

82/80 ซอขเอกมัย 22(นวลน้อย) ถ.สุขุมวิท 63 แขวงคลองตันเหนือ เขตวัฒนา กรุงเทพมหานคร 10110โทร0-2715-0897-9 แฟกซ์.0-2392-3410-3 82/80 Soi Eakmai 22(nuan-noi) 63 Sukhumvit Rd, Klong Ton Nuea, Wattana, Bangkok 10110 E-mail : service@modernchemical.co.th

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.
	82/80 Soi Ekamai 22 (Nuannoi), Sukhumvit 63,
	Klong Tan Nuea, Watthana, Bangkok 10110
Telephone No:	0-2715-0897-9, 0-2392-3410-3
Fax No:	0-2715-0908-9, 0-2391-1571-2
Emergency Telephone No:	0-2715-0897-9, 0-2392-3410-3

2. HAZARDS IDENTIFICATION

Label elements

Pictogram



Signal word

Hazard statement(s):

- 1.) Highly flammable liquid and vapor.
- 2.) May be fatal if swallowed and enters airways.
- 3.) Causes skin irritation.
- 4.) May cause drowsiness or dizziness.
- 5.) Suspected of damaging fertility.
- 6.) May cause damage to organs through prolonged or repeated exposure. Peripheral Nervous system
- 7.) Toxic to aquatic life with long lasting effects.

Precautionary statement(s):

1.) Obtain special instructions before use.



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- 2.) Do not handle until all safety precautions have been read and understood.
- 3.) Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- 4.) Keep container tightly closed.
- 5.) Ground / bond container and receiving equipment.
- 6.) Use explosion-proof electrical, ventilating, and lighting equipment.
- 7.) Use only non-sparking tools.
- 8.) Take precautionary measures against static discharge.
- 9.) Do not breathe mist /vapours.
- 10.) Wash skin thoroughly after handling.
- 11.) Use only outdoors or in a well-ventilated area.
- 12.) Avoid release to the environment.
- 13.) Wear protective gloves/protective clothing/eye protection/face protection.
- 14.) IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- 15.) IF ON SKIN: Wash with plenty of soap and water.
- 16.) IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- 17.) IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- 18.) IF exposed or concerned: Get medical advice/attention.
- 19.) Call a POISON CENTER or doctor/physician if you feel unwell.
- 20.) Do NOT induce vomiting.
- 21.) If skin irritation occurs: Get medical advice/attention.
- 22.) Take off contaminated clothing and wash it before reuse.
- 23.) In case of fire: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish.
- 24.) Collect spillage.
- 25.) Store in a well-ventilated place. Keep cool.
- 26.) Store locked up.
- 27.) Dispose of contents and container in accordance with local regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonym: N/A

Ingredients	% (w/w)	CAS NO.
HEXANE	100	64742-49-0



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4. FIRST AID MEASURES

General advice:	No data available.		
Inhalation:	Remove from further exposure. For those providing assistance, avoid exposure to yourself or		
	other. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or		
	unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist		
	ventilation with a mechanical device or use mouth-to-mouth resuscitation.		
Skin contact:	Wash contact areas with soap and water. Remove contaminated clothing. Launder		
	contaminated clothing before reuse.		
Eye contact:	Flush thoroughly with water. If irritation occurs, get medical assistance.		
Ingestion:	Seek immediate medical attention. Do not induce vomiting.		

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Use foam, dry chemical or carbon dioxide to extinguish flames.

Unsuitable Extinguishing Media:

Straight streams of water.

Specific hazards arising from Chemicals:

Highly flammable. Vapour is flammable and heavier than air. Vapour may travel across the ground and reach remote ignition sources, causing a flashback fire danger.

Special protective equipment for fire-fighters:

Wear appropriate personal protective equipment, Wear Chemical resistant clothing, Safety helmet, gloves and boots. Fire-fighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA).

6. ACCIDENTAL RELEASE MEAS

Precautions:

Avoid contact with spilled material. Keep unnecessary and unprotected personnel away. Keep upwind, evacuate downwind. Warn personnel of toxicity and flammability of the substance. Evacuate personnel to safe areas. See Section 5 for fire fighting information. See Section 3 for the Hazard Identification. See Section 4 for First Aid Advice. See Section 8 for advice on the minimum requirements for personal protective equipment. Additional protective measures may be necessary, depending on the specific circumstances and/or the expect judgment of the



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emergency responders.

