



Date of Issue: 18-March-2015
Date of Revision: 17-Dec-2020

PT ECOGREEN OLEOCHEMICALS

SAFETY DATA SHEET

according to OSHA HCS

ECOROL 16

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
- Use fire extinguishing methods suitable to surrounding conditions: CO₂, extinguishing powder or water spray
- Large fire : Use alcohol resistant foam
- Water with full jet
 - Wear suitable protective clothing in dangerous zone
 - Cool endangered receptacles with water spray
- Unsuitable extinguishing agents : Avoid formation of dust
- Protective equipment : No special measures required
- Additional information : Pick up mechanically

6. Accidental Release Measures

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

7. Handling and Storage

- Handling : No special measures required
- Safe handling : No special measures required
- Fire and explosion protection : No special measures required
- Storage : Keep receptacle tightly sealed
- Store room and receptacles : Steel or stainless steel. Use polyolefine lining in suitable material
- Information about storage in one common : 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/cm³ : 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)
	read across Tetradecanol
	LD50 >0.14 ppm (rat)
	read across Tetradecanol

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

Persistence and degradability

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

Ecotoxic effects:

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

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)

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

The substance is not classified according to this regulation

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
- ICAD: 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

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