

SAFETY DATA SHEET

ECOROL 16

according to OSHA HCS

Date of Issue: 18-March-2015

Date of Revision: 17-Dec-2020

1. Substance and Company Identification

Product names	: ECOROL 16/98 ECOROL 16/98P ECOROL 16/98P (Ph. Eur.) ECOROL 16/99 ECOROL 16/99P ECOROL 16/98/MB ECOROL 16/98P/MB ECOROL 16/98P (Ph. Eur.)/MB ECOROL 16/99/MB ECOROL 16/99P/MB
Other identifications	: Cetyl Alcohol, 1-Hexadecanol
Applications	: Initial product for chemical reactions Plasticizer Cosmetic auxiliary
Supplier	: PT Ecogreen Oleochemicals Jl. Pelabuhan Kav. 1 Kabil Batam Island Indonesia Telp. +62 778 711002 - 006 Fax. +62 778 711007
Emergency telephones	: +62 778 711002 ext. 341

2. Hazards Identification

Classification and labeling according to the Globally Harmonized System (GHS)

The substance is not classified according to this regulation

Classification system

NFPA ratings (scale 0 - 4)



WHMIS ratings (scale 0 - 4)



3. Composition/Information on Ingredients

Chemical name	: 1-Hexadecanol
Common name	: Cetyl Alcohol
CAS number	: 36653-82-4
EC number	: 253-149-0

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4. First Aid Measures

General information	: No special measures required
After eye contact	: Rinse opened eyes for several minutes under running water. If symptoms persists, consult a doctor
After skin contact	: Generally the product does not irritate the skin If skin irritation continues, consult a doctor
After inhalation	: Supply fresh air, consult doctor in case of complaints
After swallowing	: Rinse out mouth and then drink plenty of water. If symptom persists consult the doctor

5. Firefighting Measures

Suitable extinguishing agents	: Small fire <ul style="list-style-type: none">Use fire extinguishing methods suitable to surrounding conditions: CO₂, extinguishing powder or water spray Large fire <ul style="list-style-type: none">Use alcohol resistant foam
Unsuitable extinguishing agents	: Water with full jet
Protective equipment	: Wear suitable protective clothing in dangerous zone
Additional information	: Cool endangered receptacles with water spray

6. Accidental Release Measures

Person-related safety precaution	: Avoid formation of dust
Measures for environmental protection	: No special measures required
Measures for cleaning/collecting	: Pick up mechanically

7. Handling and Storage

Handling	
Safe handling	: No special measures required
Fire and explosion protection	: No special measures required
Storage	
Store room and receptacles	: Keep receptacle tightly sealed
Suitable material	: Steel or stainless steel. Use polyolefine lining in receptacles
Information about storage in one common facility	: Not required
Further information about storage conditions	: When storing in tanks, cover with layer of Nitrogen-protective gas
Maximum temperature	: 104 °F (Ecorol 16/98P), 149 °F (Ecorol 16/98)
Minimum temperature	: 131 °F (Ecorol 16/98)

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8. Exposure Controls/Personal Protections

General protective and hygienic measures	:	The usual precautionary measures are to be adhered to when handling chemicals
Respiratory protection	:	Not required
Eye protection	:	Safety glasses
Skin protection	:	Protective gloves
Body protection	:	Protective work clothing

9. Physical and Chemical Properties

Form at room temperature (25 °C)	:	Solid
Color	:	Colorless, white when solidified
Odor	:	Specific type
Change in condition		
Solidification point, °C	:	47-49
Melting point, °C	:	47-51
Boiling point, °C	:	319
Flash point, °C	:	approx. 149
Vapor pressure at 50 °C, hPa	:	0.003 (0 mm Hg)
Density at 55 °C, g/cm ³	:	approx. 0.81
Viscosity at 55 °C, mPa.s	:	approx. 12
Solubility in / miscibility with water at 20 °C, g/l	:	1.2 E-5

