

1. IDENTIFICATION

Product Name Coconut diethanolamine

Other Names Coconut diethanolamide; Coconut oil fatty acids, diethanolamide; N,N-Bis(2-hydroxyethyl) coconut oil amide; REDAMIDE

CDE-LA

Uses Personal care, shampoo, toiletries and detergent ingredient; foam booster and viscosity builder.

Chemical Family No Data Available **Chemical Formula** Unspecified

Chemical Name Amides, coco, N,N-bis(hydroxyethyl)

Product Description No Data Available

Contact Details of the Supplier of this Safety Data Sheet

Organisation Location Telephone Redox Ltd 2 Swettenham Road +61-2-97333000 Minto NSW 2566

Australia

Redox Ltd 11 Mayo Road +64-9-2506222

> Wiri Auckland 2104 New 7ealand

Redox Inc. 3960 Paramount Boulevard +1-424-675-3200

Suite 107

Lakewood CA 90712

USA

Redox Chemicals Sdn Bhd Level 2, No. 8, Jalan Sapir 33/7 +60-3-5614-2111

Seksyen 33, Shah Alam Premier Industrial Park

40400 Shah Alam Sengalor, Malaysia

Emergency Contact Details

For emergencies only; DO NOT contact these companies for general product advice.

Organisation	Location	Telephone
Poisons Information Centre	Westmead NSW	1800-251525 131126
Chemcall	Australia	1800-127406 +64-4-9179888
Chemcall	Malaysia	+64-4-9179888
Chemcall	New Zealand	0800-243622 +64-4-9179888
National Poisons Centre	New Zealand	0800-764766
CHEMTREC	USA & Canada	1-800-424-9300 CN723420 +1-703-527-3887

2. HAZARD IDENTIFICATION

Poisons Schedule (Aust) Schedule 5

Auckland

London



Globally Harmonised System

Hazard Classification Hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of

Chemicals (GHS)

Hazard Categories Skin Corrosion/Irritation - Category 2

Serious Eye Damage/Irritation - Category 2A

Acute Hazard To The Aquatic Environment - Category 2

Pictograms

<u>(!</u>)

Signal Word Warning

Hazard Statements H315 Causes skin irritation.

H319 Causes serious eye irritation.

H401 Toxic to aquatic life.

Precautionary Statements Prevention P273 Avoid release to the environment.

P280 Wear protective gloves/eye protection/face protection.

Response P302 + P352 IF ON SKIN: Wash with plenty of water/...

P332 + P313 If skin irritation occurs: Get medical advice/attention.

P362 Take off contaminated clothing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P391 Collect spillage.

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

if present and easy to do. Continue rinsing.

Disposal P501 Dispose of contents/container in accordance with local / regional / national /

international regulations.

National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods Classification NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods

by Road & Rail (ADG Code)

Environmental Protection Authority (New Zealand)

Hazardous Substances and New Organisms Amendment Act 2015

HSNO Classifications Health Hazards **6.3A** Substances that are irritating to the skin

6.4A Substances that are irritating to the eye

6.9B Substances that are harmful to human target organs or systems

Environmental 9.1D Substances that are slightly harmful to the aquatic environment or are otherwise

Hazards designed for biocidal action

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Amides, coco, N,N-bis(hydroxyethyl)	Unspecified	68603-42-9	>=80 - <90 %
Diethanolamine	C4H11NO2	111-42-2	>=3 - <7 %
Ingredients determined not to be hazardous	Unspecified	Unspecified	Balance %

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed IF SWALLOWED: Rinse mouth. Call a Poison Centre or doctor/physician for advice. Do not induce vomiting unless directed

to do so by medical personnel. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Keep victim calm and warm - Obtain immediate medical care.

Never give anything by mouth to an unconscious person.

Eye IF IN EYES: Immediately flush eyes with running water for several minutes, holding eyelids open and occasionally lifting

the upper and lower lids. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes. If eye

irritation persists, get medical advice/attention.

