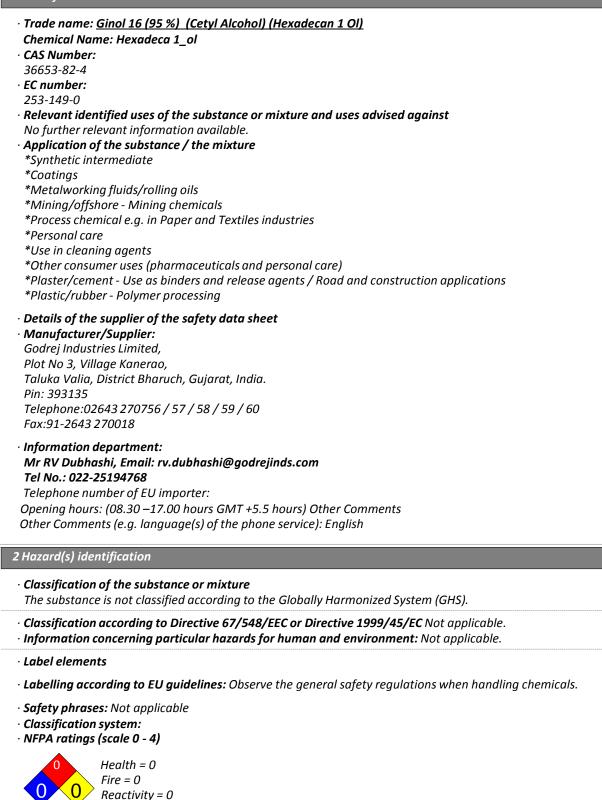
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1 Identification



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· HMIS-ratings (scale 0 - 4)

HEALT 0	Health = 0
H FIRE	Fire = 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: 253-149-0
- Additonal information: Molecular Formula : C16H34O Molecular Weight : 242.45 g/mol
- · Composition Cetyl alcohol min. 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

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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 · Storaae: · 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.