For emergency responders: Respiratory protection: half-face or full-face respirator with filter(s) for organic vapor and, when applicable, H2S, or Self Contained Breathing Apparatus (SCBA) can be used depending on the size of spill and potential level of exposure. It the exposure cannot be completely characterized or an oxygen deficient atmosphere is possible or anticipated, SCBA is recommended. Work gloves that are resistant to aromatic hydrocarbons are recommended. Note: gloves made of polyvinyl acetate (PVA) are not water-resistant and are not suitable for emergency use. Chemical goggles are recommended if splashes or contact with eyes is possible. Small spills: normal antistatic work clothes are usually adequate. Large spills: full body suit of chemical resistant, antistatic material is recommended.

Environmental precautions: Large Spills: Dyke far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

Methods and Material for Containment and Clean Up:

Land Spill: Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk. All equipment used when handing the product must be grounded. Do not touch or walk through spilled material. Prevent entry into waterways, sewer, basements or confined areas. A vapour-suppressing foam may be used to reduce vapour. Use clean non-sparking tools to collect absorbed material. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

Large Spills: Water spray may reduce vapour, but may not prevent ignition in enclosed spaces.

Water Spill: Stop leak if you can do so without risk. Warn other shipping. Remove from the surface by skimming or with suitable absorbents. Seek advice of a specialist Seek the advice of a specialist before using dispersants.Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note. Local regulations may prescribe or limit action to be taken.



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7. HANDLING AND STORAGE

Precautions for Safe Handling & Product Transfer:

Avoid all personal contact. Prevent exposure to ignition sources, for example use non-sparking tools and explosionproof equipment. Potentially toxic/irritating fumes/vapour may be evolved from heated or agitated material. Use only with adequate ventilation. Prevent small spills and leakage to avoid slip hazard. Material can accumulate static charges which may cause an electrical spark (ignition source). Use proper bonding and/or ground procedures. However, bonding and earthing may not eliminate the hazard from static accumulation. Consult local applicable standards for guidance. Additional references include American Petroleum Institute 2003 (Protection Against Ignitions Arising out of Static, Lightning and Stray Currents) or National Fire Protection Agency 77 (Recommended Practice on Static Electricity) or CENELEC CLC/TR 50404 (Electrostatics-Code of practice for the avoidance of hazards due to static electricity).

Conditions for Safe Storage & Unsuitable Materials:

Ample fire water supply should be available. A fixed sprinkler/deluge system is recommended. The type of container used to store the material may effect static accumulation and dissipation. Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Store in a cool, well-ventilated area. Storage containers should be earthed and bonded. Fixed storage containers, transfer containers and associated equipment should be grounded and bonded to prevent accumulation of static charge.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits: TWA 500 ppm, STEL 1000 ppm.

Appropriate Engineering Controls: Adequate ventilation should be provided so that exposure limits are not exceeded. Use explosion-proof ventilation equipment.

Individual Protection Measures

Respiratory protection:

Wear half-face filter respirator Type A filter material. For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapour warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

Hand protection:Any specific glove information provided is based on published literature and glove
manufacturer data. Glove suitability and breakthrough time will differ depending on
the specific use conditions. Contact the glove manufacturer for specific advice on
glove selection and breakthrough times for your use conditions. Inspect and replace

บริษัท โมเดอนเคมีเคิล จำกัด (สำนักงานใหญ่)

(MODERN CHEMICAL CO.,LTD. (Head Office))



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	worn or damaged gloves. The types of gloves to be considered for this material	
	include: Chemical resistant gloves are recommended. Nitrile.	
Eye protection:	If contact is likely, safety glasses with side shields are recommended.	
Skin and body protections:	Any specific clothing information provided is based on published literature or	
	manufacturer data. The types of clothing to be considered for this material include:	
	Chemical/oil resistant clothing is recommended.	
Hygiene measures:	Always observe good personal hygiene measures, such as washing after handling	
	the material and before eating, drinking, and/or smoking. Routinely wash work	
	clothing and protective equipment to remove contaminants. Discard contaminated	
	clothing and footwear that cannot be cleaned. Practice good housekeeping.	