Skin IF ON SKIN: Remove contaminated clothing and shoes immediately. Flush skin with running water for at least 15 minutes.

If skin irritation occurs, get medical advice/attention. Wash contaminated clothing and shoes before reuse.

Inhaled IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a Poison Centre or

doctor/physician for advice. Apply resuscitation if victim is not breathing – Do not use direct mouth-to-mouth method if victim ingested or inhaled the substance; use alternative respiratory method or proper respiratory device. Administer

oxygen if breathing is difficult. Keep victim calm and warm - Obtain immediate medical care.

Advice to Doctor Treat symptomatically. Ensure that attending medical personnel are aware of the identity and nature of the product(s)

involved, and take precautions to protect themselves.

Medical Conditions Aggravated by No information available.

Exposure

5. FIRE FIGHTING MEASURES

General Measures If safe to do so, move undamaged containers from fire area. Cool containers with water spray until well after fire is out.

Avoid getting water inside containers.

Flammability Conditions Not flammable; May burn but does not ignite readily.

Extinguishing Media Use dry chemical, Carbon dioxide (CO2), foam or water spray for extinction - Do not use water jets as that may cause the

fire to spread.

Fire and Explosion Hazard Containers may explode when heated.

Hazardous Products of

Combustion

Fire may produce irritating, toxic and/or corrosive fumes.

Special Fire Fighting Instructions Contain runoff from fire control or dilution water - Runoff may pollute waterways.

Personal Protective Equipment Wear self-contained breathing apparatus (SCBA) and chemical splash suit. SCBA and structural firefighter's uniform may

provide limited protection.

Flash Point 194 °C [PMCC]

Lower Explosion Limit No Data Available

Upper Explosion Limit No Data Available

Auto Ignition Temperature No Data Available

Hazchem Code No Data Available

6. ACCIDENTAL RELEASE MEASURES

General Response Procedure Ensure adequate ventilation. ELIMINATE all ignition sources. Do not touch or walk through spilled material - Material can

create slippery conditions. Avoid breathing vapours and contact with eyes, skin and clothing.

Clean Up Procedures Absorb with earth, sand or other non-combustible material and transfer to a suitable container for disposal (see SECTION

13). Never return spills to original containers for re-use.

Containment Stop leak if safe to do so; Turn leaking containers leak-side up to prevent the escape of liquid. Dike the spilled material,

where this is possible; Prevent entry into waterways, drains or confined areas.

Environmental Precautionary

Measures

Decontamination

Following product recovery, flush area with water.

Prevent entry into soils, drains and waterways.

Evacuation Criteria Spill or leak area should be isolated immediately. Keep unauthorised personnel away.

Personal Precautionary Measures Use personal protective equipment as required (see SECTION 8).

7. HANDLING AND STORAGE

Handling Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Ensure

adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Avoid breathing mist/vapours/spray and contact with eyes, skin and clothing. Do not ingest. Use personal protective equipment as required (see SECTION 8). Avoid excessive heating for prolonged periods of time. Avoid release to the environment.

Storage Store in a cool, dry and well-ventilated place, out of direct sunlight. Keep container tightly closed. Keep away from heat

and sources of ignition - No smoking. Keep away from foodstuffs and incompatible materials (see SECTION 10).

Container Keep in the original container.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General No specific exposure standards are available for this product. For COMPONENT: Diethanolamine (CAS No. 111-42-2):

- Safe Work Australia (SWA) Exposure Standard: TWA = 3 ppm (13 mg/m3).

- New Zealand Workplace Exposure Standard (WES): TWA = 3 ppm (13 mg/m3); Skin absorption (skin).

Exposure Limits No Data Available

Biological Limits No information available.

Engineering Measures Adequate ventilation should be provided so that exposure limits are not exceeded. A system of local and/or general

exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the

general work area.