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Exposure controls Personal protective equipment:	
General protective and hygienic me	asures:
Observe the usual precautions for he	
Do not eat or drink while working.	
Do not store food in the working are	
Store protective clothing separately.	
Wash hands before breaks and at th	e end of work.
Breathing equipment:	
1)Use NIOSH- / MSHA-approved resp	pirator. ection must be worn. Consider the maximum period for wear.
Respiratory protection: Particle filter	
Protection of hands:	
	neable and resistant to the product/ the substance/ the preparation.
	lation to the glove material can be given for the product/ the preparation
the chemical mixture.	5 5 7 7 7 7 7
	n consideration of the penetration times, rates of diffusion and
the degradation	
	tect as effectively against the substance as protective gloves.
	s should be preferred as far as possible.
Material of gloves Polychloroprene - CR (0,5 mm)	
Nitrile rubber/Nitrile latex - NBR (0,3	35 mm)
Butyl rubber - Butyl (0,5 mm)	
Fluoro carbon rubber - FKM (0,4 mm	
	7
Polyvinyl chloride - PVC (0,5 mm) Penetration time of glove material The exact break through time has to observed.	, o be found out by the manufacturer of the protective gloves and has to b
Polyvinyl chloride - PVC (0,5 mm) Penetration time of glove material The exact break through time has to observed. Eye protection: Safety glasses	
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Polyvinyl chloride - PVC (0,5 mm) Penetration time of glove material The exact break through time has to observed. Eye protection: Safety glasses Body protection: Suitable protective Physical and chemical properties Information on basic physical and c General Information Appearance: Form: Color: Odor: Change in condition Melting point/Melting range: Boiling point/Boiling range: Flash point:	o be found out by the manufacturer of the protective gloves and has to be e clothing - long sleeve shirts and trousers. hemical properties White flakes/Pastilles (clear liquid when melted) Colourless Odorless 51 °C (124 °F) 305 °C to 330 °C (581 °C to 626 °F) Ca 180 °C (Ca 356 °F)
Polyvinyl chloride - PVC (0,5 mm) Penetration time of glove material The exact break through time has to observed. Eye protection: Safety glasses Body protection: Suitable protective Physical and chemical properties Information on basic physical and c General Information Appearance: Form: Color: Odor: Change in condition Melting point/Melting range: Boiling point/Boiling range: Flash point: Flammability (solid, gaseous):	o be found out by the manufacturer of the protective gloves and has to be e clothing - long sleeve shirts and trousers. hemical properties White flakes/Pastilles (clear liquid when melted) Colourless Odorless 51 °C (124 °F) 305 °C to 330 °C (581 °C to 626 °F) Ca 180 °C (Ca 356 °F) Product is not flammable.
Polyvinyl chloride - PVC (0,5 mm) Penetration time of glove material The exact break through time has to observed. Eye protection: Safety glasses Body protection: Suitable protective Physical and chemical properties Information on basic physical and c General Information Appearance: Form: Color: Odor: Change in condition Melting point/Melting range: Boiling point/Boiling range: Flash point: Flammability (solid, gaseous): Ignition temperature:	o be found out by the manufacturer of the protective gloves and has to be e clothing - long sleeve shirts and trousers. hemical properties White flakes/Pastilles (clear liquid when melted) Colourless Odorless 51 °C (124 °F) 305 °C to 330 °C (581 °C to 626 °F) Ca 180 °C (Ca 356 °F) Product is not flammable. 250 °C (482 °F)
Polyvinyl chloride - PVC (0,5 mm) Penetration time of glove material The exact break through time has to observed. Eye protection: Safety glasses Body protection: Suitable protective Physical and chemical properties Information on basic physical and c General Information Appearance: Form: Color: Odor: Change in condition Melting point/Melting range: Boiling point/Boiling range: Flash point: Flammability (solid, gaseous): Ignition temperature: Auto igniting: Danger of explosion:	o be found out by the manufacturer of the protective gloves and has to b e clothing - long sleeve shirts and trousers. hemical properties White flakes/Pastilles (clear liquid when melted) Colourless Odorless 51 °C (124 °F) 305 °C to 330 °C (581 °C to 626 °F) Ca 180 °C (Ca 356 °F) Product is not flammable. 250 °C (482 °F) Product is not selfigniting.
Polyvinyl chloride - PVC (0,5 mm) Penetration time of glove material The exact break through time has to observed. Eye protection: Safety glasses Body protection: Suitable protective Physical and chemical properties Information on basic physical and c General Information Appearance: Form: Color: Odor: Change in condition Melting point/Melting range: Boiling point/Boiling range: Flash point: Flammability (solid, gaseous): Ignition temperature: Auto igniting:	o be found out by the manufacturer of the protective gloves and has to b e clothing - long sleeve shirts and trousers. hemical properties White flakes/Pastilles (clear liquid when melted) Colourless Odorless 51 °C (124 °F) 305 °C to 330 °C (581 °C to 626 °F) Ca 180 °C (Ca 356 °F) Product is not flammable. 250 °C (482 °F) Product is not selfigniting.

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· Ingredients with biological limit values:

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Trade name: Ginol 16 (95 %) (Cetyl Alcohol) (Hexadecan 1 Ol)

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/wat	er): 6.7 log POW	
Viscosity:		
Dynamic at 100 °C (212 °F):	3.394 mm²/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

11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

LD50 >5000 gm/kg (rat) Oral

Dermal LD50 8000mg/kg (24 hours occluded) (rabbit)

· Primary irritant effect:

· on the skin:

Skin irritation to rabbit Animal species:Rabbit/New Zealand White

- Type of coverage:semiocclusive
- Irritation parameter:primary dermal irritation index (PDII)

Score:0

AVERAGE SCORE

- Erythema: Erythema (grade 1) observed at 1 hour after removal of dressings. All scores at other time points 0.

- Oedema: No oedema observed.

