

Dongying Liangxin Petrochemical Technology Development Limited Company

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HEXANE

CAS No. 110-54-3

## Chemical Safety Data Sheet

### Section 1 IDENTIFICATION

**GHS Product identifier:** Hexane**Other means of identification:** /**Recommended use of the chemical and restrictions on use:** Solvent**Supplier's details:**

Dongying Liangxin Petrochemical Technology Development Limited Company

Address: No.117 Guangqing Road, Dingzhuang, Guangrao, Dongying City, Shandong Province

Phone:0086-546-6403568

**Emergency phone number:** 86-546-6403245

### Section 2 HAZARDS IDENTIFICATION

**Classification of the substance or mixture:**

Flammable liquids Category 2

Skin corrosion/irritation Category 2

Reproductive toxicity Category 2

Specific target organ toxicity, single exposure; Narcotic effects Category 3

Specific target organ toxicity, repeated exposure Category 2 (Inhalation, nervous system)

Aspiration hazard Category 1

Hazardous to the aquatic environment, long-term hazard Category 2

**GHS Label elements, including precautionary statements:****Signal word:** Danger**Hazard statement(s):** Highly flammable liquid and vapor. Causes skin irritation. Suspected of damaging fertility or the unborn child. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure (Inhalation, nervous system). May be fatal if swallowed and enters airways. Toxic to aquatic life with long lasting effects.**Precautionary statement(s):**

Prevention:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground/Bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/protective clothing/eye protection/face protection. Wash .....thoroughly after handling. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Avoid

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release to the environment.

**Response:**

In case of fire: Use water foam, chemical powder, Carbon dioxide to extinguish. If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin (or hair): Take off contaminated clothing and wash it before reuse. Rinse skin with water/shower. Specific treatment (see under for further information). If skin irritation occurs: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If exposed or concerned: Get medical advice/attention. Get medical advice/attention if you feel unwell. Collect spillage.

**Storage:**

Store in a well-ventilated place. Keep cool. Store locked up. Keep container tightly closed.

**Disposal:**

Dispose of contents/container in accordance with local/regional/national/international regulations.

**Other hazards which do not result in classification: /**

## Section 3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration%
Hexane	110-54-3	99.5514%
Methylcyclopentane	96-37-7	0.177%
3-methylcyclopentane	/	0.1394%

## Section 4 FIRST AID MEASURES

**Description of necessary first aid measures**

**If inhaled:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact:** Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If Ingestion:** Rinse mouth with water. Do not induce vomit. Consult a physician.

**Most important symptoms/effects, acute and delayed: /****Indication of immediate medical attention and special treatment needed, if necessary: /**

## Section 5 FIREFIGHTING MEASURES

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[www.jypetrochem.com](http://www.jypetrochem.com)**HEXANE****CAS No. 110-54-3****Suitable extinguishing media:** Use alcohol-resistant foam, chemical powder, Carbon dioxide.**Special hazards arising from the chemical:** Liquid and vapour are highly flammable. May explode and burn in high temperature and fire and release toxic fumes.**Special protective actions for fire-fighters:** Wear self-contained breathing apparatus for firefighting if necessary. Use water spray to cool unopened containers.

## Section 6 ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.**Environmental precautions:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains.**Methods and materials for containment and cleaning up:** Contain spillage and then collect with pump and place in a clean container for disposal according to local regulations.

## Section 7 HANDLING AND STORAGE

**Precautions for safe handling:** Wear protective gloves/eye protection/face protection/protective clothing. Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking.**Conditions for safe storage, including any incompatibilities:** Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep away from flammable materials, acids and oxidizers.

