

1. Identification

Trade name: Cetyl Alcohol CAS Number: 36653-82-4 EC number: 253-149-0 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. **Application of the substance / the mixture** *Synthetic intermediate *Coatings *Metalworking fluids/rolling oils *Mining/offshore - Mining chemicals *Process chemical e.g. in Paper and Textiles industries *Personal care *Use in cleaning agents *Other consumer uses (pharmaceuticals and personal care) *Plaster/cement - Use as binders and release agents / Road and construction applications *Plastic/rubber - Polymer processing Details of the supplier of the safety data sheet

Distributor: Chemistry Connection 253 Sturgis Road Conway, AR 72034 (501) 470-9689 www.chemistryconnection.com contact@thechemistryconnection.com

Emergency telephone number

During business hours (8am - 5pm Mon-Fri) 888-583-7738

Emergency telephone number After business hours CHEMTREC 800-424-9300

Other Comments (e.g. language(s) of the phone service): English

2. Hazard(s) identification

Classification of the substance or mixture

The substance is not classified according to the Globally Harmonized System (GHS).

Classification according to Directive 67/548/EEC or Directive 1999/45/EC Not applicable. **Information concerning particular hazards for human and environment:** Not applicable.

Label elements

Labelling according to EU guidelines: Observe the general safety regulations when handling chemicals.

Safety phrases: Not applicable Classification system: NFPA ratings (scale 0 - 4)

> Health = 0 Fire = 0 Reactivity = 0



HMIS-ratings (scale 0 - 4)

HEALTH	0	Health = 0
FIRE	0	Fire = 0
REACTIVITY	0	Reactivity $= 0$

Other hazards

Results of PBT and vPvB assessment PBT: Not a PBT substance. **vPvB:** Not a vPvB substance.

3 Composition/information on ingredients

- · Chemical characterization: Substances
- CAS No. Description 36653-82-4 (Hexadecan-1-ol) • Identification number(s)
- EC number 252 140 0
- EC number: 253-149-0
- Additonal information:
- Molecular Formula : C16H34O Molecular Weight : 242.45 g/mol
- Impurities and stabilising additives: Maximum impurity:5% (Ginol 16 (95 %))

4 First-aid measures

- · Description of first aid measures
- · General information:

If you feel unwell, seek medical advice (show the label where possible). Take off all contaminated clothing immediately.

· After inhalation:

Remove from exposure, lie down. If breathing is irregular or stopped, administer artificial respiration. Monitor breathing, give oxygen if necessary. Consult a physician

- · After skin contact: Wash off with plenty of soap and water
- After eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- · After swallowing:
- Wash the affected person's mouth with plenty of water, provided he is conscious. Call a doctor.
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- Information for doctor: Treat symptomatically and supportively.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Water spray, Dry powder, Foam, Carbon dioxide (CO2)
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- Wear breathing apparatus and fully protective clothing to prevent contact with skin and eyes.
- Protective equipment:

Use personal protective equipment. Wear self contained breathing apparatus for fire fighting if necessary • Additional information

Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings remove movable containers if safe to do so.



6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves
- Environmental precautions: Do not allow product into drain or water course Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system.
 Methods and material for containment and cleaning up: Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
- 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

- · Precautions for safe handling
- Handle in accordance with good hygiene and safety procedures.
- Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves.
- Do not breathe dust, and avoid contact with eyes, skin and clothing.
- Avoid prolonged or repeated exposure and wash thoroughly after handling.
- · Information about protection against explosions and fires: Protect from sources of heat, ignition and flame
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles:
- Keep container closed and store in a cool, dry place. Suitable storage material: SS tank / Laquor-lined MS drums / HDPE-laminated bags with liners
- Information about storage in one common storage facility: Keep container closed and store in a cool, dry place.
- · Further information about storage conditions:
- Suitable storage material: SS tank / Laquor-lined MS drums / HDPE-laminated bags with liners
- · Specific end use(s)
- *Synthetic intermediate
- *Coatings
- *Metalworking fluids/rolling oils
- *Mining/offshore Mining chemicals
- *Process chemical e.g. in Paper and Textiles industries
- *Personal care
- *Use in cleaning agents
- *Other consumer uses (pharmaceuticals and personal care)
- *Plaster/cement Use as binders and release agents / Road and construction applications
- *Plastic/rubber Polymer processing
- *Agrochemicals

8 Exposure controls/personal protection

- · Control parameters
- · Components with limit values that require monitoring at the workplace: Not required.



