



# Safety Data Sheet

## Coconut diethanolamine

### Revision 3, 14/02/2023

#### 1. IDENTIFICATION

<b>Product Name</b>	<b>Coconut diethanolamine</b>
<b>Other Names</b>	Coconut diethanolamide; Coconut oil fatty acids, diethanolamide; N,N-Bis(2-hydroxyethyl) coconut oil amide; REDAMIDE CDE-LA
<b>Uses</b>	Personal care, shampoo, toiletries and detergent ingredient; foam booster and viscosity builder.
<b>Chemical Family</b>	No Data Available
<b>Chemical Formula</b>	Unspecified
<b>Chemical Name</b>	Amides, coco, N,N-bis(hydroxyethyl)
<b>Product Description</b>	No Data Available

#### Contact Details of the Supplier of this Safety Data Sheet

<b>Organisation</b>	<b>Location</b>	<b>Telephone</b>
Aurora Cleaning Supplies	F1 / 5 Bungaleen Court Dandenong South VIC 3175	03 9768 2669

#### Emergency Contact Details

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

<b>Organisation</b>	<b>Location</b>	<b>Telephone</b>
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

**Globally Harmonised System**

<b>Hazard Classification</b>	Hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)
<b>Hazard Categories</b>	Skin Corrosion/Irritation - Category 2 Serious Eye Damage/Irritation - Category 2A Acute Hazard To The Aquatic Environment - Category 2

**Pictograms**



**Signal Word** Warning

<b>Hazard Statements</b>	<b>H315</b>	Causes skin irritation.
	<b>H319</b>	Causes serious eye irritation.
	<b>H401</b>	Toxic to aquatic life.
<b>Precautionary Statements</b>	Prevention <b>P273</b>	Avoid release to the environment.
	<b>P280</b>	Wear protective gloves/eye protection/face protection.
	Response <b>P302 + P352</b>	IF ON SKIN: Wash with plenty of soap and water.
	<b>P332 + P313</b>	If skin irritation occurs: Get medical advice/attention.
	<b>P362</b>	Take off contaminated clothing and wash before reuse.
	<b>P337 + P313</b>	If eye irritation persists: Get medical advice/attention.
	<b>P391</b>	Collect spillage.
	<b>P305 + P351 + P338</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Disposal <b>P501</b>	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

<b>HSNO Classifications</b>	Health Hazards <b>6.3A</b>	Substances that are irritating to the skin
	<b>6.4A</b>	Substances that are irritating to the eye
	<b>6.9B</b>	Substances that are harmful to human target organs or systems
Environmental Hazards <b>9.1D</b>	Substances that are slightly harmful to the aquatic environment or are otherwise 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 %
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#### 4. FIRST AID MEASURES

##### *Description of necessary measures according to routes of exposure*

<b>Swallowed</b>	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.
<b>Eye</b>	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.
<b>Skin</b>	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.
<b>Inhaled</b>	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.
<b>Advice to Doctor</b>	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.
<b>Medical Conditions Aggravated by Exposure</b>	No information available.

#### 5. FIRE FIGHTING MEASURES

<b>General Measures</b>	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.
<b>Flammability Conditions</b>	Not flammable; May burn but does not ignite readily.
<b>Extinguishing Media</b>	Use dry chemical, Carbon dioxide (CO <sub>2</sub> ), foam or water spray for extinction - Do not use water jets as that may cause the fire to spread.
<b>Fire and Explosion Hazard</b>	Containers may explode when heated.
<b>Hazardous Products of Combustion</b>	Fire may produce irritating, toxic and/or corrosive fumes.
<b>Special Fire Fighting Instructions</b>	Contain runoff from fire control or dilution water - Runoff may pollute waterways.
<b>Personal Protective Equipment</b>	Wear self-contained breathing apparatus (SCBA) and chemical splash suit. SCBA and structural firefighter's uniform may provide limited protection.
<b>Flash Point</b>	194 °C [PMCC]
<b>Lower Explosion Limit</b>	No Data Available
<b>Upper Explosion Limit</b>	No Data Available
<b>Auto Ignition Temperature</b>	No Data Available
<b>Hazchem Code</b>	No Data Available

#### 6. ACCIDENTAL RELEASE MEASURES

<b>General Response Procedure</b>	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.
<b>Clean Up Procedures</b>	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.
<b>Containment</b>	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.
<b>Decontamination</b>	Following product recovery, flush area with water.