## Section 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters:**

Source	Material	TWA	STEL
China Occupational Exposure Limits for Hazardous Agents in the Workplace	Hexane	100 mg/m <sup>3</sup>	180 mg/m <sup>3</sup>

**Appropriate engineering controls:** For flammable liquids and flammable gases, local exhaust ventilation or a process enclosure ventilation system may be required. Ventilation equipment should be explosion-resistant.**Individual protection measures****Eye/face protection:** Safety glasses with side shields. Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants.**Skin protection:** Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber. Impervious clothing,**Respiratory protection:** Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant.**Thermal hazards:** /

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## Section 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance (physical state, colour etc)</b>	Colorless transparent liquid.
<b>Odour</b>	/
<b>Odour Threshold</b>	/
<b>pH</b>	/
<b>Melting point/freezing point</b>	/
<b>Initial boiling point and boiling range</b>	69°C
<b>Flash point</b>	-23°C
<b>Evaporation rate</b>	/
<b>Flammability (solid, gas)</b>	HIGHLY FLAMMABLE.
<b>Upper/lower flammability or explosive limits</b>	1.2-7.5%
<b>Vapour pressure</b>	13.33
<b>Vapour density</b>	2.97
<b>Relative density</b>	0.6603 @ 20 °C
<b>Solubility(ies)</b>	Immiscible.
<b>Partition coefficient: n-octanol/water</b>	/
<b>Auto-ignition temperature</b>	/
<b>Decomposition temperature</b>	/
<b>Viscosity</b>	/

## Section 10 STABILITY AND REACTIVITY

<b>Reactivity:</b> /
<b>Chemical stability:</b> This material is stable in normal temperature.
<b>Possibility of hazardous reactions:</b> Reacts with strong oxidants. This generates fire and explosion hazard.
<b>Conditions to avoid:</b> Spark, high temperature and static electricity.
<b>Incompatible materials:</b> Flammable materials and oxidizers.
<b>Hazardous decomposition products:</b> Oxycarbides, other pyrolysis products typical of burning organic material.

## Section 11 TOXICOLOGICAL INFORMATION

<b>Information on the likely routes of exposure:</b> Inhaled, swallowed, skin, eyes.
<b>Symptoms related to the physical, chemical and toxicological characteristics:</b> /
<b>Acute health effects:</b> Accidental ingestion of the material may be harmful and cause cough, throat pain and drowsiness. Oral intake cause headache, giddiness, vomit and other symptoms. This material may produce skin and eyes irritation.
<b>Chronic health effects:</b> Repeated or prolonged exposure may damage nervous system.
<b>Numerical measures of toxicity(such as acute toxicity estimates):</b> /

## Section 12 ECOLOGICAL INFORMATION

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[www.jypetrochem.com](http://www.jypetrochem.com)**HEXANE****CAS No. 110-54-3****Toxicity:** Toxic to aquatic life with long lasting effects.**Persistence and degradability:** LOW.**Bioaccumulative potential:** MEDIUM (LogKOW = 3.9).**Mobility in soil:** LOW (KOC = 149).**Other adverse effects:** /

## Section 13 DISPOSAL CONSIDERATIONS

**Disposal methods:** Burial in a land-fill specifically licensed to accept chemical. Reuse of broken container is forbidden.

## Section 14 TRANSPORT INFORMATION

**UN number:** 1208.**UN proper shipping name:** HEXANES.**Transport hazard class(es) :** 3.**Packing group, if applicable:** II.**Environmental hazards:** Marine pollutant.**Special precautions for user:** /

## Section 15 REGULATORY INFORMATION

**Regulations:** This safety data sheet is in compliance with the following national standards: GB 16483-2008, GB 13690-2009, GB/T 15098-2008, GB 18218-2009, GB 15258-2009, GB 6944-2012, GB 190-2009, GB 191-2009, GB 12268-2008, GA 57-1993, GBZ 2-2007 as well as the following national regulations: Dangerous Goods Transport Administrative Regulation [Published by the Ministry of Railways, 2008], Dangerous Chemicals Safety Administrative Regulation [Published by the State Council, 2011].

## Section 16 OTHER INFORMATION

<b>References</b>	UN Recommendations on the Transport of Dangerous Goods Model Regulations
	UN Globally Harmonized System of Classification and Labelling of Chemicals
<b>Form Date</b>	02-Sep-2016

Note 1: As a result of product features without the existence of certain information or no data available (such as boiling point does not exist for the solid) in the table with "/" logo.