

Section 1. Identification**1.1. Product Identifier**

Product form : Mixture
Trade name : VESTAMID CDE
Chemical name : Coconut diethanolamide
INCI Name : Cocamide DEA
Common name(s)/synonyms :

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
INCI Name : Cocamide DEA
CAS-No : N/A
UN-No : 3082

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended on Use : Surfactant

1.3. Restrictions on use of substance or mixture.

Not additional information available

1.4. Supplier's details

Company : Rolfes Chemicals Pty Ltd
Address : Cnr Brammer and Strachan Street
: Germiston
: South Africa

Telephone : 011 873 0157
Email : Info@rolfesza.com

: +27 (0) 17 610 4444 / 0800 112 890

Emergency telephone
number

Section 2. Hazards identification

2.1. Classification of a substance or a mixture

Classification according to the United Nations GHS:

Flammable liquids	: Not classified
Acute toxicity	: Not classified
Serious eye damage/eye irritation	: Hazard category 1
Skin irritation/corrosion	: Hazard category 2
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (STOT)	: Not classified
Hazardous to aquatic environment – Acute hazard	: Hazard category 2
Chronic hazard	: Hazard category 3
Aspiration hazard	: Not classified
Full text of H statements	: Section 16

2.2. Label Elements

Labelling according to SANS 10234: 2007 (GHS) label elements

Hazard pictograms (GHS-UN) : SANS 10234: 2007 (GHS) Label Elements



Signal word (GHS-UN) : Danger!

Hazard statements (GHS-UN): H303 - May be harmful if swallowed.

H315 - Causes mild skin irritation.

H320 - Causes eye irritation.

H403 - Harmful to aquatic life.

Precautionary Statements (GHS-UN):

General: P101+P102+P103: Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

Prevention: P280: Wear protective gloves/protective clothing/eye protection (manufacturer/supplier or the competent authority to specify the type of equipment).

Response:

P363: Wash contaminated clothing before re-use.

P301+P312: IF SWALLOWED, call a poison centre or doctor/physician if you feel unwell.

P301+P330+P331: IF SWALLOWED or INGESTED: Rinse mouth. Do not induce vomiting.

P303+P361+P353: IF ON SKIN (or hair) immediately remove/take off all contaminated clothing. Immediately rinse skin with water/shower.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do so. Continue rinsing.

P332+P313: IF skin irritation or rash occurs: "Get medical advice/attention."

Storage & Disposal : P403+P233: Store in a well ventilated area and keep the container tightly closed.

Dispose of contents/container in accordance with local/regional/national regulations.

See Section 11 for further health effects/toxicological data.

2.3. Other hazards which do not result in classification.

None known.

2.4. Unknown acute toxicity (GHS)

No data available.

Section 3: Composition /Information on Ingredients

3.1. Substance

Not applicable

3.2. Mixture

Chemical Name	Product Identifier (CAS-No)	%	Classification according to the United Nations GHS (Hazard statements).
Diethanolamine	111-42-2	<7	Skin Irr. Category 1, Eye irri., category 2, STOT (blood, kidneys, liver), category 2.
Cocomide DEA	68603-42-9	>84	Skin Irr. Category 2; Eye Irritation, Category 2A; Carcinogenicity: Category 2
Glycerine	56-81-5	<8	Skin irr. Category 2B, H315; STOT (kidneys), Category 3; H370
Methanol	67-56-1	<1	

No known additional substances that can be classified as hazardous according to GHS.

Substance identification codes: See section 11

See Section 8 for Exposure Limits (if applicable).

Section 4. First aid measures

4.1. Description of necessary first aid measures.

- General information** : Take off all contaminated clothing immediately. Ensure medical personnel are aware of the nature of material involved. Wash contaminated clothing before reuse.
- First-aid measures after 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.
- :

First-aid measures after skin Contact	Flush with large amounts of water. If irritation develops or persists, immediately take off contaminated clothing. Wash contaminated clothing separately before reuse.
First-aid measures after eye contact	: Flush with plenty of water or for 10-15 minutes. Get medical attention immediately.
First-aid measures after ingestion	: Rinse mouth. If symptoms occur, contact a physician immediately. Do not induce vomiting without a physician's advice.

4.2. Most important symptoms/effects, acute and delayed

Symptoms may include stinging, redness, tearing, swelling and blurred vision. Skin irritation may cause redness and pain.

4.3. Indication of any 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.

Section 5. Fire-fighting measures

5.1. Extinguishing Media

Suitable media : Water fog. Foam. Dry chemical powder. Use water to cool fire-exposed containers and to protect personnel.

Unsuitable media : None known.

5.2. Special hazards arising from the substance or mixture

None known.

5.3. Special personal protective equipment (PPE) for fire fighters

In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

5.4. Special Fire Fighting Procedures

No data available.

5.5. 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.

Section 6: Accidental release measures

Personal precautions, protective equipment, and emergency procedures : Isolate area. Ventilate closed space before entering. Keep unnecessary personnel away. Stay upwind and keep out of low areas.

Method of containment : Prevent entry into waterways, sewers, basements or confined space.

