



# Safety Data Sheet

acc. to OSHA HCS

Printing date 09/15/2016

Version 3

Reviewed on 10/30/2013

## 1 Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Product name : n-Heptylbenzene  
Product number : 506708  
CAS-No. : 1078-71-3  
Synonyms: 1-Phenylheptane

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

### 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: J&K Scientific LLC  
601 Interchange Blvd, Newark, DE 19711  
Telephone/Fax: +1 952 942 3333 / +1 952 942 3322  
E-mail address: jkus@jk-scientific.com  
J&K Scientific Ltd.  
AEF 18/F Bldg-D Majesty Garden 6 Bei-Si-Huan-Zhong Rd. Beijing  
Telephone/Fax: +86 10 8284 8833 / +86 10 8284 9933  
E-mail address: jkinfo@jkchemical.com

Preparation Information: Product safety department

Emergency telephone number: +1 800 424 9300 (for USA & Canada)

## 2 Hazards identification

### 2.1 Classification of the substance or mixture GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

The substance is not classified according to the Globally Harmonized System (GHS).

### 2.2 Label elements

GHS label elements Not regulated  
Hazard pictograms Not regulated  
Signal word Not regulated  
Hazard statements Not regulated

### Classification system

NFPA ratings (scale 0 - 4)

Health = 0  
Fire = 1  
Reactivity = 0

HMIS-ratings (scale 0 - 4)

HEALTH 0 Health = 0  
FIRE 1 Fire = 1  
REACTIVITY 0 Reactivity = 0

### 2.3 Other hazards

#### Results of PBT and vPvB assessment

PBT: Not applicable.  
vPvB: Not applicable.

## 3 Composition/information on ingredients

### Chemical characterization: Substances

MF: C13H20

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MW: 176.30  
 CAS-No. Description 1078-71-3 n-Heptylbenzene  
 Identification number(s)  
 EC number: 214-084-3

## 4 First-aid measures

### 4.1 Description of first aid measures

**General information:** Consult a physician. Show this safety data sheet to the doctor in attendance.

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

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

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

**After swallowing:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 4.2 Information for doctor

**Most important symptoms and effects, both acute and delayed** To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Indication of any immediate medical attention and special treatment needed**

No data available

## 5 Fire-fighting measures

### 5.1 Extinguishing media

**Suitable extinguishing agents:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**5.2 Special hazards arising from the substance or mixture**

Carbon oxides

## 6 Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust. Remove persons from danger area.

**Environmental precautions:**

Do not let product enter drains.

**6.2 Methods and material for containment and cleaning up**

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

**6.3 Reference to other sections**

See Section 7 for information on safe handling.  
 See Section 8 for information on personal protection equipment.  
 See Section 13 for disposal information.

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## 7 Handling and storage

### 7.1 Handling

**Precautions for safe handling**  
**Information about protection**  
**against explosions and fires**

No special precautions are necessary if used correctly.

No special measures required.

### 7.2 Storage

**Conditions for safe storage,**  
**including any incompatibilities**

Store in a 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.

## 8 Exposure controls/personal protection

### 8.1 Control parameters

**Components with limit values**  
**that require monitoring at the**  
**workplace**

Not required.

**Additional information:**

The lists that were valid during the creation were used as basis.

### 8.2 Exposure controls

**Personal protective equipment**  
**General protective and hygienic**  
**measures:**

The usual precautionary measures for handling chemicals should be followed.

**Breathing equipment:**

Not required.

**Protection of hands:**

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**Material of gloves :**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

**Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Body protection:**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

## 9 Physical and chemical properties

### Information on basic physical and chemical properties

#### General Information

##### Appearance

**Form:**

Liquid

**Color:**

Colorless

**Odor:**

uncharacteristic

**Odor threshold:**

Not determined.

**pH-value:**

Not determined.

#### Change in condition

**Melting point/Melting range:**

-48 °C (-54 °F)

**Boiling point/Boiling range:**

233 °C (451 °F)

**Flash point:**

95 °C (203 °F)

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<b>Flammability (solid, gaseous):</b>	Not applicable.
<b>Ignition temperature:</b>	
Decomposition temperature:	Not determined.
<b>Auto igniting:</b>	Not determined.
<b>Danger of explosion:</b>	Product does not present an explosion hazard.
<b>Explosion limits</b>	
Lower:	Not determined.
Upper:	Not determined.
<b>Vapor pressure:</b>	Not determined.
<b>Density at 20 °C (68 °F):</b>	0.86 g/cm <sup>3</sup> (7.177 lbs/gal)
<b>Bulk density:</b>	Not determined
<b>Relative density</b>	Not determined.
<b>Vapor density</b>	Not determined.
<b>Evaporation rate</b>	Not determined.
<b>Solubility in / Miscibility with</b>	
Water:	Not determined.
<b>Partition coefficient (n-octanol/water):</b>	Not determined.
<b>Viscosity:</b>	
Dynamic:	Not determined.
Kinematic:	Not determined.
<b>Other information</b>	no data available

## 10 Stability and reactivity

<b>10.1 Reactivity</b>	No data available
<b>10.2 Chemical stability</b>	Stable under recommended storage conditions.
<b>10.3 Possibility of hazardous reactions</b>	No dangerous reactions known.
<b>10.4 Conditions to avoid</b>	No data available
<b>10.5 Incompatible materials</b>	Strong oxidizing agents
<b>10.6 Hazardous decomposition products</b>	No dangerous decomposition products known.