Personal Protection Equipment - Respiratory protection: Not normally required. Wear respiratory protection in case of inadequate ventilation or risk of

inhalation of vapours. Recommended: Organic vapour/particulate (A/P2) filter respirator (refer to AS/NZS 1715 & 1716).

- Eye/face protection: Wear appropriate eye protection to avoid eye contact. Recommended: Safety glasses or chemical

goggles.

- Hand protection: Wear protective gloves. Recommended: Chemical-resistant gloves.

- Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. No recommendation.

Special Hazards Precaustions

No information available.

Work Hygienic Practices

Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Take off contaminated clothing and

wash before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Liquid

Viscous liquid **Appearance** Odour Light, characteristic

Colour Light yellow рΗ >9 - 11.5

Vapour Pressure No Data Available **Relative Vapour Density** No Data Available

Boiling Point 96 °C **Melting Point** 3.8 °C 6°C **Freezing Point**

Solubility Soluble in water **Specific Gravity** ~1.01 (H2O = 1) **Flash Point** 194 °C [PMCC] **Auto Ignition Temp** No Data Available **Evaporation Rate** No Data Available **Bulk Density** No Data Available **Corrosion Rate** No Data Available **Decomposition Temperature** No Data Available Density No Data Available **Specific Heat** No Data Available **Molecular Weight** No Data Available **Net Propellant Weight** No Data Available **Octanol Water Coefficient** No Data Available **Particle Size** No Data Available **Partition Coefficient** No Data Available **Saturated Vapour Concentration** No Data Available **Vapour Temperature** No Data Available **Viscosity** 690 mPa.s (@ 30 °C)

Additional Characteristics No information available.

Potential for Dust Explosion Not applicable.

Fast or Intensely Burning

Characteristics

Volatile Percent

VOC Volume

No information available.

No Data Available

No Data Available

Flame Propagation or Burning

Rate of Solid Materials

No information available.

Non-Flammables That Could Contribute Unusual Hazards to a No information available.

Properties That May Initiate or Contribute to Fire Intensity

Not flammable; May burn but does not ignite readily.

Reactions That Release Gases or

Vapours

Fire/decomposition may produce irritating, toxic and/or corrosive fumes.

Release of Invisible Flammable

Vapours and Gases

No information available.

10. STABILITY AND REACTIVITY

General Information No dangerous reactions known.

Chemical Stability Stable at ambient temperature and under normal conditions of use.

Conditions to Avoid Avoid excessive heat for prolonged periods of time.

Materials to Avoid Incompatible/reactive with strong acids, strong bases, strong oxidizing agents and strong reducing agents.

Hazardous Decomposition

Products

No decomposition if used according to specifications. Fire/decomposition may produce irritating, toxic and/or corrosive

fumes.

Hazardous Polymerisation Will not occur.

11. TOXICOLOGICAL INFORMATION

General Information - Acute toxicity: May be harmful if swallowed.

 $\hbox{-}\,Skin\,corrosion/irritation:}\,Causes\,skin\,irritation\,[OECD\,Guideline\,404].$

Eye damage/irritation: Causes serious eye irritation [OECD Guideline 405].
 Respiratory/skin sensitisation: Not (skin) sensitising [OECD Guideline 406].

Germ cell mutagenicity: Not classified.
Carcinogenicity: Not classified.
Reproductive toxicity: Not classified.

- STOT (single exposure): No information available.

- STOT (repeated exposure): COMPONENT: Diethanolamine (CAS No. 111-42-2): May cause damage to organs through

prolonged or repeated exposure.

- Aspiration toxicity: No information available.

Acute

Ingestion Acute toxicity (Oral):

- LD50, Rat: >3,000 mg/kg bw. [OECD Guideline 401].

Other Acute toxicity (Dermal):

- LD50, Rabbit: >2,000 mg/kg bw. [Supplier's SDS].

