

MATERIAL SAFETY DATA SHEET COCONUT DIETHANOLAMIDE FATTY ACID DIETHANOLAMIDE COCOAMIDE-DEA

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CAS REGISTRY No. 61791-31-9

DESCRIPTION :-

Coconut Diethanolamide (Type : CDE/80-300) is a non-ionic surfactants of the alkanolamide group. A viscous light yellowish liquid that gels in water to enhance viscosity with thickening ability, has high detergency and mild alkalinity; and has excellent foaming and wetting ability.

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY.

1.0 SUPPLIER	Natural Oleochemicals Sdn. Bhd.
1.1 COMMERCIAL NAME	Fatty Acid Diethanolamide.
1.2 GROUP OF CHEMICALS	Alkanolamides.
1.3 CHEMICAL FORMULA	R-CON(CH ₂ CH ₂ OH) ₂ .

2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	Chemical Entity	CAS Number	Percent
Coconut Diethanolamide	Fatty Acid Diethanolamide	61791-31-9	>85
Glycerine	Glycerine	56-81-5	<10
Diethanolamine	Diethanolamine	111-42-2	<6

3. IMPORTANT CHARACTERISTICS

- 3.1 Liquid at ambient temperatures in slow flowing form.
- 3.2 Slight characteristic odour.
- 3.3 Non toxic, RVOC, US EPA, % is nil and is biodegradable.

4. FIRST AID MEASURES

- 4.1 SWALLOWED
Do NOT induce vomiting. Wash mouth out with water and give abundant water to drink.
If symptoms develop, seek medical advice.
- 4.2 EYE
Rinse repeatedly with abundant water. If symptoms persist, seek medical attention.
- 4.3 SKIN
Remove contaminated wears, wash body with soap and water to remove soapyness.
If symptoms persist, seek medical attention.
- 4.4 INHALATION
Not normally applicable. Move to well ventilated environment.
- 4.5 PROLONGED EXPOSURE
Aggravated medical conditions caused by exposure may cause defatting leading to dermatitis.

5. FIRE AND EXPLOSION HAZARD DATA.

HAZCHEM Code : N/A.

- 5.1 Flammability – product is combustible.
- 5.2 Fire fighting media in case of fire are dry powder, foam, carbon dioxide or water fog for extinguishing. Hazards from combustion of material include decomposed noxious fumes containing oxides of carbon and to a small extent of nitrogen. Fire fighters must wear self-breathing apparatus with full protective clothing.

6. SPILLAGE / ACCIDENTAL RELEASE / LEAKAGE.

- 6.1 Soak up spilled product using absorbent of non-combustible material like sand. Sweep spillage off and packed in used drums for proper disposal. Spread small quantity of saw dust to mop balance spillage and sweep off. Wash and mop area with water.
- 6.2 Emergency spillage of large quantity – personnel involved in the cleaning should wear fully protective clothing, gloves and mask. Isolate all sources of ignition, ventilate well and prevent slipping. Cordon off spillage with solid absorbent, absorb and dispose it in covered containers in accordance to the instruction of the Environmental Protection Agency.

7. HANDLING AND STORAGE

- 7.1 To use gloves and safety goggles when handling. Wash thoroughly after handling material. Keep in sealed containers at below 41 deg. C and place away from heat source or direct fire. If overheating does occur, amide ester will be formed rendering decreased foam and low viscosity in formulations. Product is biodegradable.

8. EXPOSURE / PERSONNEL PROTECTION.

- 8.1 Biological limit - Biological limit allocated.
- 8.2 Ventilation limit - Natural ventilation adequate in exposed area, for covered enclosed area, local exhaust ventilation system is desired.
- 8.3 Personnel Protection - Respirator if ventilation inadequate, Wear safety glasses for eyes protection, impervious gloves for hand protection, protective overalls or plastic aprons for body protection and non-slip boots for the feet.

9. PHYSICAL PROPERTIES

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|--------------------------------|---------|
| 9.1 Actives, % | 100 |
| 9.2 Boiling Point, deg. C. | > 120. |
| 9.3 Freeze Point, deg. C. | < 5 |
| 9.4 Flash Point (PMCC), deg. C | > 90 |
| 9.5 Solubility | |
| 9.5.1 Water | Soluble |
| 9.5.2 Alcohol | Soluble |
| 9.5.3 Glycol | Soluble |
| 9.5.4 Aromatic Hydrocarbon | Soluble |
| 9.5.5 Chlorinated Hydrocarbon | Soluble |

9.6	Appearance @ 25 deg. C	Viscous liquid
9.7	Moisture, % (w/w)	0.2
9.8	Density, g/ml	0.998 – 1.000
9.9	Viscosity, cps @ 25 deg. C	>1100
	@ 60 deg. C	>140
9.10	Surface Tension (0.1 %) dynes/cm	29
9.11	Wetting Time (Draves 0.1%), sec.	29
9.12	pH (1% aqueous)	9 – 11
9.13	Colour (APHA)	< 300

10. REACTIVITY AND STABILITY

- 10.1 Chemical Stability - Product is stable under normal storage condition.
Avoid heat, direct sunshine and elevated temperature.
- 10.2 Incompatible Materials - Oxidising agents, strong acid or base and ignition source.
- 10.3 Harzardous Decomposition Products - Thermal decomposition and combustion produce oxides of carbon and nitrogen.
- 10.3 Hazardous Reactions - No polymerization noted.

11. TOXICOLOGICAL INFORMATION.

- 11.1 Toxicity Data - Acute-toxicity-fish : LC50 1-10mg/L.
Acute-toxicity-daphia : LC50 1-10mg/L.
Acute-toxicity-bacteria : LC50>1000mg/L
- 11.2 Health Effects - May irritate the gut causing nausea and vomiting if swallowed.
Irritating in contact with eye causing stinging, blurred vision and redness. Skin contact may cause redness and itch. Inhalation may cause discomfort to the nose, throat and respiratory tracts.

12. ECOLOGICAL INFORMATION

- 12.1 Ecotoxicity - Avoid contaminating waterways.
- 12.2 Mobility - Soluble in water, may contaminate groundwater.
- 12.3 Bioaccumulative effect - No information available.
- 12.4 Environmental Protection - Avoid contaminating water sources.
- 12.5 Persistency and Degradation - No information available on this product. Classified as readily biodegradable based on Australian Std AS4351.

13. WASTE DISPOSAL

- 13.1 Dispose off in accordance to all council, state and national environmental regulations.
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14. TRANSPORT INFORMATION.

14.1 Land transport & : UN Number : Not applicable.
Sea transport : Shipping Name : Coconut Diethanolamide,
Coconut Fatty Acid Diethanolamide
Cocoamide – DEA

Dangerous Good : Class C.1 Combustible Liquid (Non-DG)
Subsidiary Risk : Not applicable
Pack Group : Not applicable
User Precaution : Irritant
Hazchem Code : Not available.

15. REGULATORY INFORMATION

No data available.

15.1 Poison Schedule : 5
15.2 EPG : NA.
15.3 AICS Name : Fatty Acids of Coco, condensate with Diethanolamine.
15.4 NZ Toxic List : No.
15.5 HSNO Hazard Class. : No data available
15.6 ERMA Approval Code : No data available

16. OTHER INFORMATION.

Not available.

This MSDS is generated to the best of our knowledge and is intended to assist the users general information and safe handling of the product. We expressly disclaim that the MSDS is a representation or guarantee of the chemical's specification. The user should consider the information in the context of his usage of the product and in conjunction with other substances blended.