



9/1 Soi G 12 Eastern
Industrial Estate, Map Ta
Phut, Muang Rayong
Tel. 66 38994000
Fax 66 38977111

Safety Data Sheet

Trade name: PAKAMID-D
Issued date: 23 November 2017

SDS No.008
Revision 1.0

1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

Product name: PAKAMID-D
Substance name: Palm Kernelamide DEA

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

Relevant identified uses of the substance or mixture: Use in personal care and homecare industry as a thickening and foaming agent for shampoos, body washes, hand soaps, and liquid dish-wash.

Details of the supplier of the safety data sheet

Address:

TOC Glycol Company Limited

9/1 Soi G12, Hemaraj Eastern Industrial Estate, Pakorn Songkhraorat Road, Tambon Maptaphut, Amphoe Mueang, Rayong, Rayong 21150, Thailand

Telephone no.+66(0)3899-4000 Ext. 7095

Fax no.+66(0)3892-5988

Emergency telephone

For medical advice (in Thailand):

+66(0)38994000 Ext. 7095

In case of transport incidents and other emergencies (advice in Thailand):

+66(0)38994000 Ext. 7095

Advice on Safety Data Sheet:

Chatree.k@pttggroup.com

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 (CLP)

Skin Irrit. 2; H315

Eye Dam. 1; H318 Causes serious eye damage

Aquatic Chronic 2; H411



9/1 Soi G 12 Eastern
Industrial Estate, Map Ta
Phut, Muang Rayong
Tel. 66 38994000
Fax 66 38977111

Safety Data Sheet

Trade name: PAKAMID-D
Issued date: 23 November 2017

SDS No.008
Revision 1.0

Label elements

Labeling according to Regulation (EC) No 1272/2008 (CLP Regulation)

Product identifier

CAS No. 68155-06-6 (Amides, C12-18, N,N-bis(hydroxyethyl))

Hazard pictograms:

GHS05: Corrosion



Signal word:

Danger

Hazard statements

H315 Causes skin irritation

H318 Causes serious eye damage

Precautionary statements

P280 Wear protective gloves and eye/face protection.

P273 Avoid release to the environment.

P264 Wash with plenty of water and soap thoroughly after handling.

P303 + P352 IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

P391 Collect spillage.

P362 Take off contaminated clothing and wash it before reuse.

P501 Dispose of contents/container to hazardous or special waste collection point.



9/1 Soi G 12 Eastern
Industrial Estate, Map Ta
Phut, Muang Rayong
Tel. 66 38994000
Fax 66 38977111

Safety Data Sheet

Trade name: PAKAMID-D
Issued date: 23 November 2017

SDS No.008
Revision 1.0

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance / product identification

Substance name: Palm kernel diethanolamide (Amides, C12-18, N,N-bis(hydroxyethyl))

CAS no.: 68155-06-6

EC no.: 268-934-3

| Chemical name | Concentration (%) | CAS Number |
|-------------------------|-------------------|------------|
| 1. Palm Kernelamide DEA | 90 - 100 % | 68155-06-6 |
| 2. Diethanolamine | 0 - 5 % | 111-42-2 |

4. FIRST AID MEASURES

After inhalation:

Not relevant

After skin contact:

Immediately remove contaminated clothing and shoes. Under a safety shower, flush skin thoroughly with large amounts of running water. Discard or decontaminate clothing and shoe before reuse.

After eye contact:

Immediately flush eyes with large amounts of running water. Obtain medical attention immediately.

After swallowing:

Rinse mouth. If person is conscious and can swallow, immediately give two glasses of water (16 oz.)

Other Instruction:

None.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Use water spray, dry chemical, Foam or carbon dioxide to extinguish flames. Use water spray to cool fire-exposed containers. Water or foam may cause frothing.

Special risks:

None

Special protective equipment for fire-fighter:



9/1 Soi G 12 Eastern
Industrail Estrate, Map Ta
Phut, Muang Rayong
Tel. 66 38994000
Fax 66 38977111

Safety Data Sheet

Trade name: PAKAMID-D
Issued date: 23 November 2017

SDS No.008
Revision 1.0

Wear full protective clothing and positive pressure breathing apparatus. Approach fire from upwind to avoid hazardous vapors and toxic decomposition product.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Remove persons to safety.

Environmental precautions

Do not discharge into the subsoil/soil. Do not discharge into the drains/surface waters/groundwater.

Methods for cleaning up/taking up

Pick up with absorbent material. Send in suitable containers for recovery or disposal. Dilute with plenty of water. Dispose of absorbed material in accordance with the regulations.

7. HANDLING AND STORAGE

Handling:

Precautions for safe handling

Minimum feasible handling temperatures should be maintained. Eye wash should be available nearby when this product is handled or used.