9. PHYSICAL AND CHEMICAL PROPERTIES

Form, Color and Odor : liquid, Colorless , Petroleum/Slight	Evaporation rate : 14 (n-butyl acetate = 1)
Melting Point : N/D	Specific gravity : 0.670-0.685 g/cm ³ at 15 °C
pH:N/A	Solubility in water : Negligible
Boiling point : 64 - 70 °C	Viscosity : 0.44 cSt at 40 °C
Vapour pressure : 17.6 kPa at 20 °C	Vapour density (air=1): 2.9 at 101 kPa
Lower explosive limits : 1.2 %Vol	Upper explosive limits : 8.3 %Vol
Auto-ignition temperature : 280 °C	Flash point: -28 °C
Odour threshold: N/D	Flammability (solid, gas): N/A
Decomposition temperature: N/D	Solubility in other solvents: N/A
n-octanol/water partition coefficient (log P _{ow}): N/D	

10. STABILITY AND REACTIVITY

Chemical Stability:	Material is stable under normal conditions.
Reactions:	No data available.
Possibility of Hazardous Reactions:	Hazardous polymerization will not occur.
Conditions to avoid:	Avoid heat, sparks, open flames and other ignition sources.
Materials to avoid:	Strong oxidizers.
Hazardous decomposition products:	Material does not decompose at ambient temperatures.



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11. TOXICOLOGICAL INFORMATION

Acute toxicity:		LD50 (Oral, rat): >5000 mg/kg	
		LD50 (Skin, rabbit): >3350 mg/kg	
		LC50 (Inhalation, rat): > 20 mg/l	
Sensitization:		Vapour/aerosol concentration above recommended exposure levels are	
		irritation to the eyes and respiratory tract, may cause headaches, dizziness,	
		anaesthesia, drowsiness, unconsciousness and other central nervous system	
		effects including death. Prolonged and/or repeated skin contact with low	
		viscosity materials may defat the skin resulting in possible irritation and	
		dermatitis. Small amounts of liquid aspirated into the lungs during ingestion	
		or from vomiting may cause chemical pneumonitis or pulmonary edema.	
		Exposure to this material, or one of its components, in situations where there	
		is the potential for high levels, such as in confined spaces or with abuse, may	
		result in abnormal heart rhythm (arrhythmia). High-level exposure to	
		hydrocarbons (above occupational exposure limits) may initiate arrhythmia	
		in a worker that is undergoing stress or is taking a heart-stimulating	
		substance such as epinephrine, a nasal decongestant, or an asthma	
		cardiovascular drug.	
Chronic toxicity:		Anticipated health effects from sub-chronic, chronic, respiratory or skin	
		sensitization, mutagenicity, reproductive toxicity, carcinogenicity, target	
		organ toxicity (single exposure or repeated exposure), aspiration toxicity	
	APY'	and other effects based on human experience and/or experimental data.	

Further toxicological information:

12. ECOLOGICAL INFORMATION

Toxicity			
Toxicity to fish:	No data available.		
Toxicity to daphnia and other aquatic invertebrates: No data available.			
Toxicity to algae:	No data available.		
Toxicity to bacteria:	No data available.		
Biodegradability Remarks:	Expected to be readily biodegradable.		
Bioaccumulative Potential:	No data available.		

No data available.



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Mobility:	Highly volatile, will partition rapidly to air. Not expected to partition to
	sediment and wastewater solids.
Affected in any other way:	Expected to be toxic to aquatic organisms. May cause long-term adverse
	effects in the aquatic environment.

13. DISPOSAL CONSIDERATIONS

 Material Disposal:
 Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products.

Container Disposal: Empty Container warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death.

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:	Π
Ems: F-E S-D			
Proper shipping name: HEXANES			
ΙΑΤΑ			
UN-No: 1208	Class: 3	Packing group:	Π
Proper shipping name: HEXANES			

15. REGULATORY INFORMATION

This material is considered hazardous according to the classification criteria of the Hazard Classification and

Communication System for Hazardous Material BE 2555.



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REGULATORY STATUS AND APPLICABLE LAWS AND REGULATIONS

Hazardous Substance Act BE2535: Regulated

Listed or exempt from listing / notification on the following chemical inventories: AICS, DSL, ENCS, IECSC, KECI, PICCS, TCSI, TSCA

16. Other Information

Modern Chemical Co.,Ltd. provides the information contained herein in good faith but makes no representation as to its comprehensive or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

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