<b>Environmental Precautionary Measures</b>	Prevent entry into soils, drains and waterways.
<b>Evacuation Criteria</b>	Spill or leak area should be isolated immediately. Keep unauthorised personnel away.
<b>Personal Precautionary Measures</b>	Use personal protective equipment as required (see SECTION 8).

## 7. HANDLING AND STORAGE

<b>Handling</b>	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.
<b>Storage</b>	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).
<b>Container</b>	Keep in the original container.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>General</b>	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/m <sup>3</sup> ). - New Zealand Workplace Exposure Standard (WES): TWA = 3 ppm (13 mg/m <sup>3</sup> ); Skin absorption (skin).
<b>Exposure Limits</b>	No Data Available
<b>Biological Limits</b>	No information available.
<b>Engineering Measures</b>	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.
<b>Personal Protection Equipment</b>	- 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.
<b>Special Hazards Precautions</b>	No information available.
<b>Work Hygienic Practices</b>	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

<b>Physical State</b>	Liquid
<b>Appearance</b>	Viscous liquid
<b>Odour</b>	Light, characteristic
<b>Colour</b>	Light yellow
<b>pH</b>	>9 - 11.5
<b>Vapour Pressure</b>	No Data Available
<b>Relative Vapour Density</b>	No Data Available
<b>Boiling Point</b>	96 °C
<b>Melting Point</b>	3.8 °C
<b>Freezing Point</b>	6 °C

<b>Solubility</b>	Soluble in water
<b>Specific Gravity</b>	~1.01 (H <sub>2</sub> O = 1)
<b>Flash Point</b>	194 °C [PMCC]
<b>Auto Ignition Temp</b>	No Data Available
<b>Evaporation Rate</b>	No Data Available
<b>Bulk Density</b>	No Data Available
<b>Corrosion Rate</b>	No Data Available
<b>Decomposition Temperature</b>	No Data Available
<b>Density</b>	No Data Available
<b>Specific Heat</b>	No Data Available
<b>Molecular Weight</b>	No Data Available
<b>Net Propellant Weight</b>	No Data Available
<b>Octanol Water Coefficient</b>	No Data Available
<b>Particle Size</b>	No Data Available
<b>Partition Coefficient</b>	No Data Available
<b>Saturated Vapour Concentration</b>	No Data Available
<b>Vapour Temperature</b>	No Data Available
<b>Viscosity</b>	690 mPa.s (@ 30 °C)
<b>Volatile Percent</b>	No Data Available
<b>VOC Volume</b>	No Data Available
<b>Additional Characteristics</b>	No information available.
<b>Potential for Dust Explosion</b>	Not applicable.
<b>Fast or Intensely Burning Characteristics</b>	No information available.
<b>Flame Propagation or Burning Rate of Solid Materials</b>	No information available.
<b>Non-Flammables That Could Contribute Unusual Hazards to a Fire</b>	No information available.
<b>Properties That May Initiate or Contribute to Fire Intensity</b>	Not flammable; May burn but does not ignite readily.
<b>Reactions That Release Gases or Vapours</b>	Fire/decomposition may produce irritating, toxic and/or corrosive fumes.
<b>Release of Invisible Flammable Vapours and Gases</b>	No information available.

## 10. STABILITY AND REACTIVITY

<b>General Information</b>	No dangerous reactions known.
<b>Chemical Stability</b>	Stable at ambient temperature and under normal conditions of use.
<b>Conditions to Avoid</b>	Avoid excessive heat for prolonged periods of time.
<b>Materials to Avoid</b>	Incompatible/reactive with strong acids, strong bases, strong oxidizing agents and strong reducing agents.
<b>Hazardous Decomposition Products</b>	No decomposition if used according to specifications. Fire/decomposition may produce irritating, toxic and/or corrosive fumes.
<b>Hazardous Polymerisation</b>	Will not occur.