Result: The producr is non-irritating to rabbit skin

· on the eye:

Eve irritation Animal/species:New Zealand White rabbit Duration of treatment / exposure :72 hours Irritation parameter:cornea score Basis:animal 1 Time pointmean: 24,48,72h Score:0.3 Irritation parameter: Iridial inflammation Basis:animal 1 Time point :mean 24,48,72h

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Ejjecuve	Dale	01/04	/20

Score :0						
	itating to eye ograbbit					
· Sensitization:						
· Other informa	ition (about experimental toxicology):					
	arcinogenity, mutagenicity and toxicity for reproduction)					
	Reproduction toxicity;					
	Species/Strain:dog/Beagle					
Route:Oral						
	NOAEL:> 1054 mg/kg bw/day					
	:Albino rat/male/female					
	NOAEL(male):1822 mg/kg bw/day NOAEL(female):4567 mg/kg bw/day					
Route:Oral	Species/Strain:Sprague-Dawley rat male/female Poute:Oral					
	NOAEL(male/female):1000 mg/kg bw/day					
	· Additional toxicological information:					
	d handled according to specifications, the product does not have any harmful effects according					
	nce and the information provided to us.					
The substance	is not subject to classification.					
· NTP (National	tional Agency for Research on Cancer) Substance is not listed. I Toxicology Program) Substance is not listed. upational Safety & Health Administration) Substance is not listed.					
12 Ecological i	nformation					
· Toxicity						
· Aquatic toxici	ty:					
EC 50	676 mg/ L/ 72 Hr (Scenedesmus subspicatus (green algae)) (Effect: cell multiplication inhibition test)					
	Effects seen >LOS (Algae)					
EL50 96 h	>980 mg/L (n, > LoS) (Scenedesmus subspicatus (green algae))					
LC 50 (96 Hr)	LC 50 (96 Hr) >0.4 mg/L (n)(>LoS) (Fish Onchorhynchus mykiss(Rainbow trout))					
· Persistence ar	nd degradability The substance is readily biodegradable in water					
· Bioaccumulat	ive 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.

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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 reaulations.

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

14 mansport mjormation	
· 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.

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 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 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.

· Department issuing SDS: Product safety department. · · · Contact: Mr. RV Dubhashi Akshay Bhavsar Tel no. 022-25194768 Email: rv.dubhashi@godrejinds.com, ap.bhavsar@godrejinds.com Date of last revision 01/04/2019 · 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) https://www.osha.gov/Publications/OSHA3514.html ECHA-registered substances http://apps.echa.europa.eu/registered/data/dossiers/DISS-a2174699-67cd-2015-e044-00144f67d031/DISSa2174699-67cd-2015-e044-00144f67d031DISS-a2174699-67cd-2015-e044-00144f67d031.html CHEMICAL SAFETY REPORT (CSR)- C6-24 ALCOHOLS CATEGORY. HSDB: http://toxnet.nlm.nih.gov/cgi-bin/sis/search/f?./temp/~NCt6Vb:1

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Chemidplus:

http://chem.sis.nlm.nih.gov/chemidplus/ ProxyServletobjectHandle=Search&actionHandle=getAll3DMViewFiles&nextPage=jsp%2Fcommon%2FCh emFull.jsp%3FcalledFrom%3Dlite&chemid=0036653824&formatType= 3D * Data compared to the previous version altered.

•Section 1:Identification of the substance/mixture and of the company/undertaking

•Section 2:Hazard Identification

•Section 3:Composition/information on ingredients

•Section 4: First-aid measures.

•Section 5: Fire-fighting measures

•Section 6: Accidental Release measures

•Section 7: Handling and storage.

•Section 8: Exposure Controls/Personal protection.

•Section 9: Physical and Chemical properties.

•Section 10: Stability and Reactivity.

•Section 11: Toxicological Information.

•Section 12: Ecological Information.

•Section 13: Disposal consideration

•Section 14: Transport information

•Section 15: Regulatory information

•Section 16:Other information