

SAFETY DATA SHEET

In According with 3rd revision GHS SDS

Section 1 – Identification

Product Name : Gasohol
Product Type : Gasoline
Product Use : As fuel in internal combustion engines of the spark ignited, reciprocating type.
Manufacturer : IRPC Public Co., Ltd.
299 Moo 5 Sukhumvit Road Amphur Muang Rayong Thailand
Emergency Call : +66(0) 38 802560
Website : www.irpc.co.th

Section 2– Hazards Identification

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

Flammable liquid Category 2

Carcinogen Category 1B

Germ Cell Mutagen Category 1B

Aspiration Hazard Category 1

Pictograms



Signal word Danger

Hazard Statements:

- H225 Highly flammable liquid and vapor.
- 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.
- H340 May cause genetic defects.
- H350 May cause cancer.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H402 Harmful to aquatic life

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.
- P240 Ground/bond container and receiving equipment.
- 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.
- 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+P313 If 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	Percent weight
Gasoline	8006-61-9	232-349-1	80-91
Ethanol	64-17-5	200-578-6	9-20

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. Get immediate medical attention. 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.
- 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, CO₂, water spray or fog – large fires only.

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.

Section 6 – Accidental Release Measures

Personal precautions : Avoid breathing vapor or gas. Protective equipment including respirator should be used.

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.

Storage conditions : Store in original containers in approved flame-proof area. Store away from incompatible materials 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	TLV		TWA	
		ppm	mg/m ³	ppm	mg/m ³
Ethanol	ACGIH	-	1880	-	-
Gasoline	Australia Exposure Standard	-	-	-	900
	Canada British Columbia-OEL	-	-	-	100

Personal protective equipment

Respiratory protection : Type A-P 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. Wear chemical protective gloves

Ventilation : Provide adequate ventilation when processing material at elevated temperatures.

Engineering Controls : Use process enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below recommended exposure limits.

Section 9–Physical and Chemical Properties

Physical Description	: Bright & Clear
Odor	: Petroleum solvent
pH	: Not applicable
Vapor Pressure	: 62 hPa @ 37.8 °C
Boiling Point	: 200 °C (Max)
Melting Point	: Not applicable
Flash Point	: -43 °C
Auto-ignition	: 275°C
Solubility (in water)	: Immiscible
Viscosity	: Not applicable
Relative density	: 3-4
Upper/Lower flammability or explosive limit	: 1.4/7.4
Partition coefficient (n-octanol/water)	: Not applicable

Section 10 – Stability and Reactivity

Stability	: Stable under normal temperatures conditions and recommended use.
Condition to Avoid	: Avoid heat, open flame and other sources of ignition.
Material to Avoid	: May react with strong oxidizing agents, such as chlorates, nitrates, peroxides, strong lewis and mineral acids, etc.
Dangerous decomposition	: Combustion products include: carbon monoxide (CO), carbon dioxide (CO ₂), other pyrolysis products typical of burning organic material.
Hazardous polymerization products:	Hazardous polymerization will not occur.

Section 11 – Toxicological Information

Acute Toxicity

Chemical name	Route	Species	Acute Toxic Value
Ethanol	Inhalation	Rat	LC ₅₀ 124.7 mg/l/4 hrs.
Gasoline	Inhalation	Rat	LC ₅₀ 300 gm/m ³

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 vapors may drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes and lack of co-ordination.
Ingestion	: Swallowing of the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis; serious consequences may result.

Other information

Carcinogenic effect : Gasoline

International Agency for Research on Cancer (IARC): Group 2A (Probably Carcinogenic to humans)

- Agents Reviewed by the IARC Monographs

Section 12 – Ecological Information

Eco-toxicity : GASOLINE; EC₅₀ 4700 mg/l/72 h: *Selenastrum capricornutum* (Alage) (OECD Guide-line201)

Persistence and degradability : Expected to be inherently biodegradable.

Bio-accumulate 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




Disposal Methods:

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	1203	3	II		Proper Shipping Name: GASOLINE
ADR / RID	1203	3	II		Proper Shipping Name: GASOLINE
IMDG CODE	1203	3	II		Proper Shipping Name: GASOLINE

ICAO / IATA	1203	3	II		Proper Shipping Name: GASOLINE
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Section 15 – Regulatory Information

European Inventory of Existing Commercial Chemical Substances (EINECS)

The components of this product are on the EINECS inventory or are exempt from inventory requirements.

Directive 67/548/EEC: This substance is not classified in the Annex I of Directive 67/548/EEC

US Toxic Substances Control Act

This product and/or its components are not on the TSCA Inventory.

HMIS - USA

Health – 1, Flammability – 4, Reactivity – 0

NFPA - USA

Health – 1, Flammability – 4, Reactivity – 0

Canada - WHMIS

This product has a WHMIS classification of B2, D2A and D2B.

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
ACGIH	: American Conference of Industrial Hygienists
WHMIS	: Workplace Hazardous Materials Information System
NFPA	: National Fire Protection Association
TLV	: Threshold limit value
IARC	: International Agency for Research on Cancer

The information above is believed to be accurate and represents the best of our knowledge, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.