

## Material Safety Data Sheet Palm Kernel Diethanolamide

### Section 1: Chemical Product and Company Identification

Product Name : Palm Kernel Diethanolamide  
Chemical Formula :  $\text{CH}_3(\text{CH}_2)_n\text{C}(=\text{O})\text{N}(\text{CH}_2\text{CH}_2\text{OH})_2$   
Company Identification : Tradeasia International Pte Ltd  
Email : contact@chemtradeasia.com

### Section 2: Composition and Information on Ingredients

Composition:

Name	CAS#	% by Weight
Palm Kernel Diethanolamide	68603-42-9	> 82
Glycerine	58-81-5	< 10
Diethanolamine	111-42-2	< 7

Toxicological Data on Ingredients: Not applicable.

### Section 3: Hazards Identification

**European Hazard classification:** Irritant

**Potential Health Effects:**

**Eye Contact** – Moderate to severe irritation to the eyes

**Skin Contact** – Slight to moderate irritation to skin

**Inhalation** – Slightly irritating to respiratory tract (including mucous membranes, throat and lungs)

**Ingestion** – Moderately corrosive to mucous membranes of throat

**Physical / Chemical Hazards:** Not available.

**Environmental Hazards:** Readily and rapidly degradable

### Section 4: First Aid Measures

**General:** In all cases of doubt, or when symptoms persist, seek medical attention.

**Eye Contact:** Wash out with plenty of water. Get medical attention if any sensations persist.

**Skin Contact:** Remove contaminated clothing. Wash skin thoroughly with plenty of water. Seek medical attention if necessary.

**Inhalation:** Remove from contaminated area immediately; if difficulty in breathing, administer oxygen. Seek immediate medical attention.

**Ingestion:** Contact a doctor or the poison information centre immediately. Do not induce vomiting. Rinse mouth and then give small and frequent amount of water to drink. Transport to a hospital or doctor

### Section 5: Fire and Explosion Data

**General Measures:** Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move fire exposed containers from fire area if it can be done without risk.

**Flammability Conditions:** Product is a non-flammable Liquid.

**Auto-Ignition Temperature:** Not available.

**Flash Points:** Approx. 194°C

**Flammable Limits:** Not available.

**Hazardous Products of Combustion:** On combustion or on thermal decomposition (following the evaporation of water) releases nitrogen oxides (NO<sub>x</sub>) and carbon oxides (CO + CO<sub>2</sub>).

**Fire Fighting Media and Instructions:** Use water spray, dry chemical or foam extinguishing agents. Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves).

**Special Fire Fighting Equipment:** Firefighters should use self-contained breathing apparatus and full protective clothing.

**Special Fire Fighting Instructions:** Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. All combustion residues and contaminated water from fire-fighting should be disposed of according to regulations.

**Fire and Explosion Hazards:** Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

**Hazardous decomposition/combustion products:** Thermal decomposition produces oxides of carbon.

## Section 6: Accidental Release Measures

**General Response Procedure:** Avoid accidents, clean up immediately. Increase ventilation. Avoid walking through spilled product as it may be slippery when spilt. Use clean, non-sparking tools and equipment. Shut off all possible sources of ignition.

**Environmental Precautions:** Do NOT let product reach drains or waterways. If product does enter a waterway, advise the Environmental Protection Authority or your local Waste Management.

**Procedure for Spill / Leak Clean-up:** Soak up spilled product using absorbent non-combustible material such as sand or soil. Avoid using sawdust or cellulose. When saturated, collect the material and transfer to a suitable, labelled chemical waste container and dispose of promptly. Wash off with plenty of water.

## Section 7: Handling and Storage

**Handling:** Ensure an eye bath and safety shower are available and ready for use. Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling. Take precautionary measures against static discharges by bonding and grounding equipment. Avoid contact with eyes, skin and clothing. Do not inhale product vapours.

**Storage:** Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect against physical damage. Store away from incompatible materials as listed in section 10. This product is classified as a 'C2' Combustible Liquid for the purpose of storage and handling in accordance with the requirements of AS1940.

