

MATERIAL SAFETY DATA SHEET

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

1.1 Product identifier

Identification of the substance	Cetyl alcohol
Article number	5762
CAS number	36653-82-4
Alternative name(s)	Hexadecan-1-ol

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

Relevant identified uses:	Laboratory chemical Laboratory and analytical use
Uses advised against:	Do not use for private purposes (household). Food, drink and animal feedingstuffs.

1.3 Details of the supplier of the safety data sheet

Supplier: Elchemy

Company Address: A-448, Pocket 2, Sector 8, Rohini, New Delhi, Pin Code: 110085, India

Company Web Site: www.elchemy.com

Email Id: info@elchemy.com

1.4 Emergency telephone number

Emergency Phone Number: +919867099519 (24 Hrs)

Name	Street	Postal code/city	Telephone	Website
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NSW Poisons Information Centre Childrens Hospital	Hawkesbury Road	2145 West- mead, NSW	131126
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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification acc. to GHS

This substance does not meet the criteria for classification.

2.2 Label elements

Labelling not required

2.3 Other hazards

Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of 0,1%.

SECTION 3: Composition/information on ingredients

3.1 Substances

Name of substance	Cetyl alcohol
Molecular formula	C ₁₆ H ₃₄ O
Molar mass	242.4 %/m
CAS No	36653-82-4



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SECTION 4: First aid measures

4.1 Description of first aid measures

- **General notes:** Take off contaminated clothing.
- **Following inhalation:** Provide fresh air.
- **Following skin contact:** Rinse skin with water/shower.
- **Following eye contact:** Rinse cautiously with water for several minutes.
- **Following ingestion:** Rinse mouth. Call a doctor if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

None

SECTION 5: Firefighting Measures

5.1 Extinguishing Media

Suitable extinguishing media

- Co-ordinate firefighting measures to the fire surroundings!
- Water, foam, dry extinguishing powder, ABC-powder

Unsuitable extinguishing media

- Water jet

5.2 Special Hazards Arising from the Substance or Mixture

Combustible. Vapours are heavier than air, spread along floors and form explosive mixtures with air.

Hazardous combustion products

In case of fire may be liberated: Carbon monoxide (CO), Carbon dioxide (CO₂)



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5.3 Advice for Firefighters

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

SECTION 6: Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

For non-emergency personnel

- Control of dust.

6.2 Environmental Precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and Material for Containment and Cleaning Up

Advice on how to contain a spill

- Covering of drains. Take up mechanically.

Advice on how to clean up a spill

- Take up mechanically.

Other information relating to spills and releases

- Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to Other Sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.



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SECTION 7: Handling and Storage

7.1 Precautions for Safe Handling

Provision of sufficient ventilation.

Advice on general occupational hygiene

- Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for Safe Storage, Including Any Incompatibilities

Store in a dry place.

Incompatible substances or mixtures

- Observe hints for combined storage.

Consideration of other advice:

- Ventilation requirements: Use local and general ventilation.
- Specific designs for storage rooms or vessels: Recommended storage temperature: 15 - 25 °C

7.3 Specific End Use(s)

No information available.

SECTION 8: Exposure Controls/Personal Protection

8.1 Control Parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Identifier	TWA [mg/m ³]	STEL [mg/m ³]	Ceiling-C [mg/m ³]	Notation	Source
AU	nuisance dusts	WES	10	i	WES			



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Notation

- Ceiling-C: Ceiling value is a limit value above which exposure should not occur
- i: Inhalable fraction
- STEL: Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)
- TWA: Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

Human health values

Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
DNEL	389 mg/m ³	human, inhalatory	worker (industry)	chronic systemic effects
DNEL	200 mg/m ³	human, inhalatory	worker (industry)	chronic local effects
DNEL	110 mg/kg bw/day	human, dermal	worker (industry)	chronic systemic effects

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Environmental Values

Relevant PNECs and other threshold levels				
End-point	Threshold level	Organism	Environmental compartment	Exposure time
PNEC	0.002 mg/	aquatic organisms	freshwater	short-term (single instance)
PNEC	0 mg/	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
PNEC	0 mg	aquatic organisms	marine water	short-term (single instance)
PNEC	0.48 mg kg	aquatic organisms	marine sediment	short-term (single instance)



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PNEC	4.8 mg kg	aquatic organisms	freshwater sediment	short-term (single instance)
PNEC	5.8 mg kg	terrestrial organisms	soil	short-term (single instance)

8.2 Exposure Controls

Individual Protection Measures (Personal Protective Equipment)

Eye/Face Protection

Use safety goggles with side protection.

