

## Heptane

34873-1L

Version 1.6

Revision Date 17.12.2022

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

#### 1.1. Product identifier

Product name : Heptane  
SDS-number : 000000020373  
Type of product : Substance  
Remarks : SDS according to Art. 31 of Regulation (EC) 1907/2006.  
In accordance to the Article 14 (1) of the REACH Regulation  
(EC) No 1907/2006, exposure estimation and risk  
characterisation is not required.

Chemical name : Heptane  
Index-No. : 601-008-00-2  
REACH Registration Number : no data available

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

Use of the Substance/Mixture : Laboratory chemicals  
Uses advised against : none

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

Company	: Honeywell International Inc. 115 Tabor Road 07950-2546 Morris Plains USA	Honeywell International, Inc. 115 Tabor Road Morris Plains, NJ 07950-2546 USA
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Telephone :  
For further information, please contact: : [SafetyDataSheet@Honeywell.com](mailto:SafetyDataSheet@Honeywell.com)

#### 1.4. Emergency telephone number

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Emergency telephone : +1-703-527-3887 (ChemTrec-Transport)  
number : +1-303-389-1414 (Medical)  
Country based Poison : see chapter 15.1  
Control Center

### SECTION 2: Hazards identification


#### 2.1. Classification of the substance or mixture

##### REGULATION (EC) No 1272/2008

Flammable liquids Category 2  
H225 Highly flammable liquid and vapour.  
Aspiration hazard Category 1  
H304 May be fatal if swallowed and enters airways.  
Skin irritation Category 2  
H315 Causes skin irritation.  
Specific target organ toxicity - single exposure Category 3 - Central nervous system  
H336 May cause drowsiness or dizziness.  
Short-term (acute) aquatic hazard Category 1  
H400 Very toxic to aquatic life.  
Long-term (chronic) aquatic hazard Category 1  
H410 Very toxic to aquatic life with long lasting effects.

#### 2.2. Label elements

##### REGULATION (EC) No 1272/2008

Hazard pictograms : 

Signal word : Danger

Hazard statements : H225 Highly flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H336 May cause drowsiness or dizziness.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements : P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition

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P243	sources. No smoking. Take precautionary measures against static discharge.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P280	Wear protective gloves/ eye protection/ face protection.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.

### 2.3. Other hazards

Inhalation of high vapour concentrations can cause CNS-depression and narcosis. Results of PBT and vPvB assessment, see chapter 12.5.

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Chemical name	CAS-No. Index-No. REACH Registration Number EC-No.	Classification 1272/2008	Concentration	Remarks
Heptane	142-82-5 601-008-00-2 205-563-8	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Corr. 2; H315 STOT SE 3; H336 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	100 %	

### 3.2. Mixture

Not applicable

Occupational Exposure Limit(s), if available, are listed in Section 8.

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For the full text of the H-Statements mentioned in this Section, see Section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

*General advice:*

First aider needs to protect himself. Move out of dangerous area. Take off all contaminated clothing immediately. If unconscious, place in recovery position and seek medical advice.

*Inhalation:*

In case of accident by inhalation: remove casualty to fresh air and keep at rest. Consult a physician.

*Skin contact:*

After contact with skin, wash immediately with plenty of soap and water.

*Eye contact:*

Protect unharmed eye. Rinse thoroughly with plenty of water, also under the eyelids. Call a physician immediately.

*Ingestion:*

When swallowed, allow water to be drunk. Call a physician immediately.

#### 4.2. Most important symptoms and effects, both acute and delayed

No data available

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

See Section 11 for more detailed information on health effects and symptoms.

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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

*Suitable extinguishing media:*

Foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry powder

*Extinguishing media which shall not be used for safety reasons:*

Do not use a solid water stream as it may scatter and spread fire.

#### 5.2. Special hazards arising from the substance or mixture

Flammable.

Vapours may form explosive mixtures with air.

Vapours are heavier than air and may spread along floors.

Vapors may travel to areas away from work site before igniting/flashing back to vapor source.

