



Safety Data Sheet

acc. to OSHA HCS

Printing date 09/15/2016

Version 3

Reviewed on 03/22/2013

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

1.1 Product identifier

Product name : Hexanol
Product number : 928830
CAS-No. : 111-27-3
Index-No : 603-059-00-6
Synonyms: Hexyl alcohol

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)



GHS02 Flame

Flam. Liq. 3 H226 Flammable liquid and vapor.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Acute Tox. 4 H312 Harmful in contact with skin.

Eye Irrit. 2A H319 Causes serious eye irritation.

2.2 Label elements

GHS label elements

The substance is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



GHS02

GHS07

Signal word

Warning

Hazard statements

Flammable liquid and vapor.
Harmful if swallowed or in contact with skin.
Causes serious eye irritation.

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Product name : Hexanol**Precautionary statements**

Wear protective gloves/protective clothing/eye protection/face protection.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Classification system**NFPA ratings (scale 0 - 4)**

Health = 1

Fire = 2

Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = 1

Fire = 2

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: C₆H₁₄O
MW: 102.17
CAS-No. Description 111-27-3 Hexanol
Identification number(s)
EC number: 203-852-3
Index number: 603-059-00-6

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.

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For safety reasons unsuitable
extinguishing agents:

Water with full jet

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.
Do not allow to enter sewers/ surface or ground water.

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.

7 Handling and storage

7.1 Handling

Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

Information about protection
against explosions and fires

Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

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.

Storage Class (TRGS510):

Storage class 3: Flammable liquids

8 Exposure controls/personal protection

8.1 Control parameters

Components with limit values that require monitoring at the workplace

111-27-3 Hexanol

WEEL Long-term value: 40 ppm
eye irritation

Additional information:

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

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8.2 Exposure controls

Personal protective equipment

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.
Not required.

Breathing equipment:

Protection of hands:



Protective gloves

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.

Eye protection:



Tightly sealed goggles

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:	No data available
Odor threshold:	Not determined.
pH-value:	Not determined.

Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	156-157 °C (313-315 °F)

Flash point: 59 °C (138 °F)

Flammability (solid, gaseous): Not applicable.

Ignition temperature: 290 °C (554 °F)

Decomposition temperature: Not determined.

Auto igniting: Not determined.

Danger of explosion: Not determined.

Explosion limits

Lower: 1.3 Vol %

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Upper:	7.7 Vol %
Vapor pressure at 20 °C (68 °F):	0.93 hPa (1 mm Hg)
Density at 20 °C (68 °F):	0.814 g/cm ³ (6.793 lbs/gal)
Bulk density:	Not determined
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water at 20 °C (68 °F):	6 g/l
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Other information	no data available

10 Stability and reactivity

10.1 Reactivity	No data available
10.2 Chemical stability	Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions	No dangerous reactions known.
10.4 Conditions to avoid	Heat, flames and sparks.
10.5 Incompatible materials	Strong oxidizing agents, Strong acids
10.6 Hazardous decomposition products	Carbon oxides

11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD/LC50 values that are relevant for classification:

Oral LD50 720 mg/kg (rat)

Dermal LD50 3100 mg/kg (rabbit)

Primary irritant effect

on the eye: Irritating effect.

Carcinogenic categories

IARC (International Agency for Research on Cancer) Substance is not listed.

NTP (National Toxicology Program) Substance is not listed.

OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

11.2 Additional information RTECS: MQ4025000

12 Ecological information

12.1 Toxicity

Aquatic toxicity No data available

12.2 Persistence and degradability

No data available

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12.3 Behavior in environmental systems

Bioaccumulative potential : No data available

Mobility in soil : No data available

12.4 Additional ecological information

General notes: Water hazard class 1 (Assessment by list): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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 UN2282

14.2 UN proper shipping name

DOT Hexanols
ADR 2282 Hexanols
IMDG, IATA HEXANOLS

14.3 Transport hazard class(es)

DOT



Class 3 Flammable liquids

ADR, IMDG, IATA



Class 3 Flammable liquids

14.4 Packing group

DOT, ADR, IMDG, IATA III

14.5 Environmental hazards:

Marine pollutant: No

Special precautions for user Warning: Flammable liquids

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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: 60 L On cargo aircraft only: 220 L

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 2282 HEXANOLS, 3, III
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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.
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Section 313 (Specific toxic chemical listings):	Substance is not listed.
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TSCA (Toxic Substances Control Act):	Substance is listed.
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Proposition 65

Chemicals known to cause cancer:	Substance is not listed.
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Chemicals known to cause reproductive toxicity for females:	Substance is not listed.
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Chemicals known to cause reproductive toxicity for males:	Substance is not listed.
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Chemicals known to cause developmental toxicity:	Substance is not listed.
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Carcinogenic categories

EPA (Environmental Protection Agency)	Substance is not listed.
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TLV (Threshold Limit Value established by ACGIH)	Substance is not listed.
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NIOSH-Ca (National Institute for Occupational Safety and Health)	Substance is not listed.
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GHS label elements

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Product name : Hexanol**Hazard pictograms**

GHS02

GHS07

Signal word

Warning

Hazard statements

Flammable liquid and vapor.

Harmful if swallowed or in contact with skin.

Causes serious eye irritation.

Precautionary statements

Wear protective gloves/protective clothing/eye protection/face protection.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A