Mutagenicity Bacterial reverse mutation assay (e.g. Ames test):

Negative (in vitro) [EU Method B.13/14].
 Chromosome aberration (Mouse):
 Negative (in vitro) [OECD Guideline 474].

Carcinogenicity Carcinogenicity (Oral):

- Mouse (feed): No effects (2 years).

Reproduction Developmental effects (Oral):

- NOAEL, Rat (feed): 1,000 mg/kg bw/day [similar to OECD Guideline 414].

Carcinogen Category None

12. ECOLOGICAL INFORMATION

Ecotoxicity Aquatic toxicity:

- LC50, Fish (Danio rerio): >4.9 mg/l (96 h).

- EC50, Crustacea (Daphnia magna): >3.2 mg/l (48 h). - ErC50, Algae (Scenedesmus subspicatus): >18.6 mg/l (72 h).

Persistence/Degradability Readily biodegradable [OECD 301].

- Biodegradation in water (Activated sludge, domestic, non-adapted): Under the test conditions, the test substance was considered to be readily biodegradable (60% degradation within 28 day) and the 10-day window criterion was met.

Mobility No information available.

Environmental Fate Toxic to aquatic life - Avoid release to the environment.

Bioaccumulation Potential No information available.

Environmental Impact No Data Available

13. DISPOSAL CONSIDERATIONS

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

Special Precautions for Land Fill No information available.

14. TRANSPORT INFORMATION

Land Transport (Australia)

ADG Code

Proper Shipping Name Coconut diethanolamine

Class No Data Available
Subsidiary Risk(s) No Data Available

No Data Available

UN NumberNo Data AvailableHazchemNo Data AvailablePack GroupNo Data AvailableSpecial ProvisionNo Data Available

Comments NON-DANGEROUS GOODS: Not regulated for LAND transport.

Land Transport (Malaysia)

ADR Code

Proper Shipping Name Coconut diethanolamine

Class No Data Available
Subsidiary Risk(s) No Data Available
No Data Available

UN NumberNo Data AvailableHazchemNo Data AvailablePack GroupNo Data AvailableSpecial ProvisionNo Data Available

Comments NON-DANGEROUS GOODS: Not regulated for LAND transport.

Land Transport (New Zealand)

NZS5433

Proper Shipping Name Coconut diethanolamine

Class No Data Available
Subsidiary Risk(s) No Data Available

No Data Available No Data Available

UN NumberNo Data AvailableHazchemNo Data AvailablePack GroupNo Data AvailableSpecial ProvisionNo Data Available

Comments NON-DANGEROUS GOODS: Not regulated for LAND transport.

Land Transport (United States of America)

US DOT

Proper Shipping Name Coconut diethanolamine

Class No Data Available
Subsidiary Risk(s) No Data Available

No Data Available

UN NumberNo Data AvailableHazchemNo Data AvailablePack GroupNo Data AvailableSpecial ProvisionNo Data Available

Comments NON-DANGEROUS GOODS: Not regulated for LAND transport.

Sea Transport

IMDG Code

Proper Shipping Name Coconut diethanolamine

Class No Data Available
Subsidiary Risk(s) No Data Available
UN Number No Data Available
Hazchem No Data Available
Pack Group No Data Available
Special Provision No Data Available
EMS No Data Available

Marine Pollutant No

Comments NON-DANGEROUS GOODS: Not regulated for SEA transport.

Air Transport

IATA DGR

Proper Shipping Name Coconut diethanolamine

Class No Data Available
Subsidiary Risk(s) No Data Available
UN Number No Data Available
Hazchem No Data Available
Pack Group No Data Available
Special Provision No Data Available

Comments NON-DANGEROUS GOODS: Not regulated for AIR transport.

National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods Classification NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods

by Road & Rail (ADG Code)

15. REGULATORY INFORMATION

General Information DIETHANOLAMINE (excluding its salts and derivatives) is listed in Schedule 5 of the SUSMP, in preparations containing 20

% or less of diethanolamine except in preparations containing 5 % or less of diethanolamine.