Environmental precautions : Prevent any further leakage or spillage if safe to do so

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.

Section 7. Handling and storage

7.1. Precautions for safe handling

Safe handling advise : Avoid skin and eye contact. Wash thoroughly after handling.

Advice on protection against fire and explosion: Keep away from open flames, hot surfaces and sources of ignition. Use explosion-proof equipment.

7.2. Conditions for safe storage, including any incompatibilities

Safe storage conditions : Avoid mild steel storage. Avoid extremes of temperature (above 45°C). Keep container in a well-ventilated place.

Incompatible products : None known

Special rules on packaging : No data available

Section 8. Exposure controls/personal protection

8.1. Control parameters: National Occupational Exposure Limits

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

8.2. Exposure controls: Appropriate engineering controls

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

8.3. Individual protection measures, such as personal protective equipment (PPE)





Respiratory protection : Handle product in closed vessels. If ventilation is insufficient to effectively prevent buildup of aerosols or vapors, appropriate respiratory protection must be provided.

Hand protection : Wear impervious gloves.

Eye protection : Wear chemical goggles or face shield.

Skin and body protection : Wear suitable protective clothing.

8.3. Personal protective equipment symbol (s)

Materials for protective clothing Corrosion-proof clothing.	
Hand protection Gloves	
Eye protection Goggles and face shield	
Respiratory protection Gas mask with filter type E at conc. In air >exposure limit	

Section 9. Physical and chemical properties

Information on basic physical and chemical properties.

Physical state	Liquid
Appearance	Liquid @ 20oC
Molecular mass	Data not available
Colour	Amber
Odour	Amide
Odour threshold	N/A
pH	9.0 – 11.2 (1% solution in water)
Relative evaporation rate	Estimated slower than ethyl ether
Melting point	0 °C
Freezing point	0 °C
Boiling point	150 °C
Flash point	> 94 °C Pensky-Martens Closed Cup
Evaporation rate	Estimated slower than ethyl ether
Auto-ignition temperature	Data not available
Decomposition temperature	Data not available
Flammability (solid, gas)	Not applicable
Vapour pressure	Unknown
Vapour density	Estimated lighter than air
Relative vapour density	Data not available

Specific gravity	1.10g/cm ³
Density	1.10g/cm ³ @20 °C
Pour point	3.0 °C
Percent volatile	10
Solubility	Data not available
Log Pow	Data not available
Log Kow	No data available
Viscosity, kinematic	+950 cps @ 25°C
Viscosity, dynamic	No data available
Explosive properties	No data available
Explosive limits	No data available
Oxidising properties	No data available

Section 10. Stability and reactivity

10.1. Reactivity: Conditions/materials to avoid

Reactivity : Stable and non-reactive under normal conditions of use, storage and transportation

Conditions to avoid : Avoid heat, sparks and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials

Possibility of Hazardous Reactions : No dangerous reaction is known under normal condition of use.

Incompatible materials : Strong oxidants. Strong acids.

Hazardous decomposition products : Upon decomposition, the product may yield sulphur dioxide and oxides of sulphur.

10.2. Chemical Stability

Stable at normal conditions.

Section 11. Toxicological information

11.1. Information on toxicological effects

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 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:	N/A
Aspiration hazard:	Not applicable
Chronic effects:	Prolonged inhalation may be harmful and may cause

11.2. Information on 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.

11.3. Delayed and immediate effects and also chronic effects from short-and long-term exposure.

Symptoms may include tearing, stinging, and redness. Skin irritation.

Section 12. Ecological information

12.1. Toxicity

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

12.2. Persistence and Degradability

Readily biodegradable

12.3. Bio-accumulative potential

No bioaccumulation will occur.

12.4. Mobility in soil and water

No data available

12.5. Further information on ecology (other adverse effects)

No other environmental effects are expected from this product.

Section 13: Disposal considerations

13.1. Disposal methods

Disposal instructions : Dispose of contents/container in accordance with local/regional/national/international regulations.

Product waste : 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).

Hazardous waste code : The waste code should be assigned in discussion with the user, the producer and waste disposal company.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

13.2. Other regulations (additional information)

No additional data

Section 14. Transport information

14.1. UN number, transport hazard class (es), packing group, and shipping name.

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	-
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

Section 15: Regulatory Information

15.1. Safety, health, and environmental regulations

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

Other regulatory reference: SANS 10234:2008; SANS 11014:2010; SANS 10228:2012; SANS 10229:2010; SANS 10232(1,2,4), SANS 10231:2018; Occupational Health and Safety Act 85 of 1993; National Road Traffic Act 93 of 1996.

Labeling accordance with SANS 10234 latest revision.

Section 16. Other information

Full text of H-Statements

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

Revision date : 26.08.2022
Revision Notes GHS : Classification and alignment.

Disclaimer

The information given in this safety data sheet is based on knowledge available at the time of compilation and is intended to describe the product only in terms of health and safety requirements. There is no warranty, expressed or implied as to the accuracy, completeness or adequacy of the information contained herein, and neither the manufacturer or distributors and agents including company officials or employees are liable for any damages arising in connection with the accuracy, adequacy of the information contained herein.