Storage:

Requirement for storage rooms and vessels

Requirements for storage rooms and vessels. Use suitable materials for containers: carbon steel, stainless steel and HDPE containers. Only use containers that are approved specifically for the substance/product. Avoid direct sunlight, outdoor area and lower or higher temperature, suitable temperature is 20-30 degree Celsius. The product condition is able to develop a solid-like paste if store under low temperature limit which is reversible by reheating. Protect to store above high temperature limit because the product can be degraded.

Further information on storage conditions

Periods of exposure to high temperatures should be minimized. Avoid directly contact with sunlight and higher temperature. Keep container tightly closed without air contamination. Water contamination should be avoided.



9/1 Soi G 12 Eastern
Industral Estate, Map Ta
Phut, Muang Rayong
Tel. 66 38994000
Fax 66 38977111

Safety Data Sheet

Trade name: PAKAMID-D
Issued date: 23 November 2017

SDS No.008
Revision 1.0

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Exposure limit for the total product:

Diethanolamine: 2 mg/m³ (0.46 ppm) TWA-ACGIH: skin notation

Exposure controls:

Personal protective equipment

Respiratory protection Airborne concentrations should be kept to lowest levels possible. If vapor, mist or dust is generated and the occupational exposure limit of the product, or any component of the product, is exceeded, use appropriate NIOSH approved air purifying or air supplied respirator after determining the airborne concentration of the contaminant. Air supplied respirators should always be worn when airborne concentration of the contamination or oxygen content is unknown.

Eye /Face protection avoid eye contact. Chemical type goggles should be worn. Do not wear contact lens

Skin protection Protective clothing such as coveralls or lab coats must be worn. Launder or dry-clean when soiled. Gloves resistant to chemicals and petroleum distillates should be worn. Exposed workers should wash exposed skin several times daily with soap and water.

9. Physical and chemical properties

Form: liquid
Color: yellow
Odor: characteristic



9/1 Soi G 12 Eastern
Industrail Estrate, Map Ta
Phut, Muang Rayong
Tel. 66 38994000
Fax 66 38977111

Safety Data Sheet

Trade name: PAKAMID-D
Issued date: 23 November 2017

SDS No.008
Revision 1.0

| | |
|-----------------------------|----------------|
| pH value (1% solution) | 8-11 |
| Melting temperature | -5 to +10 °C |
| Boiling temperature | >120 °C |
| Flash point, PMCC | 170 °C |
| Flammable limits lower | Not determined |
| upper | Not determined |
| Vapor pressure (37.8 °C) | 0.2 psi |
| Vapor Density (20 °C) | N/A |
| Solubility in water(20 °C) | Dispersible |
| Specific Gravity: | 0.95 – 0.99 |

10. STABILITY AND REACTIVITY

| | |
|-------------------------------------|-------------------------------------------------------|
| Reactivity: | Non-hazardous reaction if proper storage and handling |
| Chemical stability: | Product is stable if proper storage and handling |
| Possibility of hazardous reactions: | None |
| Condition to avoid: | See section 7 Handling and storage for information |
| Incompatible materials: | See section 7 Handling and storage for information |
| Hazardous decomposition products: | None |

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

LD50 (oral, rat): >5,000 mg/kg body weight

LD50 rabbit (dermal): > 2,000 mg/kg

Irritation effect:

Skin contact: No irritation expected when used according direction.

Eye contact: Primary eye irritation.



9/1 Soi G 12 Eastern
Industrail Estrate, Map Ta
Phut, Muang Rayong
Tel. 66 38994000
Fax 66 38977111

Safety Data Sheet

Trade name: PAKAMID-D
Issued date: 23 November 2017

SDS No.008
Revision 1.0

Sensitization:

Not applicable

Mutagenicity:

Mutagenicity test according to Ames : Negative

Carcinogenicity:

Not applicable

12. ECOLOGICAL INFORMATION

This product is not expected to harm the environment when used according to direction.

Persistence and Biodegradability:

Not determined

Potential to Bioaccumulate:

Not expected to be bioaccumulation.

Remark:

None

13. DISPOSAL CONSIDERATIONS

Waste disposal method:

Special waste incineration with the approval of responsible local authority.

Remark:

None.



9/1 Soi G 12 Eastern
Industrail Estrate, Map Ta
Phut, Muang Rayong
Tel. 66 38994000
Fax 66 38977111

Safety Data Sheet

Trade name: PAKAMID-D
Issued date: 23 November 2017

SDS No.008
Revision 1.0

14. TRANSPORT INFORMATION

DOT:

Properly shipping name:

Not regulated for drums. For larger containers, consult MSDS and shipping papers for proper shipping description.

Hazard Class:

Not regulated Identification number: Not regulated

Packing group:

Not regulated

Label required:

Not regulated

IMDG

Not regulated

ICAO

Not regulated

15. Regulatory information

International regulation:

Symbols of danger : Xi Irritation

16. Other information

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our product about safety requirements and is not intended to guarantee any particular property.