· Ingredients with biological limit v	aiut5.			
36653-82-4 hexadecan-1-ol				
Exposure controls				
Personal protective equipment:				
General protective and hygienic m				
Observe the usual precautions for ha	ndling chemicals.			
Do not eat or drink while working.				
Do not store food in the working are	a.			
Store protective clothing separately.				
Wash hands before breaks and at the	e end of work.			
Breathing equipment:	. ,			
 Use NIOSH- / MSHA-approved respirator. In an emergency respiratory protection must be worn. Consider the maximum period for wear. Resp protection: Particle filter P2 or P3, colour code white Protection of hands: 				
				apple and register to the meduat/the substance/the memory
				heable and resistant to the product/ the substance/ the preparation.
chemical mixture.	ation to the glove material can be given for the product/ the preparation/th			
	consideration of the nenetration times rates of diffusion and the			
 Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Skin protection cremes do not protect as effectively against the substance as protective gloves. Therefore suitable protective gloves should be preferred as far as possible. Material of gloves Polychloroprene - CR (0,5 mm) 				
		Nitrile rubber/Nitrile latev - NRP (0	35 mm)	
		Nitrile rubber/Nitrile latex - NBR (0,35 mm) Butyl rubber - Butyl (0,5 mm) Eluoro carbon rubber - EKM (0.4 mm)		
				Fluoro carbon rubber - FKM (0.4 m
		Fluoro carbon rubber - FKM (0,4 m Polyvinyl chloride - PVC (0,5 mm)	m)	
Polyvinyl chloride - PVC (0,5 mm)				
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Upper:	8 Vol %	
Vapor pressure at 38 °C (100 °F):	0.0021 mmHg hPa (0 mmHg mm Hg)	
Density at 60 °C (140 °F):	0.81	
Vapour density	Not applicable.	
Solubility in / Miscibility with		
Water at 23 °C (73 °F):	<1 mg/l	
Partition coefficient (n-octanol/water): 6.7 log POW		
Viscosity:		
Dynamic at 100 °C (212 °F):	3.394 mm ² /s	
Other information	No further relevant information available.	

10 Stability and reactivity

- · Reactivity
- Chemical stability Product is chemically stable.
- Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid
- Avoid contact with incompatible materials.
- Avoid formation of dust.
- · Incompatible materials: Strong acids and oxidising agents
- · Hazardous decomposition products: Carbon monoxide and carbon dioxide
- Additional information: Thermal decomposition: > 350 °C

Information on toxicological effects Acute toxicity: LD/LC50 values that are relevant for classification:		
Dermal	LD50	8000mg/kg (24 hours occluded) (rabbit)
Primary	y irrita	nt effect:
on the s	kin:	
Skin irri	tation t	o rabbit
		:Rabbit/New Zealand White
Type of	covera	ge:semiocclusive
	n param	eter:primary dermal irritation index (PDII)
Score:0		
AVERA		
- Erythe	ma: Er	ythema (grade 1) observed at 1 hour after removal of dressings. All scores at other time point
0.		
		bedema observed.
	1	lucr is non-irritating to rabbit skin
on the e		
Eye irrit		
	1	s:New Zealand White rabbit
		atment / exposure :72 hours
		eter:cornea score
Basis:an		
		n: 24,48,72h
Score:0.	-	
		eter: Iridial inflammation
Basis:an		0.4.40.501
Time po	int :me	an 24,48,72h



	Score :0					
	Result:Non irritating to eye ograbbit					
		Not sensitising				
	· Other information (about experimental toxicology):					
		CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)				
		Reproduction toxicity; Species/Strain:dog/Beagle				
	Species/Strain					
	Route:Oral					
	NOAEL:>105	54 mg/kg bw/day				
	Species/Strain	Species/Strain:Albino rat/male/female				
	NOAEL(male)):1822 mg/kg bw/day				
	NOAEL(female):4567 mg/kg bw/day					
	Species/Strain:Sprague-Dawley rat male/female					
	Route:Oral					
	NOAEL(male/	/female):1000 mg/kg bw/day				
	• Additional toxicological information: When used and handled according to specifications, the product does not have any harmful effects according					
	to our experience and the information provided to us.					
		The substance is not subject to classification.				
	· Carcinogenic					
		ational Agency for Research on Cancer) Substance is not listed.				
		Il Toxicology Program) Substance is not listed.				
	· OSHA-Ca (O	ccupational Safety & Health Administration) Substance is not listed.				
_						
	10 0 1 1 1					
	12 Ecological i	information				
	· Toxicity					
	· Aquatic toxic					
	-	· · · · · · · · · · · · · · · · · · ·				
	EC 50	676 mg/ L/ 72 Hr (Scenedesmus subspicatus (green algae)) (Effect: cell multiplication				
		inhibition test)				
Effects seen >LOS (Algae)		Effects seen >LOS (Algae)				

