SAFETY DATA SHEET

Trade name: Oleylcetyl alcohol 90-95 | Print Date: 24. June 2019

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Region: EN

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

1.1. Product identifier

Trade name	Oleylcetyl alcohol 90-95
REACH Registration Number	01-2119489408-24
Substance name	(Z)-Octadec-9-enol
CAS-No.	143-28-2
EC-No.	205-597-3

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
Intermediate
Surface active agent
Cosmetic auxiliary
Cosmetic Active Agent
Metal working fluid
Lubricant
Additive for cosmetic or pharmaceutic preparations
Plasticiser

Uses advised against
No further relevant information available.

1.3. Details of the supplier of the safety data sheet

Company
SysKem Chemie GmbH
Brucknerweg 26
D-42289 Wuppertal

Telephone	+49 (0) 202/30999510
Telefax	+49 (0) 202/87088403
E-mail address	info@syskem.de

Prepared by / E-mail address of person responsible for the SDS
info@syskem.de

1.4. Emergency telephone number

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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.

SECTION 3: Composition/information on ingredients

3.1. Substances

Oleyl alcohol ((Z)-Octadec-9-enol)

CAS No.	**Description**
143-28-2	(Z)-Octadec-9-enol

INCI: OLEYL ALCOHOL

Identification number(s)
EC number: 205-597-3

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

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: If symptoms persist consult doctor.
If on skin, rinse well with water.
If on clothes, remove clothes.

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

CO 2 , 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

p**rotective equipment**
Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Not required

6.2. Environmental precautions

Do not allow product to reach sewage system or any water course.

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.

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: Stainless steel.
Store only in the original receptacle.

Information about storage in one common storage facility:
Not required.

Further information about storage conditions:
When storing in tanks, cover with layer of nitrogen-protective gas.
If the product becomes solid or flocculates during storage below the solidification range, it should be heated slowly to 40-45 ° C and homogenised. Before using the product, complete homogenisation must be ensured.

Maximum storage temperature:
50°C

Minimum storage temperature:
For tank storage of liquid product: 25 °C

Storage class
10

7.3. Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:
Not required.

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Oral	DNEL	55 mg/kg bw/d (general population)
Dermal	DNEL	55 mg/kg bw/d (general population) 110 mg/kg bw/d (worker)
Inhalative	DNEL	96 mg/m3 (general population) 220 mg/m3 (worker)

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

PNEC – Sediment	89 mg/kg dw (freshwater) 8.9 mg/kg dw (marinewater)
PNEC – soil	17.7 mg/kg dw (-)
PNEC - Sewage treatment plant	1 mg/l (-)

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
Not required.

Hand protection
Protective gloves

Material of gloves:
Nitrile rubber

Penetration time of glove material
Glove material: Nitrile rubber
Layer thickness: 0.40 mm
Penetration time: > 480 min (Level 6)
Glove material: Nitrile rubber
Layer thickness: 0.10 mm
Penetration time: ≥ 30 min and < 60 min (Level 2)

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 730-Nitrile glove Camatril®)

As protection from splashes gloves made of the following materials are suitable:
Nitrile rubber (i.e. KCL 740 nitrile disposable gloves Dermatril®)

Eye/face protection
Safety glasses

Body protection:
Protective work clothing

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:

Form:	Liquid
Colour:	Colourless
Physical state	Liquid
Odour:	Specific type
Odour threshold:	Not determined.

Change in condition

Meltig point /Melting range:	2 – 12 °C
Boiling point or initial boiling point and boiling range	333 °C
Setting temperature / range:	2 - 12 °C
Density at 20 °C:	0.83 – 0.84 g/cm3
Relative density:	Not determined.
Vapour density	Not determined.
Flash point:	> 100 °C
Flammability	Not applicable.
Ignition temperature:	> 270 °C
Decomposition temperature:	Not determined.