Skin Protection

- **Hand protection:** Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374.
- **Type of material:** NBR (Nitrile rubber)
- **Material thickness:** >0.11 mm
- **Breakthrough times of the glove material:** >480 minutes (permeation: level 6)
- **Other protection measures:** Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

Respiratory Protection

Respiratory protection necessary at: Dust formation. Particulate filter device (EN 143). P1 (filters at least 80% of airborne particles, colour code: White).

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Environmental Exposure Controls

Keep away from drains, surface and ground water.



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SECTION 9: Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Physical state	solid
Form	waxy
Colour	colourless
Odour	characteristic
Melting point/freezing point	51 °C at 101.3 kPa (ECHA)
Boiling point or initial boiling point and boiling range	319 °C at 101.3 kPa (ECHA)
Flammability	this material is combustible, but will not ignite readily
Lower and upper explosion limit	not determined
Flash point	149 °C at 101.3 kPa (ECHA)
Auto-ignition temperature	272 °C at 1 atm (ECHA) (relative self-ignition temperature for solids)
Decomposition temperature	not relevant
pH (value)	not applicable
Kinematic viscosity	3.394 mm ² /s at 100 °C not relevant
Dynamic viscosity	6 - 10 mPas at 60 °C
Solubility(ies)	
Water solubility	<1 mg/ at 23 °C (ECHA)
Partition coefficient	
Partition coefficient n-octanol/water (log value):	6.7 (ECHA)
Soil organic carbon/water (log KOC)	4.12 (ECHA)
Vapour pressure	0.003 mbar at 38 °C
Density and/or relative density	
Density	0.889 g/cm ³ at 16 °C (ECHA)
Relative vapour density	8.36 (air=1)



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Bulk density	410 - 450 kg/m ³
Particle characteristics	No data available.

Other Safety Parameters

Oxidising properties: none

Other Information

9.2 Information with regard to physical hazard hazard classes acc. to GHS

Classes (physical hazards): not relevant

Other safety characteristics: Surface tension 66.53 mn/m (25 °C) (ECHA)

SECTION 10: Stability and Reactivity

10.1 Reactivity

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

10.2 Chemical Stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of Hazardous Reactions

Violent reaction with: strong oxidiser

10.4 Conditions to Avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible Materials

There is no additional information.



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10.6 Hazardous Decomposition Products

Hazardous combustion products: see section 5.

SECTION 11: Toxicological Information

11.1 Information on Toxicological Effects

Classification acc. to GHS: This substance does not meet the criteria for classification.

Acute toxicity: Shall not be classified as acutely toxic. GHS of the United Nations, annex 4. May be harmful if swallowed or if inhaled.

Acute toxicity					
Exposure route	Endpoint	Value	Species	Method	Source
oral	LD50	>2,000 mg/kg	rat	ECHA	
inhalation: dust/ mist	LC50	>21 mg///h	rat	ECHA	
dermal	LD50	8,000 mg/kg	rabbit	ECHA	

Skin corrosion/irritation: Shall not be classified as corrosive/irritant to skin.

Cetyl alcohol 95% for synthesis

Article number: 5762

Serious eye damage/eye irritation: Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation: Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity: Shall not be classified as germ cell mutagenic.

Carcinogenicity: Shall not be classified as carcinogenic.

Reproductive toxicity: Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure: Shall not be classified as a specific target organ toxicant (single exposure).



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Specific target organ toxicity - repeated exposure: Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard: Shall not be classified as presenting an aspiration hazard.

Symptoms related to the physical, chemical and toxicological characteristics

- If swallowed: Data are not available.
- If in eyes: Data are not available.
- If inhaled: Data are not available.
- If on skin: Data are not available.

Other information: none

11.2 Endocrine Disrupting Properties

Does not contain an endocrine disruptor (ED) at a concentration of 0.1%.

SECTION 12: Ecological Information

12.1 Toxicity

Very toxic to aquatic life with long lasting effects.

Aquatic toxicity (acute)				
Endpoint	Value	Species	Source	Exposure time
LC50	>500 mg/l	fish	ECHA	96 h
EC50	1,700 mg/l	aquatic invertebrates	ECHA	48 h

12.2 Persistence and Degradability

Theoretical Oxygen Demand: 3.168 mg/mc mg

Theoretical Carbon Dioxide: 2.904 mg/mg

Process of Degradability		
Process	Degradation rate	Time
Carbon dioxide generation	82.4%	28 d



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Oxygen depletion	87%	28 d
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12.3 Bioaccumulative Potential

Does not significantly accumulate in organisms.

n-octanol/water (log KOW)	6.7 (ECHA)
BCF	26 (ECHA)

12.4 Mobility in Soil

The Organic Carbon normalised adsorption coefficient: 4.12 (ECHA)

12.5 Results of PBT and vPvB Assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

12.6 Endocrine Disrupting Properties

Does not contain an endocrine disruptor (ED) at a concentration of 0.1%.

