



## SAFETY DATA SHEET

### HEXANE

#### 1.IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Product name: HEXANE

Recommended use: Chemical for industrial

Manufacturer/Supplier: **MODERN CHEMICAL CO., LTD.**  
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#### 2. HAZARDS IDENTIFICATION

##### Label elements

Pictogram



Signal word

Danger

##### Hazard statement(s)

- 1.) Highly flammable liquid and vapour.
- 2.) Causes skin irritation.
- 3.) May be fatal if swallowed and enters airways.
- 4.) May cause drowsiness or dizziness.
- 5.) Toxic to aquatic life with long lasting effects.
- 6.) May damage the unborn child. Suspected of damaging fertility.

##### Precautionary statement(s)

- 1.) Keep away from heat/sparks/open flames/hot surfaces. - No smoking.



- 2.) Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
- 3.) Avoid release to the environment.
- 4.) IF SWALLOWED: call a doctor/physician. Do NOT induce vomiting.
- 5.) IF IN EYES: Rinse cautiously with water for 15 minutes.
- 6.) IF ON SKIN Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonym: N/A

| Ingredients | % (w/w) | CAS NO.  |
|-------------|---------|----------|
| HEXANE      | 100     | 110-54-3 |

### 4. FIRST AID MEASURES

- General advice:** Consult a physician. Show this safety data sheet to the doctor in attendance.
- Inhalation:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
- Skin contact:** Wash off with soap and plenty of water. Consult a physician.
- Eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- Ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media:**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Unsuitable Extinguishing Media:**

No data available

**Specific hazards arising from Chemicals:**

No data available

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

Wear self contained breathing apparatus for fire fighting if necessary.



## 6. ACCIDENTAL RELEASE MEAS

**Precautions:** Evacuate personnel to safe areas. Do not breathe vapors or spray mist. Remove all sources of ignition. Wear a positive-pressure supplied-air respirator, flame retardant antistatic protective clothing. Shut off leaks if without risk. Keep people away from and upwind of spill/leak.

**Environmental precautions:** Contain or absorb leaking liquid with sand or earth, consults an expert. Prevent liquid entering sewers, basements and workpits. If substance has entered a water course or sewer or contaminated soil or vegetation, advise police.

### Methods and Material for Containment and Clean Up:

**Spillage:** May react with combustible substances creating fire or explosion hazard and formation of toxic fumes. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Soak up with inert absorbent material (e.g. sand, silicagel). Prevent liquid entering sewers, basements and workpits; vapor may create explosive atmosphere. Transfer to covered steel drums. Dispose promptly.

## 7. HANDLING AND STORAGE

### Precautions for Safe Handling & Product Transfer:

Keep container tightly closed. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use only in area provided with appropriate exhaust ventilation. Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing. Do not empty into drains.

### Conditions for Safe Storage & Unsuitable Materials:

Keep tightly closed at room temperature in a dry, cool and well ventilated place. Keep away from heat and sources of ignition. Keep out of direct sunlight and away from incompatible material. Store in original container. Electrical equipment should be protected to the appropriate standard.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Occupational Exposure Limits:** OEL 72 mg/m<sup>3</sup> (20 ppm) TWA 90 mg/m<sup>3</sup> (25 ppm)