Auto-ignition temperature:	Not determined.
Explosive properties:	Product does not present an explosion hazard.
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Oxidising properties	Not oxidizing.
pH	Mixture is non-soluble (in water).
Viscosity:	
Dynamic:	Not determined.
Kinematic:	100 °C: 3.4 - 4 mm2/s
Surface tension:	65 mN/m
Solubility	
Water at 20 °C:	0.00004 g/l

9.2 Other information

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

Partition coefficient n-octanol/water (log value)	7.07
Vapour pressure at 20 °C:	0.0002 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

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 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

Oral	LD50	> 5,000 mg/kg (rat)
Dermal	LD50	> 2,000 mg/kg (rat)
Inhalative	LD50 LC50	> 0.02 ppm (rat) (calculated based on saturated vapours) > 0.375 mg/l (rat) (calculated based on saturated vapours) read across Tetradecanol

Skin corrosion/irritation

Irritation of skin	Acute dermal irritation / corrosion	(rabbit) not irritating

Serious eye damage/irritation

Irritation of eyes	Acute eye irritation / corrosion	(rabbit) not irritating

Respiratory or skin sensitisation

Sensitisation	Skin sensitisation test	(rabbit) not sensitising

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

Germ cell mutagenicity

Genotoxicity - AMES-Test	(Salmonella Typhymurium) (OECD 471) negativ
Genotoxicity - Mammalian Cell Gene Mutation Assay	(Chinese hamster lung fibroblasts) (OECD 476) negativ (read across)
Genotoxicity - Micronucleus assay	(mouse) (OECD 474) negative (read across)
Genotoxicity - Chromosome aberration assay	(Chinese hamster lung fibroblasts) (OECD 473) negative (read across)

Reproductive toxicity

Oral	Developmental toxicity - NOAEL	2,000 mg/kg (rat) (OECD 422) read across
	Reproductive toxicity - NOAEL	1,000 mg/kg (rat)

Specific target organ toxicity (single exposure)
Based on available data, the classification criteria are not met.

Specific target organ toxicity in case of 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	> 1,000 mg/kg (rat) (OECD 407) read across

11.2 Information on other hazards

Endocrine disrupting properties
Substance is not listed.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:
No toxic effects were observed below the water solubility.

EC50	250 mg/l (algea) 70 mg/l (daphnia) (92/69/ECC)
LC50 (static)	> 10,000 mg/l (fish) (OECD 203)
Long term toxicity - LOEC	2.94 mg/l (daphnia)

2.2 Persistence and degradability

Easily biodegradable	
Method	OECD 301B
Analysing method	CO 2 -Evolution
Degree of elimination	87 %
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
Ecotoxical effect

Terrestric toxicity – LC50	> 1,500 mg/kg dw (earth worm) read across Tetradecanol
Sediment toxicity - LC50	> 3,800 mg/kg dw (ostracods) read across Tetradecanol

Bacteria inhibition EC 20 (mg/l according to ISO 8192 B):

EC20	> 10,000 mg/l (bacteria)

Additional ecological information:
General notes:
Water hazard class: Generally 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.

Uncleaned packaging:
Recommendation
Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

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 Indusrial Chemicals (AIIC): All ingredients are listed.
Existing and New Chemical Substances (ENCS, Japan): 2-258
Korean Existing Chemical Inventory (KECI): KE-26527
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
Hazard pictograms Void
Signal word Void
Hazard statements 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.

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).

Other regulations:
Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

15.2 Chemical safety assessment:

A Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Full text of abbreviated H statements
Not applicable.

Full text of classifications
Not applicable.

Indication of changes
Alignment with Regulation: Regulation (EC) No 1907/2006 (REACH) as amended by 2020/878/EU.
Complete revision.

Key literature references and sources for data:
Chemical Safety Report

Training advice for workers
Not applicable.

Further 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.

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)
ICAO: International Civil Aviation Organisation
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)
ISO: International Organisation for Standardisation
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
NOAEL: No observed advers effect level
NOAEC: No observed advers effect concentration
LOAEL: Lowest observed advers effect level
LOAEC: Lowest observed advers 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