



Kimya Resin Arak

Chemical Industrial Co.

## MATERIAL SAFETY DATA SHEET

Heavy Hydrocarbon

Tel: (+98) 86-3422-4515  
(Company)

Tel: (+98) 86-3823-2049  
(Factory)

### 1. Identification

**Product Name** Heavy Naphtha

**Synonyms** None

#### Details of the supplier of the safety data sheet

##### Company

Kimya Resin Arak Company

Tel: (+98) 86-3422-4515 (Company)

Tel: (+98) 86-3823-2049 (Factory)

### 2. Hazard (s) identification

#### Hazard Pictograms (GHS-US/CA)



**Signal Word (GHS-US/CA)** : Danger

**Hazard Statements (GHS-US/CA)** : H224 - Extremely flammable liquid and vapour  
H304 - May be fatal if swallowed and enters airways.  
H315 - Causes skin irritation.  
H332 - Harmful if inhaled.  
H350 - May cause cancer.  
H361d - Suspected of damaging the unborn child.  
H373 - May cause damage to organs through prolonged or repeated exposure.  
H410 - Very toxic to aquatic life with long lasting effects. (skin)  
H411 - Toxic to aquatic life with long lasting effects.

#### **Hazard summary**

**Physical hazards** Highly flammable.



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**Health hazards**

May cause cancer. May cause heritable genetic damage. Irritating to skin. Possible risk of impaired fertility. Possible risk of harm to the unborn child. Harmful: may cause lung damage if swallowed.

**Environmental hazards**

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Specific hazards**

Breathing of high vapour concentrations may cause dizziness, light-headedness, headache, nausea and loss of co-ordination. Continued inhalation may result in unconsciousness. Prolonged or repeated contact with skin may cause redness, itching, irritation, eczema/chapping and oil acne. Prolonged and repeated contact with the product may cause skin cancer. Components of the product may be absorbed into the body through the skin. Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia. Material will float and can be re-ignited on surface of water.

**Main symptoms**

Irritation of eyes and mucous membranes. Dermatitis. Ingestion may cause irritation and malaise.

**Precautionary Statements**

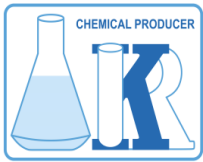
P201 - Obtain special instructions before use.  
 P260 - Do not breathe vapours, spray, mist, gas, and fume.  
 P273 - Avoid release to the environment.  
 P280 - Wear protective gloves, protective clothing, eye protection, face protection.  
 P301+P310+P331 - IF SWALLOWED: Immediately call a POISON CENTER, a doctor. Do NOT induce vomiting. P391 - Collect spillage.

**Other hazards**

Static accumulator - Static accumulating flammable materials can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite material and vapor may cause flash fire (or explosion).

3. Composition/Information on Ingredients

<b>Component</b>	<b>CAS-No</b>	<b>Percent</b>
Gas olis	64741-57-7	100
Naphtha (petroleum), heavy catalytic	6471-54-4	100



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#### **4. First-aid measures**



**General advice**

If exposed or concerned: get medical attention/advice. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use.

**Description of first aid procedures**

**Eye Contact:**

Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.

**Skin Contact**

Remove contaminated clothing and shoes. Wash off immediately with soap and plenty of water. Get medical attention if irritation develops or persists. Wash clothing separately before reuse. Destroy or thoroughly clean contaminated shoes. If high pressure injection under the skin occurs, always seek medical attention.

**Inhalation (Breathing):**

Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.

**Ingestion (Swallowing):**

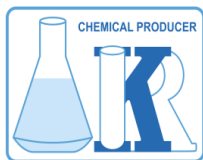
Rinse mouth thoroughly. Do not induce vomiting without advice from poison control centre. Do not give mouth-to-mouth resuscitation. Get medical attention immediately.

**Notes to Physician**

Symptoms: Dizziness, Discomfort, Headache, Nausea, Kidney disorders, Liver disorders.

**Most important symptoms  
effects, both acute and  
Delayed**

Skin irritation. Defatting of the skin. Rash. May cause eye irritation on direct and contact. Cyanosis (blue tissue condition, nails, lips, and/or skin). Narcosis. Unconsciousness. Decrease in motor functions. Behavioural changes. Aspiration may cause pulmonary oedema and pneumonitis. Jaundice. Liver enlargement. Oedema. Proteinuria



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### **5. Fire-fighting measures**

#### **General fire hazards**

The product is extremely flammable, and explosive vapour/air mixtures may be formed even at normal room temperatures. Containers may explode when heated.

#### **Suitable extinguishing media**

Water spray. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

#### **Unsuitable Extinguishing Media**

Do not use a solid water stream as it may scatter and spread fire.

#### **Specific hazards during fire fighting**

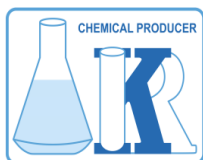
Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Withdraw immediately in case of rising sound from venting safety devices or any discolouration of tanks due to fire. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Move containers from fire area if you can do it without risk. In the event of fire, cool tanks with water spray. Cool containers exposed to flames with water until well after the fire is out. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn. Vapours may form explosive air mixtures even at room temperature. Prevent buildup of vapours or gasses to explosive concentrations. Some of these materials, if spilled, may evaporate leaving a flammable residue. Water runoff can cause environmental damage.