Poisons Schedule (Aust)

Schedule 5

Environmental Protection Authority (New Zealand)

Hazardous Substances and New Organisms Amendment Act 2015

Approval Code HSR002503

National/Regional Inventories

Australia (AIIC) Listed

Canada (DSL) Listed

Canada (NDSL) Not Listed

China (IECSC) Listed

Europe (EINECS) Listed

Europe (REACh) Not Determined

Japan (ENCS/METI) Listed

Korea (KECI) Listed

Malaysia (EHS Register) Not Determined

New Zealand (NZIoC) Listed

Philippines (PICCS) Listed

Switzerland (Giftliste 1) Not Determined

Switzerland (Inventory of Notified

Substances)

Not Determined

Taiwan (NCSR) Not Determined

USA (TSCA) Listed

16. OTHER INFORMATION

Related Product Codes CODIET1800, CODIET1801, CODIET1802, CODIET1803, CODIET1804, CODIET1805, CODIET1806,

CODIET1807, CODIET1808, CODIET1809, CODIET1810, CODIET1811, CODIET1812, CODIET1850, CODIET1856, CODIET1860,

CODIET1866, CODIET2000, CODIET2001, CODIET2002, CODIET2003, CODIET2500, CODIET3000, CODIET3010, CODIET3020, CODIET3030, CODIET3040, CODIET3050, CODIET3060, CODIET3300, CODIET3500, CODIET4000, CODIET4001, CODIET4002, CODIET4003, CODIET4004, CODIET4005, CODIET4006, CODIET4007, CODIET4008, CODIET4010, CODIET4100, CODIET4200, CODIET4300, CODIET4500, CODIET4500, CODIET5000, CODIET5001, CODIET5200, CODIET5000, CODIET5001, CODIET5200, CODIET5001, CODIET

CODIET9000, CODIET9600, CODIET9700

Revision 3

AICS Australian Inventory of Chemical Substances

atm Atmosphere

CAS Chemical Abstracts Service (Registry Number)

cm² Square Centimetres

CO2 Carbon Dioxide

COD Chemical Oxygen Demand

deg C (°C) Degrees Celcius

EPA (New Zealand) Environmental Protection Authority of New Zealand

deg F (°F) Degrees Farenheit

g Grams

g/cm3 Grams per Cubic Centimetre

g/I Grams per Litre

HSNO Hazardous Substance and New Organism

IDLH Immediately Dangerous to Life and Health

immiscible Liquids are insoluable in each other.

inHg Inch of Mercury

inH20 Inch of Water

K Kelvin

kg Kilogram

kg/m³ Kilograms per Cubic Metre

Ib Pound

LC50 LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.

LD50 LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.

Itr or L Litre

m³ Cubic Metre

mbar Millibar

mg Milligram

mg/24H Milligrams per 24 Hours

mg/kg Milligrams per Kilogram

mg/m³ Milligrams per Cubic Metre

Misc or Miscible Liquids form one homogeneous liquid phase regardless of the amount of either component present.

mm Millimetre

mmH20 Millimetres of Water

mPa.s Millipascals per Second

N/A Not Applicable

 $\mbox{\bf NIOSH}$ National Institute for Occupational Safety and Health

NOHSC National Occupational Heath and Safety Commission

OECD Organisation for Economic Co-operation and Development

Oz Ounce

PEL Permissible Exposure Limit

Pa Pascal

ppb Parts per Billion

ppm Parts per Million

ppm/2h Parts per Million per 2 Hours

ppm/6h Parts per Million per 6 Hours

psi Pounds per Square Inch

R Rankine

RCP Reciprocal Calculation Procedure

STEL Short Term Exposure Limit

TLV Threshold Limit Value

tne Tonne

TWA Time Weighted Average

ug/24H Micrograms per 24 Hours

UN United Nations

wt Weight