

SAFETY DATA SHEET

1. PRODUCT & MANUFACTURER IDENTIFICATION

Trade Name VESTAMID CDE
Chemical name Coconut Diethanolamide
INCI Name Cocamide DEA

Chemical Formula
$$\begin{array}{c} \text{O} \\ || \\ \text{R-C-N} (\text{CH}_2\text{CH}_2\text{OH})_2 \end{array}$$

Product Code NI101
Chemical class Alkanolamide
Recommended Use Surfactant

2. HAZARDS IDENTIFICATION

Physical hazards Not classified

Health hazards Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 1

Environmental hazards Hazardous to the aquatic environment, acute hazard Category 2
Hazardous to the aquatic environment, Long-term hazard Category 3

OSHA defined hazards Not classified

Label elements



Signal word Danger

Hazard statement Causes skin irritation. Causes serious eye damage. Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Precautionary statement

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Prevention	Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves/eye protection/face protection.
Response	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor/physician. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. IF ON SKIN: Wash with plenty of soap and water
Storage	Store in a well ventilated place. Keep cool.
Disposal	Dispose of content/container in accordance to the local or national regulations
Hazard(s) not otherwise Classified (HNOC)	Not known
Supplementary information:	None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient Name	CAS#	Percent
Cocamide DEA	68603-42-9	> 84
Glycerin	56-81-5	< 8
Diethanolamine, DEA	111-42-2	< 7
Methanol	67-56-1	<1

4. FIRST AID MEASURES

Inhalation	Remove patient to fresh air. If symptoms persist, get medical attention. If affected person is not breathing, apply artificial respiration. If breathing is difficult, give oxygen and get medical attention immediately.
Skin Contact	Flush with large amounts of water. If irritation develops or persists, immediately take off contaminated clothing. Wash contaminated clothing separately before reuse.
Eye Contact	Flush with plenty of water or for 10-15 minutes. Get medical attention immediately.
Ingestion	Rinse mouth. If symptoms occur, contact a physician immediately. Do not induce vomiting without a physician's advice.
Most Important symptoms/effects' Acute and delayed	Symptoms may include stinging, redness, tearing, swelling and blurred vision. Skin irritation may cause redness and pain.
Indication of immediate medical Attention and special treatment Needed	Thermal burns: Flush with water immediately while removing clothing if safe to do so. Call on ambulance. Keep victim under observation.
General information	Take off all contaminated clothing immediately. Ensure medical personnel are aware of the nature of material involved. Wash contaminated clothing before reuse

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5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Water fog. Foam. Dry chemical powder. Use water to cool fire-exposed containers and to protect personnel.
Hazardous combustion products	Material is not flammable but if involved in a fire could give off toxic fumes such as sulphur dioxide. Use self contained breathing apparatus. Use any suitable fire fighting medium.
Protective equipment and precautions for firefighters	Wear self-contained breathing apparatus and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Isolate area. Ventilate closed space before entering. Keep unnecessary personnel away. Stay upwind and keep out of low areas.
Environmental precautions	Prevent any further leakage or spillage if safe to do so.
Method for containment	Prevent entry into waterways, sewers, basements or confined space.
Methods for cleaning up	Wear appropriate protective equipment and clothing during clean-up. Small Spills: Use a non-combustible material like vermiculite, sand or earth to soak up product and place into a container for later disposal. Large Spills: Dike far ahead of liquid spill for later disposal.

7. HANDLING and STORAGE

Handling	Avoid skin and eye contact. Wash thoroughly after handling.
Storage	Avoid mild steel storage. Avoid extremes of temperature (above 45°C). Keep container in a well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits

US. NOISH: Pocket Guide to Chemical Hazards

Component	Type	Value
Glycerine (CAS 56-81-5)	PEL	5mg/m ³
Diethanolamine (CAS 67-56-1)	TWA	15mg/m ³
Methanol (CAS 67-56-1)	STEL	325mg/m ³ /250ppm
	TWA	260mg/m ³ /200ppm

Engineering controls	Use general ventilation. Local exhaust is suggested for use where possible in enclosed or confined space.
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Personal protective equipment

General

Eye wash fountain and emergency showers are recommended.

Eye/face protection

Wear chemical goggles or face shield.

Skin protection

Wear suitable protective clothing. Wear impervious gloves.

Respiratory protection

Handle product in closed vessels. If ventilation is insufficient to effectively prevent build-up of aerosols or vapours, appropriate respiratory protection must be provided.

9. PHYSICAL and CHEMICAL PROPERTIES

Appearance

Clear, Viscous

Physical state

Liquid

Form

Liquid

Colour

Amber

Odour

Not available

Odour threshold

Not available

pH

9.0 – 11.2 (1% solution in water)

Melting /freezing point

0 °C

Initial boiling point and boiling range

>150°C

Flash point

> 94°C Pensky-Martens Closed Cup

Evaporation rate

Estimated slower than ethyl ether.