#### **Special protective equipment for fire-fighters**

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

#### **Hazardous Combustion Products**

Combustion may yield smoke, carbon monoxide, and other products of incomplete combustion. Hydrogen sulfide and oxides of nitrogen and sulfur may also be formed.



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<b>Diamond</b>	<b>Hazard</b>	<b>Value</b>	<b>Description</b>
	◆ Health	1	Can cause significant irritation
	◆ Flammability	3	Liquids and solid that can be ignited under almost all ambient temperature conditions, Materials produce hazardous atmospheres with air under almost all ambient temperatures or, though unaffected by ambient temperatures, are readily ignited under almost all conditions.
	◆ Instability	0	Materials that themselves are normally stable, even under fire conditions.
	◇ Special		

## **6. Accidental Release Measures**

### **Personal precautions, protective equipment and emergency procedures**

#### **For non-emergency personnel**

For non-emergency personnel

Evacuate personnel to a safe area. Stay upwind/keep distance from source. Provide adequate ventilation. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Avoid contact with skin and eyes. Do not breathe vapour/aerosol. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ensure equipment is adequately earthed. Use explosion-proof equipment. Use only non-sparking tools.

#### **For emergency responders**

For emergency responders

Ensure procedures and training for emergency decontamination and disposal are in place. Concerning personal protective equipment to use

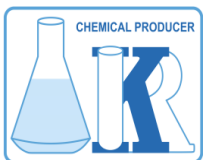
### **Environmental precautions**

Do not allow to enter into surface water or drains.

### **Methods and material for containment and cleaning up**

Methods for cleaning up

Stop leak if safe to do so. Dam up. Take up liquid spill into absorbent material, e.g.: sand, earth, vermiculite or powdered limestone. Collect in closed and suitable containers for disposal. Recover large spills by pumping (use an explosion proof or hand pump). Dispose of as special waste in compliance with local and national regulations. Site should have a spill plan to ensure that adequate safeguards are in place to minimize the impact of episodic releases.



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7. Handling and Storage



**Precautions for safe handling**

Before entering storage tanks and commencing any operation in a confined area check the atmosphere for oxygen content and flammability. Access to work area should be restricted to people handling the product only. Should be handled in closed systems, if possible. Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity.

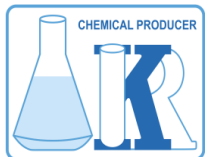
Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Avoid prolonged exposure. Use only with adequate ventilation. Wash thoroughly after handling. The product is extremely flammable, and explosive vapour/air mixtures may be formed even at normal room temperatures. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. When using, do not eat, drink or smoke.

**Conditions for safe storage,  
including any incompatibilities**

Flammable liquid storage. Do not handle or store near an open flame, heat or other sources of ignition. Keep container tightly closed in a cool, well-ventilated place.

**Specific end use(s)**

Distribution of a substance. Formulation & (re) packaging of substances and mixtures. Manufacture of substance. Use as an intermediate.



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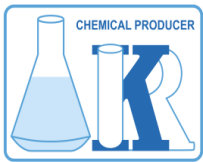
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8. Physical & Chemical Properties

<b>Appearance</b>	<b>Liquid</b>
<b>Colour</b>	<b>colourless to yellow</b>
<b>Odour</b>	<b>petroleum hydrocarbon odour</b>
<b>Initial boiling point and boiling range</b>	<b>129°C (264.2°F) / 177°C (350.6°F)</b>
<b>Flash point (ASTM D93)</b>	<b>Free (Closed Cup)</b>
<b>Final boiling point and boiling range</b>	<b>330°C (626°F) / 343°C (647.6°F)</b>
<b>PH</b>	<b>No applicable</b>
<b>Density at 15°C (ASTM D4052/D1298/D7042)</b>	<b>790 <math>\frac{kg}{m^3}</math> / 810 <math>\frac{kg}{m^3}</math></b>
<b>Flash Point Close Cup (ASTM D93)</b>	<b>Free</b>
<b>Sulphur Content Range (ASTM D5453/ D4294)</b>	<b>0.19 Wt% / 0.26 Wt%</b>
<b>Mercaptan Content Range (ASTM D3227 UOP.163)</b>	<b>400 ppm / 1000 ppm</b>

9. Stability & Reactivity

<b><u>Reactivity</u></b>	Extremely flammable liquid and vapour. The product is stable and non reactive under normal conditions of use, storage and transport.
<b><u>Chemical stability</u></b>	Stable under normal temperature conditions and recommended use.
<b><u>Possibility of hazardous reactions</u></b>	Hazardous reactions do not occur.
<b><u>Conditions to avoid</u></b>	Heat, flames and sparks. Ignition sources. Contact with incompatible materials. Do not pressurize, cut, weld, braze, solder, drill, grind or expose empty containers to heat, flame, sparks, static electricity, or other sources of ignition; they may explode and cause injury or death.
<b><u>Incompatible materials</u></b>	Strong acids. Strong oxidizers such as nitrates, chlorates, peroxides.
<b><u>Hazardous decomposition products</u></b>	Carbon oxides. As appropriate : Hydrogen sulfide (H <sub>2</sub> S). SO <sub>x</sub> . Sulphuric acid.