## 11 Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Primary irritant effect

<b>on the skin:</b>	No irritant effect.
<b>on the eye:</b>	No irritating effect.
<b>Sensitization:</b>	No sensitizing effects known.

#### Carcinogenic categories

<b>IARC (International Agency for Research on Cancer)</b>	Substance is not listed.
<b>NTP (National Toxicology Program)</b>	Substance is not listed.
<b>OSHA-Ca (Occupational Safety &amp; Health Administration)</b>	Substance is not listed.

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## 12 Ecological information

### 12.1 Toxicity

Aquatic toxicity No data available

### 12.2 Persistence and

degradability No data available

### 12.3 Behavior in environmental systems

Bioaccumulative potential : No data available

Mobility in soil : No data available

### 12.4 Additional ecological information

General notes: Not known to be hazardous to water.

### 12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects : No data available

## 13 Disposal considerations

**13.1 Product** Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**13.2 Contaminated packaging** Dispose of as unused product.

**13.3 Recommendation** Disposal must be made according to official regulations.

## 14 Transport information

### 14.1 UN-Number

DOT, ADR, IMDG, IATA UN3082

### 14.2 UN proper shipping name

DOT Environmentally hazardous substances, liquid, n.o.s. (n-Heptylbenzene)

ADR 3082 Environmentally hazardous substances, liquid, n.o.s. (n-Heptylbenzene)

IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (n-Heptylbenzene), MARINE POLLUTANT

IATA ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (n-Heptylbenzene)

### 14.3 Transport hazard class(es)

DOT, ADR, IMDG, IATA



Class 9 Miscellaneous dangerous substances and articles

Label 9

### 14.4 Packing group

DOT, ADR, IMDG, IATA III

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## 14.5 Environmental hazards:

Marine pollutant: Yes (PP)  
 Special precautions for user Warning: Miscellaneous dangerous substances and articles  
 Danger code (Kemler): 90  
 Stowage Category A

## Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

## 14.6 Transport/Additional information:

### DOT

Quantity limitations On passenger aircraft/rail: No limit  
 On cargo aircraft only: No limit

### ADR

Excepted quantities (EQ) Code: E1  
 Maximum net quantity per inner packaging: 30 ml  
 Maximum net quantity per outer packaging: 1000 ml

### IMDG

Limited quantities (LQ) 5L  
 Excepted quantities (EQ) Code: E1  
 Maximum net quantity per inner packaging: 30 ml  
 Maximum net quantity per outer packaging: 1000 ml

## UN "Model Regulation":

UN 3082 ENVIRONMENTALLY HAZARDOUS  
 SUBSTANCES, LIQUID, N.O.S. (N-HEPTYLBENZENE), 9,  
 III

## 15 Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### Sara

Section 355 (extremely hazardous substances): Substance is not listed.

Section 313 (Specific toxic chemical listings): Substance is not listed.

#### TSCA (Toxic Substances

Control Act): Substance is listed.

#### Proposition 65

Chemicals known to cause cancer: Substance is not listed.

Chemicals known to cause reproductive toxicity for females: Substance is not listed.

Chemicals known to cause reproductive toxicity for males: Substance is not listed.

Chemicals known to cause developmental toxicity: Substance is not listed.

#### Carcinogenic categories

EPA (Environmental Protection Agency) Substance is not listed.

TLV (Threshold Limit Value established by ACGIH) Substance is not listed.

NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.

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<b>GHS label elements</b>	Not regulated
<b>Hazard pictograms</b>	Not regulated
<b>Signal word</b>	Not regulated
<b>Hazard statements</b>	Not regulated

## 15.2 Chemical safety

**assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other information

The above information is believed to be correct but does not represent any guarantee of the properties of the product, Some new information or amendments may be added afterwards. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility. Any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

**Abbreviations and acronyms:**

- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation
- IATA: International Air Transport Association
- PP: Severe Marine Pollutant
- ACGIH: American Conference of Governmental Industrial Hygienists
- EINECS: European Inventory of Existing Commercial Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- NFPA: National Fire Protection Association (USA)
- HMIS: Hazardous Materials Identification System (USA)
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- NIOSH: National Institute for Occupational Safety
- OSHA: Occupational Safety & Health
- TLV: Threshold Limit Value
- PEL: Permissible Exposure Limit
- REL: Recommended Exposure Limit