## 11. TOXICOLOGICAL INFORMATION

<b>General Information</b>	- Acute toxicity: May be harmful if swallowed. - Skin corrosion/irritation: Causes skin irritation [OECD Guideline 404].
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- 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

<b>Ingestion</b>	Acute toxicity (Oral): - LD50, Rat: >3,000 mg/kg bw. [OECD Guideline 401].
<b>Other</b>	Acute toxicity (Dermal): - LD50, Rabbit: >2,000 mg/kg bw. [Supplier's SDS].
<b>Mutagenicity</b>	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].
<b>Carcinogenicity</b>	Carcinogenicity (Oral): - Mouse (feed): No effects (2 years).
<b>Reproduction</b>	Developmental effects (Oral): - NOAEL, Rat (feed): 1,000 mg/kg bw/day [similar to OECD Guideline 414].
<b>Carcinogen Category</b>	None

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	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).
<b>Persistence/Degradability</b>	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.
<b>Mobility</b>	No information available.
<b>Environmental Fate</b>	Toxic to aquatic life - Avoid release to the environment.
<b>Bioaccumulation Potential</b>	No information available.
<b>Environmental Impact</b>	No Data Available

## 13. DISPOSAL CONSIDERATIONS

<b>General Information</b>	Dispose of contents/container in accordance with local/regional/national regulations.
<b>Special Precautions for Land Fill</b>	No information available.

## 14. TRANSPORT INFORMATION

### Land Transport (Australia)

ADG Code

<b>Proper Shipping Name</b>	Coconut diethanolamine
<b>Class</b>	No Data Available

<b>Subsidiary Risk(s)</b>	No Data Available
	No Data Available
<b>UN Number</b>	No Data Available
<b>Hazchem</b>	No Data Available
<b>Pack Group</b>	No Data Available
<b>Special Provision</b>	No Data Available
<b>Comments</b>	NON-DANGEROUS GOODS: Not regulated for LAND transport.

#### Land Transport (Malaysia)

ADR Code

<b>Proper Shipping Name</b>	Coconut diethanolamine
<b>Class</b>	No Data Available
<b>Subsidiary Risk(s)</b>	No Data Available
	No Data Available
<b>UN Number</b>	No Data Available
<b>Hazchem</b>	No Data Available
<b>Pack Group</b>	No Data Available
<b>Special Provision</b>	No Data Available
<b>Comments</b>	NON-DANGEROUS GOODS: Not regulated for LAND transport.

#### Land Transport (New Zealand)

NZS5433

<b>Proper Shipping Name</b>	Coconut diethanolamine
<b>Class</b>	No Data Available
<b>Subsidiary Risk(s)</b>	No Data Available
	No Data Available
<b>UN Number</b>	No Data Available
<b>Hazchem</b>	No Data Available
<b>Pack Group</b>	No Data Available
<b>Special Provision</b>	No Data Available
<b>Comments</b>	NON-DANGEROUS GOODS: Not regulated for LAND transport.

#### Land Transport (United States of America)

US DOT

<b>Proper Shipping Name</b>	Coconut diethanolamine
<b>Class</b>	No Data Available
<b>Subsidiary Risk(s)</b>	No Data Available
	No Data Available
<b>UN Number</b>	No Data Available
<b>Hazchem</b>	No Data Available
<b>Pack Group</b>	No Data Available
<b>Special Provision</b>	No Data Available
<b>Comments</b>	NON-DANGEROUS GOODS: Not regulated for LAND transport.

#### Sea Transport

IMDG Code

<b>Proper Shipping Name</b>	Coconut diethanolamine
<b>Class</b>	No Data Available
<b>Subsidiary Risk(s)</b>	No Data Available
<b>UN Number</b>	No Data Available

<b>Hazchem</b>	No Data Available
<b>Pack Group</b>	No Data Available
<b>Special Provision</b>	No Data Available
<b>EMS</b>	No Data Available
<b>Marine Pollutant</b>	No
<b>Comments</b>	NON-DANGEROUS GOODS: Not regulated for SEA transport.