Flammability(solid, gas)

Not available

Upper/lower flammability or explosive limits

Flammability limit-lower

Not available

Flammability limit-upper

Not available

Explosive limit-lower (%)

Not available

Explosive limit-upper (%)

Not available

Vapour pressure

Not available

Vapour density

Estimated heavier than air

Relative density

Not available

Solubility

Not available

Auto-ignition temperature

Not available

Decomposition temperature

Not available

Viscosity

Not available

Other information

Density

1.10g/cm³

Pour point

3.0°C

10. STABILITY and REACTIVITY

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Reactivity	Stable and non-reactive under normal conditions of use, storage and transportation.
Chemical Stability	Material is stable under normal conditions
Possibility of hazardous reactions	No dangerous reaction is known under normal condition of use.
Conditions to avoid	Avoid heat, sparks and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidants. Strong acids.
Hazardous decomposition products	Upon decomposition, the product may yield sulphur dioxide and oxides of sulphur.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful
Skin Contact	Causes skin irritation. May be harmful in contact with skin
Eye Contact	Causes serious eye damage.
Ingestion	May be harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics Symptoms may include tearing, stinging, and redness. Skin irritation.

Information on toxicological effects

Acute toxicity May be harmful in contact with skin. May be harmful if swallowed.

Product	Species	Test results
VESTAMID CDE		
Acute		
Dermal LD ₅₀	Rabbit	>2000mg/kg
Acute Oral LD ₅₀	Rat	>5000mg/kg

Skin corrosion/irritation Causes skin irritation
Serious eye damage/eye irritation Causes serious eye damage

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer
Skin sensitization Not expected to cause skin sensitization
Germ cell mutagenicity No data available to indicate product or any of its components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity Product not considered to be a carcinogenic
Reproductive toxicity This product contains diethanolamine (DEA) of which effects on reproductive have been estimated at higher DEA concentrations that yields significant toxicity to the parent animals.

Specific target organ toxicity Not applicable

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single exposure
Specific target organ toxicity Not applicable
repeated exposure
Aspiration hazard Not applicable
Chronic effects Prolonged inhalation may be harmful and may cause

12. ECOLOGICAL INFORMATION

Ecotoxicity Toxic to aquatic life. Harmful to aquatic life with long lasting effects

Product	Species	Test Results
Vestamid CDE		
Aquatic		
Acute	Fish LC50	1 – 10 mg/L 96 hours
Crustacea	Crustacea EC50	1.37 – 4.85 mg/L 48 hours
Fish	Fish LC50	3.6mg/l 96 hours
Algae	Algae LC50	10mg/l, 72 hours

Persistence and degradability Readily biodegradable

Bioaccumulation potential No data available

Mobility in soil No data available

Other adverse effects No other environmental effects are expected from this product.

13. DISPOSAL CONSIDERATIONS

Disposal Instructions Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazardous waste code The waste code should be assigned in discussion with the user, the producer and waste disposal company.
Waste from residues/unused products Dispose in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (See Disposal Instructions)
Contaminated Packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

General The below transport classifications are for bulk transportation only and may not be true for smaller package/shipment sizes.

DOT
UN number UN3082
UN Proper Shipping Name Environmentally Hazardous Substance, Liquid, N.O.S. (Diethanolamine RQ = 912 kgs)
Transport Hazard Class(es)
Class 9
Subsidiary Risk -

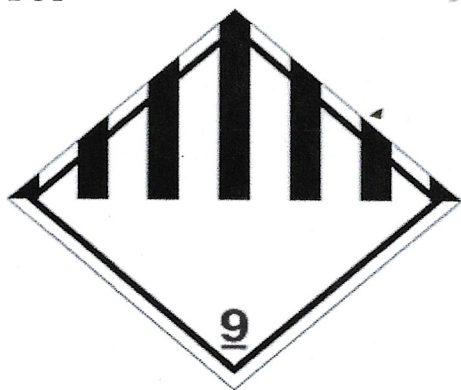
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Packaging Group III
Environmental Hazards No
Specific Precautions for user Read safety instructions, SDS and emergency procedures before handling.

IATA Not regulated as dangerous goods

IMDG Not regulated as dangerous goods

DOT



15. REGULATORY INFORMATION

Labelling accordance with SANS 10234 latest revision.

Physical Hazards None

Health Hazards H303 May be harmful if swallowed
H315 Causes mild skin irritation
H320 Causes eye irritation

Environment Hazards H403 Harmful to aquatic life

OHS Act, 1993(Act No. 85 of 1993). Hazardous Substance Regulation of 1995

16. OTHER INFORMATION

Issue date 19-01-2018
Revision date 28-04-2022
Revision Notes GHS: Classification and alignment.

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Disclaimer

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