EL50 96 h >980 mg/L (n, > LoS) (Scenedesmus subspicatus (green algae))

LC 50 (96 Hr) >0.4 mg/L (n)(>LoS) (Fish Onchorhynchus mykiss(Rainbow trout))

· Persistence and degradability The substance is readily biodegradable in water

- · Bioaccumulative potential
- Bioaccumulation:

Bioconcentration factor (BCF) = 56 [Golden orfe fish (Leuciscus idus melanotus)], BCF <2000 L/kg, hence Not Bioaccumulative

- · Mobility in soil
- Mobility:

The Koc of 1-hexadecanol is 25,000(estimated), this estimated Koc value suggests that 1-hexadecanol is expected to be immobile in soil.

- · Ecotoxical effects:
- · Remark:
- Water solubility = 0.013 mg/L at 25 °C

(n) based on nominal concentrations (>LoS): EC50 observed was greater than the limit of solubility of at least some constituents of the substance.

- · Additional ecological information:
- · General notes: Generally not hazardous for water
- · Results of PBT and vPvB assessment
- **PBT:** The substance is not PBT.
- **vPvB:** Not vPvB
- · Other adverse effects No further relevant information available.



13 Disposal considerations

· Waste treatment methods

a) The product should not get into any kind of water without treatment. Dissolved in water, the material iseasily biodegradeable (90%) and will not cause any disturbance in wastewater-treatment plants. Due to itslow solubility in water, larger amounts need to be eliminated by separators, such as those used for fats andoils.

b) Disposal of small amounts of waste material to be done in accordance with federal, state and local environmental regulations.

c)Larger amounts should be collected as described in section 6 and used for recycling crude raw materials. **Recommendation:**

1)Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix thematerial with a combustible solvent and burn in a chemical incinerator equipped with an afterburner andscrubber. Observe all federal, state, and local environmental regulations.

2)Can be incinerated, when in compliance with local regulations.

· Waste disposal key:

i)Disposal of small amounts of waste material to be done in accordance with federal, state and local environmental regulations.

ii)Larger amounts should be collected as described in section 6 and used for recycling crude raw materials.

· Uncleaned packagings:

• Recommendation: Dispose of as unused product.

14 Transport information

· UN-Number	
· DOT, ADR, ADN, IMDG, IATA	Not applicable.
• UN proper shipping name • DOT, ADR, ADN, IMDG, IATA	Not applicable.
· Transport hazard class(es)	
· DOT, ADR, ADN, IMDG, IATA · Class	Not applicable.
 Packing group DOT, ADR, IMDG, IATA 	Not applicable.
 Environmental hazards: Marine pollutant: 	No
· Special precautions for user	Not applicable.
• Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· DOT	
· Quantity limitations	On passenger aircraft/rail: No limit On cargo aircraft only: No limit
· UN "Model Regulation":	-

15 Regulatory information

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

• Section 355 (extremely hazardous substances): Substance is not listed.

• Section 313 (Specific toxic chemical listings): Substance is not listed.



- TSCA (Toxic Substances Control Act): Substance is listed.
- · Proposition 65
- · Chemicals known to cause cancer: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- · Chemicals known to cause developmental toxicity: Substance is not listed.
- · Carcinogenic categories
- · EPA (Environmental Protection Agency) Substance is not listed.
- TLV (Threshold Limit Value established by ACGIH) Substance is not listed.
- · NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.
- · Product related hazard informations:

Observe the general safety regulations when handling chemicals.

· National regulations:

· Other regulations, limitations and prohibitive regulations

- US-TSCA Listed Japan MITI - Listed New Zealand (NZioC) - Listed Australian Inventory of Chemical Substances (AICS) - Listed Philippine Inventory of Chemicals and Chemical Substances (PICCS) - Listed China (IECSC) - Listed Environmental Canada(DSL)-Listed Chemical sofety assessment:
- · Chemical safety assessment:
- A Chemical Safety Assessment shall be carried out at the time of REACH Registration.

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.

- · Date of preparation / last revision 05/15/2015 / -
- · 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 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 · Sources Occupational Safety & Health Administration (OSHA) ECHA-registered substances CHEMICAL SAFETY REPORT (CSR)- C6-24 ALCOHOLS CATEGORY. **HSDB**