Fire may cause evolution of:

Carbon oxides

#### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit.

No unprotected exposed skin areas.

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

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### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Evacuate personnel to safe areas. Wear personal protective equipment. Unprotected persons must be kept away. Immediately contact emergency personnel.

#### 6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so.

#### 6.3. Methods and materials for containment and cleaning up

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Soak up with inert absorbent material.  
Pick for disposal in tightly closed containers  
Use low-sparking handtools and explosion-proof electrical equipment  
Eliminate all ignition sources if safe to do so.

### 6.4. Reference to other sections

For personal protection see section 8.

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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

*Advice on safe handling:*

Exhaust ventilation at the object is necessary. Wear personal protective equipment. Keep limited supplies at workplace. Keep container in liquid-impermeable tub. Never return unused material to storage receptacle.

*Advice on protection against fire and explosion:*

The heavy vapours can overcome a considerable distance up to the source of ignition. The product is easily combustible. Use only in explosion-proof areas. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Vapours may form explosive mixtures with air.

*Hygiene measures:*

Take off all contaminated clothing immediately. Recommended preventive skin protection Keep working clothes separately. When using, do not eat, drink or smoke.

### 7.2. Conditions for safe storage, including any incompatibilities

*Further information on storage conditions:*

Store in original container. Do not leave vessels/containers open Keep in a dry, cool and well-ventilated place.

*Advice on common storage:*

Do not store together with oxidizing and self-igniting products.

### 7.3. Specific end use(s)

no additional data available

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### *Occupational exposure limits:*

Components	Basis / Value type	Value / Form of exposure	Exceeding Factor	Remarks
Heptane	EH40 WEL			Listed
Heptane	EU ELV TWA	2.085 mg/m <sup>3</sup> 500 ppm		Indicative
Heptane	EH40 WEL TWA	2.085 mg/m <sup>3</sup> 500 ppm		

TWA - Time weighted average

##### DNEL/ PNEC-Values

Component	End-use/impact	Exposure duration	Value	Exposure routes	Remarks
Heptane	Workers / Long-term systemic effects		2085 mg/m <sup>3</sup>	Inhalation	
Heptane	Workers / Long-term systemic effects		300mg/kg bw/d	Skin contact	
Heptane	Consumers / Long-term systemic effects		447 mg/m <sup>3</sup>	Inhalation	
Heptane	Consumers / Long-term systemic effects		149mg/kg bw/d	Skin contact	
Heptane	Consumers / Long-term systemic effects		149mg/kg bw/d	Ingestion	

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No PNEC data available.

Heptane

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No data available

### 8.2. Exposure controls

#### Occupational exposure controls

The Personal Protective Equipment must be in accordance with EN standards:respirator EN 136, 140, 149; safety glasses EN 166; protective suit: EN 340, 463, 468, 943-1, 943-2; gloves EN 374, 511; safety shoes EN-ISO 20345.

#### Engineering measures

Use with local exhaust ventilation.

Take measures to prevent the build up of electrostatic charge.

Use explosion-proof equipment.

#### Personal protective equipment

*Respiratory protection:*

Recommended Filter type:

Type A

In the case of vapour formation use a respirator with an approved filter.

*Hand protection:*

Glove material: Nitrile rubber

Break through time: > 480 min

Glove thickness: 0,4 mm

Camatril® 730

Remarks:Supplementary note: The specifications are based on information and tests from similar substances by analogy.

Due to varying conditions ( e.g.temperature or other strains) it must be considered that the usage of a chemical protective glove in practice may be much shorter than the permeation time determined in accordance with EN 374.

Since actual conditions of practical use often deviate from standardised conditions according EN 374 the glove manufacturer recommends to use the chemical protective glove in practice not longer than 50% of the recommended permeation time.

Manufacturer's directions for use should be observed because of great diversity of types .