12.7 Other Adverse Effects

Data are not available.

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SECTION 13: Disposal Considerations

13.1 Waste Treatment Methods

- Consult the appropriate local waste disposal expert about waste disposal.
- Sewage disposal-relevant information: Do not empty into drains.
- Waste treatment of containers/packagings: Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.



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13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions. Non-contaminated packages may be recycled.

SECTION 14: Transport Information

14.1	UN Number	Not subject to transport regulations
14.2	UN Proper Shipping Name	Not assigned
14.3	Transport Hazard Class(es)	Not assigned
14.4	Packing Group	Not assigned
14.5	Environmental Hazards	Non-environmentally hazardous acc. to the dangerous goods regulations

14.6 Special Precautions for User

There is no additional information.

14.7 Transport in Bulk According to IMO Instruments

The cargo is not intended to be carried in bulk.

14.8 Information for Each of the UN Model Regulations

Transport information National regulations Additional information (l RTDG): Not subject to transport regulations. UN RTDG

International Maritime Dangerous Goods Code (IMDG) - Additional information: Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information: Not subject to ICAO-IATA.



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SECTION 15: Regulatory Information

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

There is no additional information.

National regulations (Australia)

Australian Inventory of Chemical Substances (AICS)

Substance is listed.

Other information

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

National Inventories

Country	Inventory	Status
AU	AIIC	Substance is listed
CA	DSL	Substance is listed
CN	IECSC	Substance is listed
EU	ECSI	Substance is listed
EU	REACH Reg.	Substance is listed
JP	CSCL-ENCS	Substance is listed
KR	KECI	Substance is listed
MX	INSQ	Substance is listed
NZ	NZIoC	Substance is listed
PH	PICCS	Substance is listed
TR	CICR	Substance is listed
TW	TCSI	Substance is listed
US	TSCA	Substance is listed (ACTIVE)



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VN	NCI	Substance is listed
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Legend

- AIIC: Australian Inventory of Industrial Chemicals
- CICR: Chemical Inventory and Control Regulation
- CSCL-ENCS: List of Existing and New Chemical Substances (CSCL-ENCS)
- DSL: Domestic Substances List (DSL)
- ECSI: EC Substance Inventory (EINECS, ELINCS, NLP)
- IECSC: Inventory of Existing Chemical Substances Produced or Imported in China
- INSQ: National Inventory of Chemical Substances
- KECI: Korea Existing Chemicals Inventory
- NCI: National Chemical Inventory
- NZIoC: New Zealand Inventory of Chemicals
- PICCS: Philippine Inventory of Chemicals and Chemical Substances (PICCS)
- REACH Reg.: REACH registered substances
- TCSI: Taiwan Chemical Substance Inventory
- TSCA: Toxic Substance Control Act

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance.

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SECTION 16: Other Information

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
2.3	Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of 0.1%.	Yes	
15.1	National inventories: change in the listing (table)	Yes	



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Abbreviations and Acronyms

Abbr.	Descriptions of used abbreviations
BCF	Bioconcentration factor
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50%. The EC50 corresponds to the concentration of a tested substance causing 50% changes in response (e.g., on growth) during a specified time interval
ED	Endocrine disruptor
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
ErC50	III EC50: in this method, that concentration of test substance which results in a 50% reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50% lethality during a specified time interval
LD50	Lethal Dose 50%: the LD50 corresponds to the dose of a tested substance causing 50% lethality during a specified time interval
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration



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CIN: U24290DL2021PTC382855 | **GST: 07AAJCB9425C1ZR**
IEC: AAJCB9425C

STEL	Short-term exposure limit
TWA	Time-weighted average
UN RTDG	UN Recommendations on the Transport of Dangerous Goods
vPvB	Very Persistent and very Bioaccumulative

Abbr.	Descriptions of used abbreviations
WES	Safe Work Australia: Workplace exposure standards for airborne contaminants

Key Literature References and Sources for Data

- Safe Work Australia's Code of Practice for Labelling of Workplace Hazardous Chemicals (under WHS Regulations).
- UN Recommendations on the Transport of Dangerous Goods.
- International Maritime Dangerous Goods Code (IMDG).
- Dangerous Goods Regulations (DGR) for the air transport (IATA).

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.



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