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**1. PRODUCT AND COMPANY IDENTIFICATION**

Product name	n-Heptane
Synonyms	Normal Heptane, Heptane
Grade	ACS, HPLC, Anapremium, Dehydrous
Company	Anaqua Chemicals Supply
	1510 Eldridge Parkway, Suite 110-268 Houston, TX 77077, USA
Telephone	(281)-668-0032
Fax	(281)-668-0033

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**2. COMPOSITION/ INFORMATION ON INGREDIENTS**

Formula	$\text{CH}_3(\text{CH}_2)_5\text{CH}_3$
CAS-No.	142-82-5
Index-No.	601-008-00-2
Ec-No.	205-563-8
Concentration	> 95 %

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**3. HAZARDS IDENTIFICATION****GHS Classification**

Flammable liquids	Category 2
Skin irritation	Category 2
Acute aquatic toxicity	Category 1
Aspiration hazard	Category 1
Specific target organ toxicity- single exposure	Category 3
Chronic aquatic toxicity	Category 1

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**4. FIRST AID MEASURES**

Inhalation	If breathed in, move to fresh air. If not breathing, give artificial respiration. Consult a physician.
Ingestion	Rinse mouth with water. Consult a physician immediately.
Skin Contact	Immediately wash off with plenty of water for at least 15 minutes. Consult a physician.
Eye Contact	Rinse through with plenty of water for at least 15 minutes. Consult a physician.
Note to Physician	Treat symptomatically

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## 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Use media such as alcohol-resistant foam, dry chemical, dry sand or carbon dioxide. Cool closed containers exposed to fire with water spray
Specific hazards during fire fighting	Combustible material. Container may explode when heated. Vapors may form explosive mixtures with air at ambient temperature and vapors may flash back.
Special protective equipment for fire-fighters	Wear self contained breathing apparatus for fighting if necessary.

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## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective clothing and ventilation equipments. Avoid breath in vapors, mist or gas. Ensure adequate ventilation.
Environmental precautions	Do not release into drains.
Methods for cleaning up	Soak up with inert absorbent material and dispose in suitable, closed containers.

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## 7. HANDLING AND STORAGE

Handling	Wear personal protective equipments. Avoid breath in vapors, mist or gas. Avoid contact with skin and eye. Keep away from hot surface, open fire and any sources of ignition. Take measures against electrostatic charge.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from source of ignition.

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## 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

### Occupational exposure controls

Engineering Measures	Ensure that eye washer and emergency showers are close to the working place. Ensure adequate ventilation. Work under hood.
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### Personal protective Equipment

Respiratory protection	Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)
Hand protection	Wear appropriate protective gloves.
Eye protection	Tightly fitting safety glasses.
Skin and body protection	Protective clothes should be selected specifically for the work place according to concentration and quantity of the chemical handled.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice. Wash hands and face before breaks and at the end of working day.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Liquid
Color	Colorless
pH	No data available
Oxidizing properties	No data available
Melting point	-91.0 °C (-131.8 °F)
Boiling point	98 °C (208.4 °F)
Flash point	-4 °C (24.8 °F)
Lower explosion limit	1 % (V)
Upper explosion limit	7 % (V)
Vapor pressure	48 mbar at 20.0 °C (68.0 °F)
Density	0.684 g/ mL
Water solubility	Insoluble
Partition coefficient: n-octanol/ water	log Pow: >3,000log Pow:5
Molecular weight	100.20

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## 10. STABILITY AND REACTIVITY

Storage stability	Stable under recommended storage conditions
Conditions to avoid	Sources of ignition. Excess heat. Exposure to direct sunlight.
Materials to avoid	Strong oxidizing agents
Hazardous decomposition products	Carbon monoxide, Carbon dioxide

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## 11. TOXICOLOGICAL INFORMATION

Acute toxicity	LD50 Inhalation 103.000 mg/m3 (Rat) 4 h
Skin irritation	No data available
Eye irritation	No data available
Sensitization	No data available
Carcinogenicity	There are no known carcinogenic chemicals in this product
Symptoms of Exposure	Drowsiness, Drowsiness, Central nervous system depression, Narcosis.
Specific target organ toxicity – single exposure (GHS)	May cause drowsiness or dizziness.
Specific target organ toxicity – repeated exposure (GHS)	No data available

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## 12. ECOLOGICAL INFORMATION

Persistence and degradability	No available information
Ecotoxicity	
Toxicity to fish	LC50 4 mg/l (Carassius auratus) 24 h
Toxicity to daphnia and other aquatic invertebrates	EC50 1.50 mg/l (Daphnia magna) 48 h
Mobility	No available information

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## 13. DISPOSAL CONSIDERATIONS

Product	Chemical should be disposed of in accordance with local environmental regulations. Contact a licensed professional waste disposal service to dispose of this chemical.
Packaging	Empty containers should be disposed of in accordance with local environmental regulations and taken for local recycling, recovery or waste disposal.

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## 14. TRANSPORT INFORMATION

### IATA

UN-Number: 1206 Class: 3 Packing group: II  
Proper shipping name: n-Heptane

### IMDG

UN-Number: 1206 Class: 3 Packing group: II  
Proper shipping name: n-Heptane

### DOT (US)

UN-Number: 1206 Class: 3 Packing group: II  
Proper shipping name: n-Heptane  
Marine pollution: No

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## 15. REGULATORY INFORMATION

### Hazard statements

H225: Highly flammable liquid and vapour  
H304: May be fatal if swallowed and enters airways  
H315: Cause skin irritation  
H336: May cause drowsiness or dizziness  
H401: Toxic to aquatic life

### Precautionary statements

P210: Keep away from heat/spark/open flames/hot surface.  
P261: Avoid breathing dust/fume/gas/mist/vapors/spray.  
P301 + P310: If swallowed: Immediately call a poison center or doctor/physician.  
P331: Do not induce vomiting.  
P501: Dispose of contents/container to an approved waste disposal plant.

## GHS-Labeling

Pictogram



Signal word *Danger*

Labeling according to EC Directive

Symbol(s): F- Highly flammable    Xn- Harmful    N- Dangerous for the environment

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## 16. OTHER INFORMATION

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