Suitable gloves tested according EN 374 are supplied e.g. from KCL GmbH, D-36124 Eichenzell, Vertrieb@kcl.de

*Eye protection:*

Tightly fitting safety goggles



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*Skin and body protection:*  
Protective suit

### Environmental exposure controls

Handle in accordance with local environmental regulations and good industrial practices.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: liquid
Colour	: colourless
Odour	: characteristic
molecular weight	: 100,2 g/mol
Melting point/range	: -90,5 °C
Boiling point/boiling range	: 98,2 - 98,4 °C at 1.000 hPa
Flammability	: Not applicable
Upper explosion limit	: 6,7 %(V)
Lower explosion limit	: 1,1 %(V)
Flash point	: -4 °C
Auto-ignition temperature	: 204 °C
Decomposition temperature	: At normal pressure may be distilled without decomposition.
pH	: Not applicable
Auto-ignition temperature	: not auto-flammable
Viscosity, kinematic	: No data available
Water solubility	: 0,003 g/l

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		at 0 °C
Water solubility	:	0,0024 g/l at 25 °C
Water solubility	:	0,0025 g/l at 40 °C
Solubility in other solvents	:	soluble
Partition coefficient: n- octanol/water	:	log Pow 4,5
Vapour pressure	:	60,9 hPa at 25 °C
Density	:	0,69 g/cm <sup>3</sup> at 15 °C
Bulk density	:	Not applicable
Relative vapour density	:	No data available

### 9.2 Other Information

Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Evaporation rate	:	No data available
Viscosity, dynamic	:	No data available

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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No decomposition if stored and applied as directed.

### 10.2. Chemical stability

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At normal pressure may be distilled without decomposition.

### 10.3. Possibility of hazardous reactions

Vapours may form explosive mixture with air.

### 10.4. Conditions to avoid

Keep product and empty container away from heat and sources of ignition.  
Keep away from direct sunlight.

### 10.5. Incompatible materials

Strong oxidizing agents

### 10.6. Hazardous decomposition products

Carbon oxides

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

*Acute oral toxicity:*

Not classified due to data which are conclusive although insufficient for classification.

*Acute dermal toxicity:*

Not classified due to data which are conclusive although insufficient for classification.

*Acute inhalation toxicity:*

LC50

Species: Rat

Value: > 29,29 mg/l

Exposure time: 4 h

No deaths

*Skin irritation:*

Classification based on Annex VI of regulation 1272/2008/EC.

*Eye irritation:*

Not classified due to data which are conclusive although insufficient for classification.

*Respiratory or skin sensitisation:*

Maximisation Test

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Species: Guinea pig  
Result: Does not cause skin sensitisation.

*Aspiration hazard:*  
May be fatal if swallowed and enters airways.

### 11.2. Information on other hazards

Endocrine disrupting properties  
No data available

*Other information:*  
Solvent removes skin oil from the skin.  
Solvent vapours have a narcotic effect if inhaled in high concentrations.

## SECTION 12: Ecological information

### 12.1. Toxicity

*Toxicity to fish:*  
Classification based on Annex VI of regulation 1272/2008/EC.

*Toxicity to aquatic plants:*  
Classification based on Annex VI of regulation 1272/2008/EC.

*Toxicity to aquatic invertebrates:*  
Classification based on Annex VI of regulation 1272/2008/EC.

### 12.2. Persistence and degradability

No data available

### 12.3. Bioaccumulative potential

No data available

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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### 12.6. Endocrine disrupting properties

No data available

### 12.7. Other adverse effects

The product should not be allowed to enter drains, water courses or the soil.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

*Product:*

Dispose according to legal requirements.

*Packaging:*

Legal requirements are to be considered in regard of reuse or disposal of used packaging materials

*Further information:*

Provisions relating to waste:

EC Directive 2006/12/EC; 2008/98/EEC

Regulation No. 1013/2006

For personal protection see section 8.

