

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**Honeywell**

## 1-Hexanol

H13303-100ML

Version 2.1

Revision Date 30.04.2017

Supersedes 1

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

#### 1.1. Product identifier

Product name : 1-Hexanol

SDS-number : 000000020988

Type of product : Substance

Remarks : SDS according to Art. 31 of Regulation (EC) 1907/2006.

Chemical name : hexan-1-ol

Index-No. : 603-059-00-6

REACH Registration Number : 01-2119487967-12

#### 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 Specialty Chemicals Seelze GmbH Wunstorfer Straße 40 30926 Seelze Germany	Honeywell International, Inc. 115 Tabor Road Morris Plains, NJ 07950-2546 USA
Telephone	: (49) 5137-999 0	
Telefax	: (49) 5137-999 123	
For further information, please contact:	: PMTEU Product Stewardship: SafetyDataSheet@Honeywell.com	

#### 1.4. Emergency telephone number

Emergency telephone number : +1-703-527-3887 (ChemTrec-Transport)  
+1-303-389-1414 (Medical)

Country based Poison Control Center : see chapter 15.1

### SECTION 2: Hazards identification

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

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### REGULATION (EC) No 1272/2008

Flammable liquids Category 3  
H226 Flammable liquid and vapour.  
Acute toxicity Category 4 - Oral  
H302 Harmful if swallowed.  
Acute toxicity Category 4 - Dermal  
H312 Harmful in contact with skin.  
Eye irritation Category 2  
H319 Causes serious eye irritation.

### 2.2. Label elements

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

Hazard pictograms	:	 
Signal word	:	Warning
Hazard statements	:	H226 Flammable liquid and vapour. H302 + H312 Harmful if swallowed or in contact with skin H319 Causes serious eye irritation.
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. P280 Wear protective gloves/protective clothing/eye protection/face protection. P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308 + P313 IF exposed or concerned: Get medical advice/ attention.

### 2.3. Other hazards

Vapours may form explosive mixtures with air.

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

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Chemical name	CAS-No. Index-No. REACH Registration Number EC-No.	Classification 1272/2008	Concentration	Remarks
hexan-1-ol	111-27-3 603-059-00-6 01-2119487967-12 203-852-3	Flam. Liq. 3; H226 Acute Tox. 4; H302 Acute Tox. 4; H312 Eye Irrit. 2; H319	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.

#### *Inhalation:*

If breathed in, move person into fresh air. Get medical attention immediately.

#### *Skin contact:*

Wash off immediately with soap and plenty of water. Call a physician immediately.

#### *Eye contact:*

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

#### *Ingestion:*

Clean mouth with water and drink afterwards plenty of water. 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

no data available

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:*

Water mist  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

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

High volume water jet

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

Vapours may form explosive mixtures with air.

#### 5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

No unprotected exposed skin areas.

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Cool closed containers exposed to fire with water spray. Do not use a solid water stream as it may scatter and spread fire.

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### SECTION 6: Accidental release measures

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

Use personal protective equipment. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.

#### 6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Should not be released into the environment.

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

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Pick for disposal in tightly closed containers

#### 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

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*Advice on safe handling:*

Exhaust ventilation at the object is necessary.

*Advice on protection against fire and explosion:*

Take measures to prevent the build up of electrostatic charge. Keep away from sources of ignition - No smoking.

*Hygiene measures:*

General industrial hygiene practice.

*Temperature class:*

T3

*Fire-fighting class:*

Fires involving liquids or liquid containing substances. Also includes substances which become liquid at elevated temperatures.

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

*Requirements for storage areas and containers:*

Store in original container. Keep containers tightly closed in a cool, well-ventilated place.

### 7.3. Specific end use(s)

no additional data available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

#### DNEL/ PNEC-Values

Component	End-use / Impact	Exposure duration	Value	Exposure routes	Remarks
hexan-1-ol	Workers / Acute systemic effects		125mg/kg bw/d	Skin contact	
hexan-1-ol	Workers / Acute systemic effects		220 mg/m3	Inhalation	
hexan-1-ol	Consumers / Acute		75mg/kg bw/d	Ingestion	

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	systemic effects				
hexan-1-ol	Consumers / Long-term systemic effects		75mg/kg bw/d	Ingestion	
hexan-1-ol	Workers / Long-term systemic effects		125mg/kg bw/d	Skin contact	
hexan-1-ol	Workers / Long-term systemic effects		220 mg/m3	Inhalation	
hexan-1-ol	Consumers / Long-term systemic effects		75mg/kg bw/d	Skin contact	
hexan-1-ol	Consumers / Acute systemic effects		65 mg/m3	Inhalation	
hexan-1-ol	Consumers / Acute systemic effects		75mg/kg bw/d	Skin contact	
hexan-1-ol	Consumers / Acute systemic effects		65 mg/m3	Inhalation	

Component	Environmental compartment / Value	Remarks
hexan-1-ol	Fresh water: 2,6 mg/l	
hexan-1-ol	Marine water: 0,26 mg/l	
hexan-1-ol	Fresh water sediment: 5,08 mg/kg	
hexan-1-ol	Marine sediment: 0,5 mg/kg	
hexan-1-ol	Soil: 2,8 mg/kg	
hexan-1-ol	Sewage treatment plant: 63,2 mg/l	

### 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, safety

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shoes EN-ISO 20345.

Ensure that eyewash stations and safety showers are close to the workstation location.

Take off all contaminated clothing immediately.

Avoid contact with skin, eyes and clothing.

### Engineering measures

Use with local exhaust ventilation.

