



辽宁裕丰化工有限公司  
LIAONING YUFENG CHEMICAL CO., LTD

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# HAZARDOUS CHEMICAL MATERIAL SAFETY DATA SHEET MSDS

CHEMICAL NAME: ISOHEXANE

MANUFACTURER: LIAOYANG YUFENG CHEMICAL CO., LTD

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LIAOYANG YUFENG CHEMICAL COMPANY LIMITED

## ➤ Section 1 - Chemical Product

MSDS Name: Isohexane

Synonym: 2-Methylpentane; 1,1-Dimethylbutane.

Name:	<b>Isohexane Material Safety Data Sheet</b>
Synonym:	2-Methylpentane; 1,1-Dimethylbutane
CAS:	73513-42-5

### Material Safety Date Sheet

## ➤ Section 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	Chemical Name	content	EINECS#
73513-42-5	Isohexane	Above 95 %	203-523-4

Hazard Symbols: XN F N

Risk Phrases: 11 38 51/53 65 67

## ➤ Section 3 - HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

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

Harmful: may cause lung damage if swallowed. Vapours may cause drowsiness and dizziness.

### Potential Health Effects

#### Eye:

Causes severe eye irritation.

#### Skin:

Causes skin irritation. May be absorbed through the skin in harmful amounts.

#### Ingestion:

Causes gastrointestinal irritation with nausea, vomiting and diarrhea.

#### Inhalation:

Causes respiratory tract irritation. May cause effects similar to those described for ingestion.

#### Chronic:

Prolonged or repeated skin contact may cause dermatitis. Prolonged exposure may produce a narcotic effect.

#### ➤ **Section 4 - FIRST AID MEASURES**

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin:

Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.

Ingestion:

If victim is conscious and alert, give 2-4 cupfuls of milk or water.

Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation:

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:

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#### ➤ **Section 5 - FIRE FIGHTING MEASURES**

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors may form an explosive mixture with air.

Vapors can travel to a source of ignition and flash back. Extremely flammable liquid and vapor.

Extinguishing Media:

Use water spray to cool fire-exposed containers. Use foam, dry chemical, or carbon dioxide. Water may be ineffective. If water is the only media available, use in flooding amounts.

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#### ➤ **Section 6 - ACCIDENTAL RELEASE MEASURES**

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Clean up spills immediately, observing precautions in the Protective Equipment section. Scoop up with a nonsparking tool, then place into a suitable container for disposal. Remove all sources of ignition.

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## ➤ **Section 7 - HANDLING and STORAGE**

### Handling:

Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and wash before reuse. Use only in a well-ventilated area. Avoid contact with skin and eyes. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Take precautionary measures against static discharges.

Keep away from heat, sparks and flame. Avoid ingestion and inhalation. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.

### Storage:

Keep away from heat, sparks, and flame. Keep away from sources of ignition. Store in a cool, dry place. Do not store in direct sunlight. Keep container closed when not in use.

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## ➤ **Section 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION**

### Engineering Controls:

Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Exposure Limits CAS# 107-83-5: Germany: 200 ppm TWA; 720 mg/m<sup>3</sup> TWA Netherlands: 200 ppm MAC; 720 mg/m<sup>3</sup> MAC Personal Protective Equipment Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

### Skin:

Wear appropriate protective gloves to prevent skin exposure.

### Clothing:

Wear appropriate protective clothing to prevent skin exposure.

### Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

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## ➤ **Section 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Physical State: Liquid

Color: colorless

Odor: Perceptible odor.

pH: Not available.

Vapor Pressure: 180 mm Hg @ 21 C

Viscosity: Not available.  
Boiling Point: 62 deg C  
Freezing/Melting Point: -154 deg C  
Autoignition Temperature: 583 deg F ( 306.11 deg C)  
Flash Point: -10 deg F ( -23.33 deg C)  
Explosion Limits, lower: 1.0  
Explosion Limits, upper: 7.0  
Decomposition Temperature: Not available.  
Solubility in water: Insoluble in water.  
Specific Gravity/Density: 0.66  
Molecular Formula: C6H14  
Molecular Weight: 86.098

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#### ➤ **Section 10 - STABILITY AND REACTIVITY**

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

High temperatures, mechanical shock, incompatible materials, ignition sources, excess heat.

Incompatibilities with Other Materials:

Oxidizing agents.

Hazardous Decomposition Products:

Carbon monoxide, carbon dioxide.

Hazardous Polymerization: Has not been reported

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#### ➤ **Section 11 - TOXICOLOGICAL INFORMATION**

RTECS#:

CAS# 107-83-5: SA2985000 LD50/LC50:

Not available.

Carcinogenicity:

Isohexane - Not listed by ACGIH, IARC, or NTP.

Other:

See actual entry in RTECS for complete information.

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#### ➤ **Section 12 - ECOLOGICAL INFORMATION**

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#### ➤ **Section 13 - DISPOSAL CONSIDERATIONS**

Products which are considered hazardous for supply are classified as Special

Waste and the disposal of such chemicals is covered by regulations which may vary according to location. Contact a specialist disposal company or the local waste regulator for advice. Empty containers must be decontaminated before returning for recycling.

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#### ➤ **Section 14 - TRANSPORT INFORMATION**

IATA

Shipping Name: HEXANES

Hazard Class: 3

UN Number: 1208

Packing Group: II

IMO

Shipping Name: HEXANES

Hazard Class: 3

UN Number: 1208

Packing Group: II

RID/ADR

Shipping Name: HEXANES

Hazard Class: 3

UN Number: 1208

Packing group: II

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#### ➤ **Section 15 - REGULATORY INFORMATION**

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XN F N

Risk Phrases:

R 11 Highly flammable.

R 38 Irritating to skin.

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 65 Harmful: may cause lung damage if swallowed.

R 67 Vapours may cause drowsiness and dizziness.

Safety Phrases:

S 9 Keep container in a well-ventilated place.

S 16 Keep away from sources of ignition - No smoking.

S 29 Do not empty into drains.

S 33 Take precautionary measures against static

discharges.

S 61 Avoid release to the environment. Refer to special instructions/safety data sheets.

S 62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

WGK (Water Danger/Protection)

CAS# 107-83-5: 1

Canada

CAS# 107-83-5 is listed on Canada's DSL List.

CAS# 107-83-5 is listed on Canada's Ingredient Disclosure List.

US FEDERAL

TSCA

CAS# 107-83-5 is listed on the TSCA inventory.

## **Section 16 OTHER INFORMATION**

Reference date:

China petroleum and chemical corporation security ministry of supervision(Petroleum chemical poison manual)

Solvent device technology regulations/ Post operation procedures

Fill-in Date: 2017.8.31

Fill in DEPT.: Liaoning liaoyang yufeng chemical co., LTD. Solvent device

Data audit unit: office

Edit Description: edition

Validity: 10 years