Point : ≥ 52 °C
pH (1% solution) : Not applicable
Decomposition Temp (°C) : Not Applicable
Auto-ignition Temp : > 250 °C
Vapor Pressure : Not Available
Upper Explosive Limit (%) : 7.0
Lower Explosive Limit (%) : 0.6
Specific Gravity (water=1) : 0.81-0.87 @15 °C
Volatile Component (%vol) : Approx. 99

Section 10 – Stability and Reactivity

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, and 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 4.6 mg/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/vapor causes lung irritation with coughing and nausea, central nervous depression with headache and dizziness, slowing of reflexes, fatigue and in-coordination.
- 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) (Diesel)
- Persistence and degradability : Expected to be inherently biodegradable.
- Bio-accumulative potential : Product is not likely to accumulate in biological organisms.
- Mobility in soil : Partly 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 - Transport Information

Regulatory information	UN number	Classes	Packing group	Label	Additional information
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.

NFPA - USA

Health - 2, Flammability - 2, Reactivity - 0

HMIS - USA

Health - 2, 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: Harmful

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

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
NFPA	: National Fire Protection Association
HMIS	: Hazardous Materials Identification System
IARC	: International Agency for Research on Cancer
OSHA	: Occupational Safety and Health Administration
ACGIH	: American Conference of Industrial Hygienists

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