



Trade name: Hexyldecanol

Printing date: 2. Juni 2026

Current version: 4.2 created on: 02.06.2026

Replaced version: 4.1 created on: 09.01.2025

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

1.1. Produktidentifikator

Trade name

Hexyldecanol

Identification numbers

CAS number 2425-77-6

EC number 219-370-1

REACH-Registration number 01-2119487981-22

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

Application of the substance / the mixture

Initial product for chemical reactions

Plasticiser

Cosmetic auxiliary

Uses advised against

Not for domestic use.

Food, drink and animal feed.

1.3. Details of the supplier of the safety data sheet

Supplier:

SysKem Chemie GmbH

Rosenthalstrasse 22

D-42369 Wuppertal

phone +49 (0) 202-317559-0

Email info@syskem.de

Email address of the competent person responsible for the safety data sheet

info@syskem.de

1.4. Emergency telephone number

Vergiftungs-Informationen-Zentrale Freiburg, Tel. +49 761 19240.



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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

The substance is not classified, according to the CLP regulation.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Void

Hazard pictograms

Void

Signal word

Void

Hazard statements

Void

2.3. Other hazards

Results of PBT and vPvB assessment

The substance is not classified as PBT or vPvB.

Determination of endocrine-disrupting properties

The product does not contain substances with endocrine disrupting properties.

SECTION 3: Composition/information on ingredients

3.1. Stoffe

2-Hexyldecan-1-ol

CAS No.	Description
2425-77-6	2-Hexyldecanol

INCI:
HEXYLDECANOL

Identification number(s)

EC number: 219-370-1

SVHC

The product does not contain any substances of very high concern (SVHC).



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SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

No special measures required.

After inhalation:

Supply fresh air; consult doctor in case of complaints.

After skin contact:

Generally the product does not irritate the skin.
Wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.

After eye contact:

Rinse opened eye for several minutes under running water.
If symptoms persist, consult a doctor.

After swallowing:

Rinse out mouth and then drink plenty of water.
If symptoms persist consult doctor.

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

No further relevant information available.

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

No further relevant information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing agents:

CO₂, powder or water spray.
Fight larger fires with water spray or alcohol resistant foam.
Use fire extinguishing methods suitable to surrounding conditions.

For safety reasons unsuitable extinguishing agents:

Water with full jet

5.2. Special hazards arising from the substance or mixture

No further relevant information available.

5.3. Advice for firefighters

Protective equipment:

wear suitable protective clothing in dangerous zone

Additional information

Cool endangered receptacles with water spray.



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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Not required.

6.2. Environmental precautions

No special measures required.

6.3. Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

6.4. Reference to other sections

No dangerous substances are released.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

No special measures required.

Information about fire - and explosion protection:

No special measures required.

7.2. Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

Suitable material for receptacles and pipes: steel or stainless steel.

Information about storage in one common storage facility:

Not required.

Further information about storage conditions:

None.

Maximum storage temperature:

35°C

Storage class (Germany):

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7.3. Specific end use(s)

No further relevant information available.



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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace

Not required

Additional information:

The lists valid during the making were used as basis.

8.2. Exposure controls

Appropriate engineering controls

No further data; see item 7.

Individual protection measures, such as personal protective equipment

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

Hand protection

Protective gloves

Material of gloves:

Nitrile rubber

Penetration time of glove material

Glove material: Nitrile rubber

Layer thickness: 0.10 mm

Penetration time: > 480 min (Level 6)

For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:

Nitrile rubber (i.e. KCL 740 nitrile disposable gloves Dermatril®)

Eyeface protection

Safety glasses

Body protection:

Protective work clothing



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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form:	Liquid
Colour:	Colourless
Physical state	Liquid
Odour:	Odourless
Meltig point /Melting range	Not determined.
Boiling point or initial boiling point and boiling range	> 300 °C
Pour point	< -50 °C
Cloud point / clarification point:	< -30 °C
Flammability	not applicable
Lower and upper explosion limit	not determined
Flash point	160 °C
Ignition point	not determined
Decomposition temperature	not determined
Explosive properties	Product does not present an explosion hazard
Oxidising properties	Not oxidizing
pH	Mixture is non-soluble (in water).
Viscosity:	
Kinematic Viscosity:	40 °C: 16 - 24 mm2/s
Dynamic Viscosity:	20 °C: 40 mPas
Solubility(s)	
Water solubility	Not miscible or difficult to mix.

9.2. Other information

Important information on protection of health and environment, and on safety.

Partition coefficient n-octanol/water (log value)	6.8
Vapour pressure at 20 °C	< 0.01 hPa
Evaporation rate	Not determined

Information with regard to physical hazard classes

Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void



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SECTION 10: Stability and reactivity

10.1. Reactivity

No further relevant information available.

10.2. Chemical stability

No decomposition if used according to specifications.

10.3. Possibility of hazardous reactions

Reacts with strong acids and oxidising agents.

10.4. Conditions to avoid

No further relevant information available.

10.5. Incompatible materials

No further relevant information available.

10.6. Hazardous decomposition products

No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Based on available data, the classification criteria are not met.