#### Air Transport

IATA DGR

<b>Proper Shipping Name</b>	Coconut diethanolamine
<b>Class</b>	No Data Available
<b>Subsidiary Risk(s)</b>	No Data Available
<b>UN Number</b>	No Data Available
<b>Hazchem</b>	No Data Available
<b>Pack Group</b>	No Data Available
<b>Special Provision</b>	No Data Available
<b>Comments</b>	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)

<b>Dangerous Goods Classification</b>	NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)
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### 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

<b>Australia (AICS)</b>	Listed
<b>Canada (DSL)</b>	Listed
<b>Canada (NDSL)</b>	Not Listed
<b>China (IECSC)</b>	Listed
<b>Europe (EINECS)</b>	Listed
<b>Europe (REACH)</b>	Not Determined
<b>Japan (ENCS/METI)</b>	Listed
<b>Korea (KECI)</b>	Listed



<b>Malaysia (EHS Register)</b>	Not Determined
<b>New Zealand (NZIoC)</b>	Listed
<b>Philippines (PICCS)</b>	Listed
<b>Switzerland (Giftliste 1)</b>	Not Determined
<b>Switzerland (Inventory of Notified Substances)</b>	Not Determined
<b>Taiwan (NCSR)</b>	Not Determined
<b>USA (TSCA)</b>	Listed

## 16. OTHER INFORMATION

<b>Related Product Codes</b>	CODIET0700, 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, CODIET4400, CODIET4500, CODIET4600, CODIET5000, CODIET5001, CODIET5200, CODIET6000, CODIET6100, CODIET6500, CODIET6600, CODIET8000, CODIET8001, CODIET9000, CODIET9600, CODIET9700
<b>Revision</b>	3
<b>Revision Date</b>	14/02/2023
<b>Key/Legend</b>	<p>&lt; Less Than &gt; Greater Than  <b>AICS</b> Australian Inventory of Chemical Substances  <b>atm</b> Atmosphere  <b>CAS</b> Chemical Abstracts Service (Registry Number)  <b>cm<sup>2</sup></b> Square Centimetres  <b>CO<sub>2</sub></b> Carbon Dioxide  <b>COD</b> Chemical Oxygen Demand  <b>deg C (°C)</b> Degrees Celcius  <b>EPA (New Zealand)</b> Environmental Protection Authority of New Zealand  <b>deg F (°F)</b> Degrees Fahrenheit  <b>g</b> Grams  <b>g/cm<sup>3</sup></b> Grams per Cubic Centimetre  <b>g/l</b> Grams per Litre  <b>HSNO</b> Hazardous Substance and New Organism  <b>IDLH</b> Immediately Dangerous to Life and Health  <b>immiscible</b> Liquids are insoluble in each other.  <b>inHg</b> Inch of Mercury  <b>inH<sub>2</sub>O</b> Inch of Water  <b>K</b> Kelvin  <b>kg</b> Kilogram  <b>kg/m<sup>3</sup></b> Kilograms per Cubic Metre  <b>lb</b> Pound  <b>LC50</b> 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.  <b>LD50</b> 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.  <b>ltr</b> or <b>L</b> Litre  <b>m<sup>3</sup></b> Cubic Metre  <b>mbar</b> Millibar  <b>mg</b> Milligram  <b>mg/24H</b> Milligrams per 24 Hours  <b>mg/kg</b> Milligrams per Kilogram  <b>mg/m<sup>3</sup></b> Milligrams per Cubic Metre  <b>Misc</b> or <b>Miscible</b> Liquids form one homogeneous liquid phase regardless of the amount of either component present.  <b>mm</b> Millimetre  <b>mmH<sub>2</sub>O</b> Millimetres of Water  <b>mPa.s</b> Millipascals per Second</p>

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**N/A** Not Applicable

**NIOSH** National Institute for Occupational Safety and Health

**NOHSC** National Occupational Health 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