### Personal protective equipment

*Respiratory protection:*

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

Gloves must be inspected prior to use.

Replace when worn.

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:*

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

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molecular weight	:	102,18 g/mol
Melting point/range	:	ca. -52 °C
Boiling point/boiling range	:	ca. 155 °C
Flash point	:	59 °C Method: DIN 51758
Ignition temperature	:	313 °C at 1.013 hPa
Auto-ignition temperature	:	not auto-flammable
Lower explosion limit	:	1,1 %(V)
Upper explosion limit	:	11,8 %(V)
Vapour pressure	:	0,93 hPa at 20 °C
Vapour pressure	:	1,95 hPa at 30 °C
Vapour pressure	:	7,90 hPa at 50 °C
Density	:	ca. 0,8 g/cm <sup>3</sup> at 20 °C Method: DIN 51757
Viscosity, dynamic	:	ca. 3,64 mPa.s at 40 °C
pH	:	Not applicable
Water solubility	:	slightly soluble
Partition coefficient: n-octanol/water	:	log Pow 1,8

### 9.2 Other Information

no additional data available

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## SECTION 10: Stability and reactivity

### 10.1. Reactivity



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Stable under normal conditions.

### 10.2. Chemical stability

No decomposition if used as directed.

### 10.3. Possibility of hazardous reactions

None known.

### 10.4. Conditions to avoid

Protect from heat/overheating.

Protect against light.

### 10.5. Incompatible materials

Strong acids

Strong oxidizing agents

### 10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

*Acute oral toxicity:*

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

*Acute dermal toxicity:*

LD50

Species: Rabbit

Value: 1.500 - 2.000 mg/kg

Method: OECD Test Guideline 402

*Acute inhalation toxicity:*

LC50

Species: Rat

Value: > 21 mg/l

Exposure time: 1 h

*Skin irritation:*

Species: Rabbit

Result: non-irritant

Exposure time: 24 h

Method: OECD Test Guideline 404

*Eye irritation:*

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Species: Rabbit  
Result: irritating  
Method: OECD Test Guideline 405

*Respiratory or skin sensitisation:*

Species: Guinea pig  
Classification: non-sensitizing  
Method: in vivo assay

*Carcinogenicity:*

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

*Aspiration hazard:*

no data available

*Other information:*

no data available

## SECTION 12: Ecological information

### 12.1. Toxicity

*Toxicity to fish:*

LC50  
flow-through test  
Species: Pimephales promelas (fathead minnow)  
Value: 97,2 mg/l  
Exposure time: 96 h

*Toxicity to aquatic plants:*

EC50  
Growth rate  
static test  
Species: Pseudokirchneriella subcapitata (green algae)  
Value: 79,7 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

*Toxicity to Microorganisms:*

no data available

*Toxicity to aquatic invertebrates:*

EC50  
static test  
Species: Daphnia magna (Water flea)  
Value: 201 mg/l  
Exposure time: 24 h

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### 12.2. Persistence and degradability

*Biodegradability:*

aerobic

Biodegradation: 77 %

Exposure time: 28 d

Result: Readily biodegradable

Method: OECD Test Guideline 301B

### 12.3. Bioaccumulative potential

Bioaccumulation is unlikely.

### 12.4. Mobility in soil

no data available

### 12.5. Results of PBT and vPvB assessment

no data available

### 12.6. Other adverse effects

Do not flush into surface water or sanitary sewer system.

## 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

### ADR/RID

UN Number	:	2282
Description of the goods	:	HEXANOLS
Class	:	3
Packaging group	:	III
Classification Code	:	F1

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Hazard Identification : 30  
Number  
ADR/RID-Labels : 3  
Environmentally hazardous : no

### IATA

UN Number : 2282  
Description of the goods : Hexanols  
Class : 3  
Packaging group : III  
Hazard Labels : 3

### IMDG

UN Number : 2282  
Description of the goods : HEXANOLS  
Class : 3  
Packaging group : III  
Hazard Labels : 3  
EmS Number : F-E, S-D  
Marine pollutant : no

## SECTION 15: Regulatory information

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

#### Poison Control Center

Country	Phone Number
Austria	+4314064343
Belgium	070 245245
Bulgaria	(+35929154233
Croatia	(+3851)23-48-342
Cyprus	no data available
Czech Republic	+420224919293; +420224915402
Denmark	82121212
Estonia	16662; (+372)6269390
Finland	9471977
France	+33(0)145425959
Greece	no data available
Hungary	(+36-80)201-199
Iceland	5432222
Ireland	+353(1)8092166
Italy	no data available

Country	Phone Number
Latvia	+37167042473
Liechtenstein	no data available
Lithuania	+370532362052
Luxembourg	070245245; (+352)80002-5500
Malta	no data available
Netherlands	030-2748888
Norway	22591300
Poland	no data available
Portugal	808250143
Romania	no data available
Slovakia (NTIC)	+421 2 54 774 166
Slovenia	no data available
Spain	+34915620420
Sweden	112 (begär Giftinformation);+46104566786
United Kingdom	no data available

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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

### Other inventory information

US. Toxic Substances Control Act  
On TSCA Inventory

Australia. Industrial Chemical (Notification and Assessment) Act  
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

Japan. Industrial Safety & Health Law (ISHL) List  
On the inventory, or in compliance with the inventory

Korea. Toxic Chemical Control Law (TCCL) List  
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  
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.

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### SECTION 16: Other information

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

hexan-1-ol	:	H226	Flammable liquid and vapour.
		H302 + H312	Harmful if swallowed or in contact with skin
		H319	Causes serious eye irritation.

#### 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

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.

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