**Appropriate Engineering Controls:** No data available



## Individual Protection Measures

- Respiratory protection:** In case of insufficient ventilation, wear suitable respiratory and components test and approved under appropriate government standards such as NIOSH (USA) or CEN (EU). Require when vapors/aerosols are generated. Recommended Filter type: Filter A-(P2).
- Hand protection:** Handle with gloves. In case full contact wear gloves from nitrile rubber material, in splash contact wear gloves from polychlorene material. The select protective gloves have to satisfy the specifications of EU Directive 89/686 EEC and standard EN 374 derived from it.
- Eye protection:** Goggles giving complete protection to eyes.
- Skin and body protections:** Chemical resistant apron / flame retardant antistatic protective clothing, heavy duty work shoes.
- Hygiene measures:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end workday. Keep away from food, drink.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                                                        |                                                                 |
|------------------------------------------------------------------------|-----------------------------------------------------------------|
| <b>Form, Color and Odor:</b> liquid, Colorless, Characteristic         | <b>Evaporation rate:</b> 1000 (n-Bu acetate = 100)              |
| <b>Melting Point:</b> -95 °C                                           | <b>Specific gravity:</b> 0.670-0.685 g/cm <sup>3</sup> at 15 °C |
| <b>pH:</b> N/A                                                         | <b>Solubility in water:</b> Not Soluble                         |
| <b>Boiling point:</b> 64-70 °C                                         | <b>Viscosity:</b> 130 mPa.s                                     |
| <b>Vapour pressure:</b> 199 kPa at 20 °C                               | <b>Vapour density (air=1):</b> 3 g/l                            |
| <b>Lower explosive limits:</b> 1.2 %Vol                                | <b>Upper explosive limits:</b> 8 %Vol                           |
| <b>Auto-ignition temperature:</b> 535 °C                               | <b>Flash point:</b> 4°C                                         |
| <b>Odour threshold:</b> N/A                                            | <b>Flammability (solid, gas):</b> N/A                           |
| <b>Decomposition temperature:</b> N/A                                  | <b>Solubility in other solvents:</b> N/A                        |
| <b>n-octanol/water partition coefficient (log P<sub>ow</sub>):</b> N/A |                                                                 |

## 10. STABILITY AND REACTIVITY

- Chemical Stability:** Stable
- Reactions:** No data available
- Possibility of Hazardous Reactions:** No data available



|                                          |                                                                  |
|------------------------------------------|------------------------------------------------------------------|
| <b>Conditions to avoid:</b>              | Heating in air.                                                  |
| <b>Materials to avoid:</b>               | Strong Oxidizing agents.                                         |
| <b>Hazardous decomposition products:</b> | Other decomposition products - Carbon monoxides, Carbon dioxides |

## 11. TOXICOLOGICAL INFORMATION

|                                           |                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Acute toxicity:</b>                    | LD50 (oral, rat): 25000 mg/kg                                                                                                                                                                                                                                                                                                                                                       |
| <b>Sensitization:</b>                     | Irritations of mucous membranes coughing and dyspnoea. Drowsiness, drowsiness. Irritations to skin and eyes. Risk of serious damage to eyes. After swallowing, nausea and vomiting. After absorption, CNS disorders with drowsiness, drowsiness, inebriation, drop in blood pressure, cardiovascular disorders, depressed respiration and narcosis.<br>Damage of liver and kidneys. |
| <b>Chronic toxicity:</b>                  | No data available                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Further toxicological information:</b> | No data available                                                                                                                                                                                                                                                                                                                                                                   |

## 12. ECOLOGICAL INFORMATION

### Toxicity

|                                                      |                             |
|------------------------------------------------------|-----------------------------|
| Toxicity to fish:                                    | LC50 - 2.5 – 117 mg/l - 96h |
| Toxicity to daphnia and other aquatic invertebrates: | No data available           |
| Toxicity to algae                                    | No data available           |
| Toxicity to bacteria                                 | No data available           |
| <b>Biodegradability Remarks:</b>                     | No data available           |
| <b>Bioaccumulative Potential:</b>                    | No data available           |
| <b>Mobility:</b>                                     | No data available           |
| <b>Affected in any other way:</b>                    | No data available           |

## 13. DISPOSAL CONSIDERATIONS

|                           |                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Material Disposal:</b> | We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste or burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations. |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



**Container Disposal:** Disposal in compliance with official regulations. Handle contaminated packaging as hazardous waste in the same way of the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.

#### 14. TRANSPORT INFORMATION

##### ADR/RID

UN-No: 1208 Class: 3 Packing group: II

Proper shipping name: HEXANES

##### IMDG

UN-No: 1208 Class: 3 Packing group: II

Ems: F-E ,S-D

Proper shipping name: HEXANES

##### IATA

UN-No: 1208 Class: 3 Packing group: II

Proper shipping name: HEXANES

#### 15. REGULATORY INFORMATION

##### GHS-Labeling

##### Hazard statement(s):

no data available

##### Precautionary statement(s):

no data available

##### R - phrase(s):

no data available

##### S - phrase(s):

no data available



## 16. Other Information

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