## SECTION 14: Transport information

### 14.1 UN number

ADR/RID:1206

IMDG:1206

IATA:1206

### 14.2 UN proper shipping name

ADR/RID:HEPTANES

IMDG:HEPTANES

IATA:Heptanes

### 14.3 Transport hazard class(es)

ADR/RID: 3

IMDG: 3

IATA: 3

### 14.4 Packaging group

ADR/RID: II

IMDG: II

IATA: II

### 14.5 Environmental hazards

ADR/RID: yes

Marine pollutant: yes

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### 14.6 Special precautions for user

No data available

### 14.7 Maritime transport in bulk according to IMO instruments

No data available

## SECTION 15: Regulatory information

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

Basis	Value	Remarks
Directive 2012/18/EC Listed in Regulation : P5c: FLAMMABLE LIQUIDS Number in Regulation: 1.2.5.3	<b>Quantity:</b> 5.000.000 kg <b>Quantity:</b> 50.000.000 kg	
Directive 2012/18/EC Listed in Regulation : E1: Hazardous to the aquatic environment Number in Regulation: 1.3.1	<b>Quantity:</b> 100.000 kg <b>Quantity:</b> 200.000 kg	
Substances of very high concern (SVHC)		This product does not contain substances of very high concern according to Regulation (EC) No Article 57 above the respective regulatory 1907/2006 (REACH), concentration limit of $\geq 0.1$ % (w/w).

### Poison Control Center

Country	Phone Number
Austria	+4314064343
Belgium	070 245245
Bulgaria	(+)35929154233
Croatia	(+3851)23-48-342
Cyprus	+357 2240 5611
Czech Republic	+420224919293; +420224915402
Denmark	82121212

Country	Phone Number
Liechtenstein	+41 442515151
Lithuania	+370532362052
Luxembourg	070245245; (+352)80002-5500
Malta	+356 2395 2000
Netherlands	030-2748888
Norway	22591300
Poland	+48 42 25 38 400

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Estonia	16662; (+372)6269390
Finland	9471977
France	+33(0)145425959
Greece	+30 210 779 3777
Hungary	(+36-80)201-199
Iceland	5432222
Ireland	+353(1)8092166
Italy	0382 24444
Germany	Berlin : 030/19240
	Bonn : 0228/19240
	Erfurt : 0361/730730
	Freiburg : 0761/19240
	Göttingen : 0551/19240
	Homburg : 06841/19240
	Mainz : 06131/19240
Munich : 089/19240	
Latvia	+37167042473

Portugal	800250250
Romania	+40 21 318 3606
Slovakia (NTIC)	+421 2 54 774 166
Slovenia	+386 1 400 6051
Spain	+34915620420
Sweden	112 (begär Giftinformation); +46104566786
Switzerland	145
United Kingdom	(+44) 844 892 0111

### Other inventory information

US. Toxic Substances Control Act  
On TSCA Inventory

Australia. Inventory of Industrial Chemicals (AIIC), as amended  
On the inventory, or in compliance with the inventory

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)  
All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List  
On the inventory, or in compliance with the inventory

Korea. Existing Chemicals Inventory (KECI)  
On the inventory, or in compliance with the inventory

Philippines. Inventory of Chemicals and Chemical Substances (PICCS)

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On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances (IECSC)  
On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand  
On the inventory, or in compliance with the inventory

Taiwan Chemical Substance Inventory (TCSI)  
On the inventory, or in compliance with the inventory

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other information

### Text of H-statements referred to under heading 3

Heptane	:	H225	Highly flammable liquid and vapour.
		H304	May be fatal if swallowed and enters airways.
		H315	Causes skin irritation.
		H336	May cause drowsiness or dizziness.
		H400	Very toxic to aquatic life.
		H410	Very toxic to aquatic life with long lasting effects.

### Further information

All directives and regulations refer to amended versions.  
Vertical lines in the left hand margin indicate a relevant amendment from the previous version.

#### Abbreviations:

EC European Community  
CAS Chemical Abstracts Service  
DNEL Derived no effect level  
PNEC Predicted no effect level  
vPvB Very persistent and very bioaccumulative substance  
PBT Persistent, bioaccumulative und toxic substance



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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user.

This information should not constitute a guarantee for any specific product properties.

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