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### 10. Toxicological Information

#### **Acute Toxicity**

Inhalation: Harmful if inhaled.

#### **General Product Information**

May be fatal if swallowed and enters airways. Occupational exposure to the substance or mixture may cause adverse effects.

#### **B: Component Analysis - LD50/LC50**

**Gasoline, motor fuel (86290-81-5)**

Inhalation LC50 Rat >5610 mg/m<sup>3</sup>; Oral LD50 Rat 5000 mg/kg; Dermal LD50 Rabbit >2000 mg/kg

#### **Information on likely routes of exposure**

##### **Potential Health Effects: Skin Corrosion Property/Stimulativeness**

Causes skin irritation.

##### **Potential Health Effects: Eye Critical Damage/ Stimulativeness**

Direct contact with eyes may cause temporary irritation.

##### **Potential Health Effects: Ingestion**

Ingestion may cause irritation and malaise. Swallowing or vomiting of the liquid may result in aspiration into the lungs.

##### **Potential Health Effects: Inhalation**

Vapours may cause drowsiness and dizziness.

**WARNING:** the burning of any hydrocarbon as a fuel in an area without adequate ventilation may result in hazardous levels of combustion products, including carbon monoxide, and inadequate oxygen levels, which may cause unconsciousness, suffocation, and death.

##### **Respiratory Organs Sensitization/Skin Sensitization**

This product is not reported to have any skin sensitization effects.

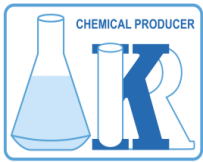
##### **Generative Cell Mutagenicity**

This product may cause genetic defects.

##### **Symptoms**

Irritation of eyes and mucous membranes. Skin irritation. Dermatitis. Ingestion may cause irritation and malaise.





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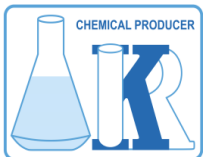
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### 11. Ecological Information

<b>Toxicity</b>	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.	
<b>Product</b>	<b>Species</b>	<b>Test results</b>
Naphtha (petroleum), heavy naphtha		
Aquatic		
Algae	EC50 Pseudokirchneriella subcapitata	3,1 mg/l , 72 Hours
Crustacea	EC50	4,5 mg/l , 48 Hours
Fish	LC50	10 mg/l , 96 Hours
	Pimephales promelas	8,2 mg/l , 96 Hours
<b>Persistence and degradability</b>	Expected to be inherently biodegradable.	
<b>Bioaccumulative potential</b>	Potential to bioaccumulate is low.	
<b>Partition coefficient</b>	Log Pow: 2 – 7	
<b>Mobility in soil</b>	Not available.	
<b>Mobility in general</b>	The product is insoluble in water. It will spread on the water surface while some of the components will eventually sediment in water systems. The volatile components of the product will spread in the atmosphere.	
<b>Other adverse effects</b>	Toxic to aquatic life with long lasting effects. The product contains volatile organic compounds which have a photochemical ozone creation potential. Oil spills are generally hazardous to the environment.	

### 12. Disposal Considerations

<b>Waste treatment methods</b>	
<b>Residual waste</b>	Dispose of in accordance with local regulations.
<b>Contaminated packaging</b>	Since emptied containers may retain product residue, follow label warnings even after container is emptied.
<b>EU waste code</b>	13 07 02* 13 07 03* The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Disposal methods/information</b>	Dispose in accordance with all applicable regulations. This material and its container must be disposed of as hazardous waste. Do not discharge into drains, water courses or onto the ground.



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### 13. Transportation Information

Component	CAS #	
Heavy Naphtha	6471-54-4	DOT regulated marine pollutant

#### DOT Information

Shipping Name: Gasoline

UN #: 1268 Hazard Class: 3

Packing Group: II

Placard:



### 14. Other Information

This material Safety Data Sheet (SDS) was prepared in accordance with EC No 1272/2008 by Valero Energy Ltd. Valero Energy Ltd. does not assume any liability arising out of product use by others. The information, recommendations, and suggestions presented in this SDS are based upon test results and data believed to be reliable. The end user of the product has the responsibility for evaluating the adequacy of the data under the conditions of use, determining the safety, toxicity and suitability of the product under these conditions, and obtaining additional or clarifying information where uncertainty exists. No guarantee expressed or implied is made as to the effects of such use, the results to be obtained, or the safety and toxicity of the product in any specific application. Furthermore, the information herein is not represented as absolutely complete, since it is not practicable to provide all the scientific and study information in the format of this document, plus additional information may be necessary under exceptional conditions of use, or because of applicable laws or government regulations.

**End of MSDS**