Oral	LD50	> 39255 mg/kg (rat) (OECD 401) read across
Dermal	LD50	> 2000 mg/kg (rat) read across

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Irritation of skin	Acute dermal irritation / corrosion	(rabbit) (FDA-Hazardous Substances, Part. 191, section 11) not irritating
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Serious eye damage/irritation

Based on available data, the classification criteria are not met.

Irritation of eyes	Acute eye irritation / corrosion	(rabbit) (FDA-Hazardous Substances, Part. 191, section 12) not irritating
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Respiratory or skin sensitisation

Based on available data, the classification criteria are not met.

Sensitisation	Buehler-Test	(guinea pig) (OECD 406) not sensitising (read across)
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Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Genotoxicity - AMES-Test	(Salmonella Typhimurium) (OECD 471) negative
Genotoxicity - Mammalian Cell Gene Mutation Assay	(Chinese Hamster Ovary Cells) (OECD 476) negative (read across)
Genotoxicity - Chromosome aberration assay	(Lymphocytes) (OECD 473) negative (read across)

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

Oral	Developmental toxicity - NOAEL	2000 mg/kg (rabbit) (OECD 414) read across
	Reproductive toxicity - NOAEL	1000 mg/kg (rat) (OECD 415) read across

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Additional toxicological information:

Repeated dose toxicity

Oral	NOAEL	1000 mg/kg (rat) (OECD 408)
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CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction) not carcinogenic

The product is not known to have any carcinogenic, mutagenic or reproductive toxicity effects.

11.2 Information on other hazards

Endocrine disrupting properties

Substance is not listed.



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SECTION 12: Ecological information

12.1. Toxicity

Aquatic toxicity:

EC 50	> 100 mg/l (alga) (OECD 201) read across
LC 50	> 1,600 mg/l (daphnia) (OECD 202) > 10,000 mg/l (fish) (OECD 203)

12.2. Persistence and degradability

Readily biodegradable

Method OECD 301F

Analysing method: O₂-consumption

Degree of elimination: > 65 %

Classification: readily biodegradable

12.3. Bioaccumulative potential

No further relevant information available.

12.4. Mobility in soil

No further relevant information available.

12.5. Results of PBT and vPvB assessment

The substance is not classified as PBT or vPvB.

12.6. Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7. Other adverse effects

Additional ecological information:

General notes:

Not hazardous for water.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recommendation

On the basis of the necessary technical regulations and after consultation with the disposal agent and the relevant authorities, can be disposed of with domestic waste or incinerated with domestic waste. Smaller quantities can be disposed of with household waste.

European waste catalogue

07 06 08*	other still bottoms and reaction residues
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Uncleaned packaging:

Recommendation:

Disposal must be made according to official regulations.



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SECTION 14: Transport information

14.1. UN number or ID number

ADR/RID, ADN, IMDG, IATA Void.

14.2. UN proper shipping name

ADR/RID, ADN, IMDG, IATA Void.

14.3. Transport hazard class(es)

ADR/RID, ADN, IMDG, IATA Void.

14.4. Packing group

ADR/RID, ADN, IMDG, IATA Void.

14.5. Environmental hazards:

Not applicable.

14.6. Special precautions for user

Not applicable.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

Transport/Additional information:

Not dangerous according to the above specifications.

UN "Model Regulation":

Void



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SECTION 15: Regulatory information

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

Toxic Substances Control Act (TSCA): ACTIVE

Philippines Inventory of Chemicals and Chemical Substances (PICCS): Substance is listed.

Inventory of Existing Chemical Substances in China (IECSC): Substance is listed.

Australian Inventory of Industrial Chemicals (AIIC): All ingredients are listed.

Existing and New Chemical Substances (ENCS, Japan): 2-217

Korean Existing Chemical Inventory (KECI): KE-19912

Canadian Domestic Substances List (DSL): All ingredients are listed.

New Zealand Inventory of Chemicals (NZIoC): Substance is listed.

Taiwan Chemical Substance Inventory (TCSI): Substance is listed.

Labelling according to Regulation (EC) No 1272/2008 Void

Directive 2012/18/EU

Named dangerous substances - ANNEX I

Substance is not listed.

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

Substance is not listed.

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

Substance is not listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

Substance is not listed.

Regulation (EC) No 273/2004 on drug precursors

Substance is not listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

Substance is not listed.

Other regulations, limitations and prohibitive regulations

Substances of very high concern (SVHC) according to REACH, Article 57

The product does not contain any substances of very high concern (SVHC).

15.2. Chemical safety assessment

A Chemical Safety Assessment has been carried out.



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SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Data sources used to create the data sheet:

The data is based on information from upstream suppliers/producers.

Full text of H- and EUH-phrases listed in section 2 and 3

Not applicable.

Department issuing the data sheet:

SysKem Chemie GmbH
Product Safety Department
Telephone number +49 (0) 0202-317559-0

Training information:

No data available.

Reasons for changes:

Section 7
Section 8
Section 13
Editorial changes

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organisation
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
NOAEL: No observed adverse effect level
NOAEC: No observed adverse effect concentration
LOAEL: Lowest observed adverse effect level
LOAEC: Lowest observed adverse effect concentration
NOEL: No observed effect level
NOEC: No observed effect concentration
LOEC: Lowest observed effect concentration
BCF: Bio concentration factor
EC50: Effect concentration, 50 percent