**Container:** Store in original packaging as approved by manufacturer.

## Section 8: Exposure Controls/Personal Protection

**Engineering Measures:** 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. Adequate ventilation should be provided so that exposure limits are not exceeded.

**Personal Protection Equipment:** RESPIRATOR: Use a respirator with an approved filter if a risk assessment indicates this is necessary (AS1715/1716). EYES: Wear safety glasses (AS1336/1337). HANDS: Where there is a risk of contacts with hands, use appropriate gloves (AS2161). CLOTHING: Long-sleeved protective clothing and safety footwear (AS3765/2210).

**Work Hygienic Practices:** Wash hands before breaks and immediately after handling the product.

## Section 9: Physical and Chemical Properties

Physical state and appearance	: Viscous Liquid
Odor	: Odorless.
Taste	: Not available.
Molecular Weight	: Not available.
Color	: Yellow
pH	: 9 - 12
Boiling Point	: Not available.
Melting Point	: Not available.
Flash Point	: 194°C PMCC
Critical Temperature	: Not available.
Specific Gravity	: 1.01 (at 25°C)
Vapor Pressure	: Not applicable.
Vapor Density	: Not available.
Volatility	: Not available.
Odor Threshold	: Not available.
Water/Oil Dist. Coeff.	: Not available.
Viscosity (Dynamic)	: 700 mPas
Dispersion Properties	: Not available.

## Section 10: Stability and Reactivity Data

**Stability:** Product is stable under normal conditions of use, storage and temperature.

**Conditions of Instability:** Excessive heat for prolonged periods of time.

**Incompatibility with various substances:** Avoid strong acids, strong bases, strong oxidizing agents and strong reducing agents

**Hazardous Decomposition Products:** On combustion or on thermal decomposition (following the evaporation of water) releases nitrogen oxides (NO<sub>x</sub>) and carbon oxides (CO + CO<sub>2</sub>).

**Polymerization:** Will not occur.

## Section 11: Toxicological Information

**Acute Toxicity: Oral LD50:** LD50 > 2000 mg/kg – rat. Not classified as harmful if swallowed

**Irritation: Skin:** Primary skin irritation; irritating (OECD – method 404). **Eye:** Primary eye irritation strongly irritating.

**Chronic Toxicity:** No additional adverse health effects noted.

## Section 12: Ecological Information

**Ecotoxicity:**

**Fish** - LC50 – 96 h : 2.4mg/l – Oncorhynchus mykiss (rainbow trout); Method: OECD Test Guideline 203

**Algae** - ErC50 – 72 h : 2.1 mg/l – Desmodesmus subspicatus (green algae) ; Method: OECD Test Guideline 201

**Bacteria** - EC10 – 18 h : 29.8mg/l – Pseudomonas putida.

**Daphnia and other aquatic invertebrates** - EC50 – 48 h : 3.2 mg/l – Daphnia magna (Water flea); Method: OECD Test Guideline 202

**Persistence / Degradability:** Readily biodegradable; Method: OECD Test Guideline 301 B

**Mobility:** No information available on mobility for this product.

**Environmental Fate:** Avoid contaminating waterways, drains and sewers.

**Bioaccumulation Potential:** Easily biodegradable. This substance is not considered to be persistent, bioaccumulating and toxic (PBT), and not considered to be very persistent and very bioaccumulating (vPvB).

**Environmental Impact:** No data available.

### Section 13: Disposal Considerations

**Waste Disposal:** Dispose of in accordance with all local, state and federal regulations. All empty packaging should be disposed of in accordance with Local, State, and Federal Regulations or recycled/reconditioned at an approved facility. Reuse or recycle following washing.

**Special Precautions for Land Fill:** Contact a specialist disposal company or the local waste regulator for advice.

### Section 14: Transport Information

**U.S DOT:** Not regulated for transport Not hazardous according to RID/ADR, GGVs/GGVE, ADNR, IMDG, ICAO-TI/IATA-DGR.

### Section 15: Other Regulatory Information

**EU Classification:** Irritant.

### Section 16: Other Information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall Tradeasia International Pte. Ltd. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Tradeasia International Pte. Ltd. has been advised of the possibility of such damages.