

32287-1L

Version 1.5

Revision Date 01.04.2020

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

1.1. Product identifier

Product name	:	Heptane	
SDS-number	:	00000020373	
Type of product	:	Substance	
Remarks	:	SDS according to Art. 31 of Re In accordance to the Article 14 (EC) No 1907/2006, exposure characterisation is not required	(1) of the REACh Regulation estimation and risk
Chemical name	:	Heptane	
Index-No.	:	601-008-00-2	
REACH Registration Number	:	: 01-2119457603-38	
1.2. Relevant identified us	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	r of	the safety data sheet	
Company	:	Honeywell Specialty Chemicals Seelze GmbH Wunstorfer Straße 40 30926 Seelze Germany	Honeywell International, Inc. 115 Tabor Road Morris Plains, NJ 07950-2546 USA
Telephone Telefax For further information, please contact:	whone : (49) 5137-999 0 ax : (49) 5137-999 123 urther information, : PMTEU Product Stewardship:		
1.4. Emergency telephone	e nu		
Emergency telephone	:	+1-703-527-3887 (ChemTrec-1	Fransport)
numbor		+1-303-380-1414 (Medical)	• •

number		+1-303-389-1414 (Medical)
Country based Poison	:	see chapter 15.1
		Page 1 / 15



32287-1L

Version 1.5

Revision Date 01.04.2020

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 H304	Highly flammable liquid and vapour. 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 sources. No smoking.
		P243	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
		Page 2 / 15	

Honeywell Riedel-de Haën™

Heptane

32287-1L

Version 1.5

Revision Date 01.04.2020

	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 01-2119457603-38 205-563-8	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 %	1*

1* - For specific concentration limits see Annexes of 1272/2008

3.2. Mixture

Not applicable

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



2

Heptane

32287-1L

Version 1.5

Revision Date 01.04.2020

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.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Foam Carbon dioxide (CO2) 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

Honeywell Riedel-de Haën[™]

Heptane

32287-1L

Version 1.5

Revision Date 01.04.2020

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.

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

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.

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.



Heptane

32287-1L

Version 1.5

Revision Date 01.04.2020

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

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/m3 500 ppm		Indicative
Heptane	EH40 WEL TWA	2.085 mg/m3 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/m3	Inhalation	
Heptane	Workers / Long-term systemic effects		300mg/kg bw/d	Skin contact	
Heptane	Consumers / Long-term		447 mg/m3	Inhalation	



Heptane

32287-1L

Version 1.5

Revision Date 01.04.2020

	systemic effects			
Heptane	Consumers / Long-term systemic effects	149mg/kg bw/d	Skin contact	
Heptane	Consumers / Long-term systemic effects	149mg/kg bw/d	Ingestion	

No PNEC 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 recomends to use the chemical protective glove in practice not longer than 50% of the recomended 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

Page 7 / 15



32287-1L

Version 1.5

Revision Date 01.04.2020

Eye protection: Tightly fitting safety goggles

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

Form	:	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
Flash point	:	-4 °C
Flammability (solid, gas)	:	Not applicable
Ignition temperature	:	204 °C
Auto-ignition temperature	:	not auto-flammable
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Lower explosion limit	:	1,1 %(V)
Upper explosion limit	:	6,7 %(V)
Vapour pressure	:	60,9 hPa at 25 °C
Density	:	0,69 g/cm3 at 15 °C



Heptane

32287-1L

Version 1.5

Revision Date 01.04.2020

Bulk density	:	Not applicable
Viscosity, dynamic	:	no data available
Viscosity, kinematic	:	no data available
рН	:	Not applicable
Water solubility	:	0,003 g/l 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
Relative vapour density	:	no data available
Evaporation rate	:	no data available
9.2 Other Information		

9.2 Other Information

no additional data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No decomposition if stored and applied as directed.

10.2. Chemical stability

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.

Page 9 / 15



32287-1L

Version 1.5

Revision Date 01.04.2020

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

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

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



Heptane

32287-1L

Version 1.5

Revision Date 01.04.2020

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.

12.6. 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.

Page 11 / 15



32287-1L

Version 1.5

Revision Date 01.04.2020

SECTION 14: Transport information

ADR/RID

		4000
UN Number	:	1206
Description of the goods	:	HEPTANES
Class	:	3
Packaging group	:	11
Classification Code		F1
Hazard Identification		33
Number	•	00
ADR/RID-Labels		3
	•	3
Environmentally hazardous	:	yes
ΙΑΤΑ		
UN Number	:	1206
Description of the goods	:	Heptanes
Class	:	3
Packaging group	:	11
Hazard Labels		3
	•	•
IMDG		
UN Number		1206
	:	
Description of the goods	•	HEPTANES
Class	:	3

: 11

: 3

: yes

: F-E, S-D

SECTION 15: Regulatory information

Packaging group

Hazard Labels

EmS Number

Marine pollutant

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	Amount 1: 5.000.000 kg Amount 2: 50.000.000 kg	

Basis	Value	Remarks
Directive 2012/18/EC Listed in Regulation : E1: Hazardous to the aquatic environment Number in Regulation: 1.3.1	Amount 1: 100.000 kg Amount 2: 200.000 kg	



Heptane

32287-1L

Version 1.5

Revision Date 01.04.2020

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	
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	
	Berlin : 030/19240	
	Bonn : 0228/19240	
	Erfurt : 0361/730730	
Germany	Freiburg : 0761/19240	
Connary	Göttingen : 0551/19240	
	Homburg : 06841/19240	
	Mainz : 06131/19240	
	Munich : 089/19240	
Latvia	+37167042473	

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
Portugal	808250143
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. Industrial Chemical (Notification and Assessment) Act

Page 13 / 15



Heptane

32287-1L

Version 1.5

Revision Date 01.04.2020

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. The Toxic Substances and Hazardous and Nuclear Waste Control Act 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

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

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 biaccumulative substance PBT Persistent, bioaccmulative und toxic substance

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.

Page 14 / 15



32287-1L

Version 1.5

Revision Date 01.04.2020

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