10. Stability and Reactivity

Possibility of hazardous reactions	:	Reacts with strong acids and oxidizing agents
Conditions to be avoided	:	No decomposition if used according to specification
Hazardous decomposition products	:	No dangerous decomposition products known

11. Toxicological Information

Acute toxicity:

LD/LC50 values relevant for classification:		
Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)
Inhalative	LC50	>375 mg/l (rat)
	LD50	<i>read across Tetradecanol</i>
	LD50	>0.14 ppm (rat)
		<i>read across Tetradecanol</i>

Primary irritant effects

On the skin	:	No irritating effect
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On the eye : No irritating effect
 Sensitization : No sensitizing effect known
 Additional toxicological information : When used and handled according to specifications, the product does not have any harmful effect due to our experience and the information provided to us

12. Ecological Information

Aquatic toxicity:

EC50 (static)	>680 mg/l (alga) (OECD 201) >70 mg/l (daphnia) (OECD 202) <i>read across Alcohol C16-C18, C18-unsaturated</i>
LC50 (static)	>0.4 mg/l (fish) (OECD 203)
NOEC (Long term)	>0.98 mg/l (daphnia) (OECD 202) <i>read across Octadecanol</i>
NOEL (Long term)	>10 mg/l (alga) (OECD 201)

Persistence and degradability : Easily biodegradable
 Method : OECD 301B
 Analyzing method : CO₂-Evolution
 Degree of elimination : 82%
 Classification : Readily biodegradable

Ecotoxic effects:	
Sediment toxicity - LC50	>3800 mg/kg dw (ostracods) <i>read across Tetradecanol</i>
Terrestrial toxicity - LC50	>1500 mg/kg dw (earth worm) <i>read across Tetradecanol</i>

General notes : Generally not hazardous for water

13. Disposal Consideration

Product

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 regulation

14. Transport Information

General information : Not hazardous according to RID/ADR, IMDG, ICAO/IATA

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15. Regulatory Information

Inventory list

: Listed on:

- TSCA (Toxic Substances Control Act) (US)
- PICCS (Philippines Inventory of Chemicals and Chemical Substances)
- IECSC (Inventory of Existing Chemical Substances in China)
- AICS (Australian Inventory of Chemical Substances)
- ENCS (Existing and New Chemical Substances) (Japan)
- KECI (Korean Existing Chemical Inventory)
- DSL (Canadian Domestic Substances List)
- NZIC (New Zealand Inventory of Chemicals)
- TCSI (Existing Chemical Substances Inventory) (Taiwan)

Not listed on:

- Sara Section 355 (extremely hazardous substances) and Section 313 (specific toxic chemical listing)
- Proposition 65
- EPA (Environmental Protection Agency)
- TLV (Threshold Limit Value establish by ACGIH)
- MAK (German Maximum Workplace Concentration)
- NIOSH-Ca (National Institute for Occupational Safety and Health)
- IARC (International Agency for Research on Cancer)
- NTP (National Toxicology Program)
- OSHA-Ca (Occupational Safety and Health Administration)

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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.

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Abbreviations and acronyms:

- ADR: European Agreement concerning the International Carriage of Dangerous Good by Road
- RID: Regulations concerning the International Transport of Dangerous Good by Rail
- IMDG: International Maritime Code for Dangerous Good
- IATA: International Air Transport Association
- ICAO: International Civil Aviation Organization
- P: Marine Pollutant
- GHS: Globally Harmonized System of Classification and Labeling of Chemicals
- EC: European Commission
- CAS: Chemical Abstracts Service
- LC50: Lethal Concentration, 50 percent
- LD50: Lethal Dose, 50 percent
- EC50: Effect Concentration, 50 percent
- DNEL: Derived No-Effect Level (REACH)
- PNEC: Predicted No-Effect Concentration (REACH)
- ACGIH: American Conference of Governmental Industrial Hygienists
- NOEL: No Observed effect level
- NOEC: No Observed Effect Concentration