

## MATERIAL SAFETY DATA SHEET




### 1. Chemical Product and Company Identification

- a. Product name: **Dimer Acid**
- b. Recommended use of the chemical and restrictions on use: Chemical intermediate
- c. Supplier: **Wilmar (China) Oleo Co., Ltd**  
Customer Service Address: Floor 7, Arawana Building, No. 1379 Bocheng Road,  
Pudong New District, Shanghai, China 200126
- d. Manufacturing Site: - **Jiangxi Yichun Yuanda Chemical Co., Ltd**  
Industrial Avenue, Yuanzhou Pharmaceutical Park, Yichun City,  
Jiangxi Prov China 336000  
- **Wilmar Yuanda Biotech Taixing Co., Ltd**  
Tongjiang road, Taixing Economic Development Zone Taixing City  
Jiangsu Prov China 225404

Emergency contact: Nancy Hu  
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### 2. Hazards Identification

- a. Hazard classification: H315 2 skin irritation
- b. Label elements including precautionary statements
- Pictograms  

  - Signal words: Warning
  - Hazard statements: Causes skin irritation
  - Precautionary statements:  
Wear protective gloves, protective clothing, eye protection, face protection.  
IF ON SKIN: Wash with plenty of soap and water.  
If skin irritation occurs: Get medical advice and attention.  
Wash hands thoroughly after handling.  
Take off contaminated clothing and wash before reuse.
- c. Other hazards which do not result in classification (e.g. dust explosion hazard) : None.

### 3. Composition/Information on Ingredients

Product Description: Polymers of plant fatty acids  
Product Code: YD-17, YD-19, YD-22  
Formula: N/A

Chemical name	Common name	CAS No	EINECS No	Content (%)
Fatty acids, C18-unsatd., trimers	Trimer Acid	68937-90-6	500-239-5	20 max
Fatty acids, C18-unsatd., dimers	Dimer Acid	61788-89-4	500-148-0	75 min
Fatty acids, C16-18 and C18-unsatd., branched and linear	Monomer Acid	68955-98-6	273-295-9	5 max

#### 4. First-aid Measures

- a. Eye contact  
Use face shield. Wash eyes with plenty of water, obtain medical help if necessary.
- b. Skin contact  
Use hand gloves. Remove contaminated clothing, flush skin with water or shower, and obtain medical help if necessary.
- c. Inhalation  
Sore throat, cough. Use self-contained breathing equipment if in confined place. Remove into fresh air. If suffocation is serious, obtain medical help.
- d. Ingestion  
Sore throat, abdominal pain. Drink plenty of water, obtain medical help if necessary.
- e. Most important acute and delayed symptoms/effects  
None
- f. First aid and notes for physicians: Not available

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#### 5. Fire Fighting Measures

- a. Suitable (and unsuitable) extinguishing media  
Use dry powder, water mist, foam, carbon dioxide for extinguishing.
- b. Specific hazards arising from the chemical (e.g. hazardous combustion products)  
Irritating and highly toxic gases may be generated by thermal decomposition or combustion.
- c. Special protective equipment and precautions for fire-fighters  
Wear a self-containing breathing apparatus and full protective gear.



#### 6. Accidental Release Measures

- a. Measures required for personal protection and protective equipment  
Use rubber gloves, air respirator, goggles, safety shoes and lab coat. Remove contaminated clothing and wash hands between breaks and at end of duty hours. Locate eye washes and emergency showers in all work and storage areas.
- b. Measures required for environment protection: Not available
- c. Clean-up and removal method  
Remove sources of ignition, ventilate area and collect leakage in sealable containers. Wash site with sodium bicarbonate solution / soda ash.

#### 7. Handling and Storage

- a. Precautions for safe handling  
Use leak-proof and sealed bags. Store on pallets in well ventilated dry locations at ambient temperature away from direct sunlight. Always work safely around open hatches on bulk tanks. The low density makes flotation difficult for immersed person.
- b. Conditions for safe storage (including incompatibilities)  
Keep in a cool and dry place, avoid extreme heat and cold. Avoid direct fire, strong alkalis, strong oxidizers and water. Store in clean, dry preferably stainless steel vessels. In bulk, store at about 10 deg C under melting point or ambient. Temperature higher than necessary degrades quality at rate dependent on time and temperature of exposure.

#### 8. Exposure Controls and Personal Protective Equipment

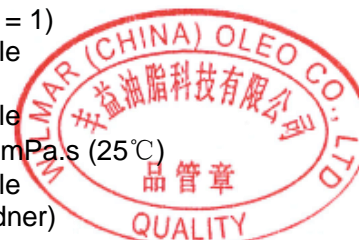
- a. Exposure limits of the chemical substance, biological exposure limits and etc.



- None established.
- b. Appropriate engineering controls  
Use normal precautionary measures for handling chemicals.
- c. Personal protective equipment
- Protection of respiratory system : Wear air respirator
  - Eye protection: Wear goggles
  - Hand protection : Wear protective gloves
  - Body protection: Wear protective clothing, safety shoes

## 9. Physical and Chemical Properties

a. Appearance (physical state, color, etc.):	Yellow or amber viscous liquid(20°C)
b. Odor:	Odorless
c. Odor threshold:	Not available
d. pH:	Not available
e. Melting point/freezing point:	-18~-12°C
f. Initial boiling point and boiling range:	>200°C
g. Flash point:	>288°C
h. Evaporation rate:	Negligible
i. Flammability (solid, gas):	Not flammable
j. Upper/lower flammable or explosive limits:	Not available
k. Vapor pressure:	0 - 0.029Pa@25°C
l. Solubility:	> 0 - < 0.12 mg/L at 20°C, pH 2
m. Vapor density	Not available
n. Specific gravity:	0.95(Water = 1)
o. Partition coefficient : n-octanol/water	Not available
p. Auto-ignition temperature:	>250 °C
q. Decomposition temperature	Not available
r. Viscosity:	5500-9500 mPa.s (25°C)
s. Molecular weight:	Not available
t. Colour:	9 max(Gardner)
u. Density, g/ml at 80 °C::	950 Kg/m <sup>3</sup>
v. Bulk density (20 °C):	Not available
w. Log P octanol / water:	None
x. Volatile Fraction by Weight:	Negligible
y. Softening Point:	Not available



## 10. Stability and Reactivity

- a. Chemical stability : Stable at room temperature in closed containers under normal storage and handling conditions.
- b. Possibility of hazardous reactions: Not available
- c. Conditions to avoid (e.g. static discharge, shock, vibration, etc.): Incompatible materials, dust generation, excess heat.
- d. Incompatible materials: Oxidizing agents.
- e. Hazardous decomposition products  
Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide, acrid smoke and fumes.

## 11. Toxicological Information

### a. Information on the likely routes of exposure

- (Respiratory system): Not available
  - (Oral): Not available
  - (Eye · skin) : Irritation to skin and eyes.
- b. Delayed and immediate effects and chronic effects from short or long term exposure
- Acute toxicity (All routes of possible exposure shall be mentioned.) : None
  - Skin corrosion/irritation: Skin irritation
  - Serious eye damage/eye irritation: Eye irritation
  - Respiratory sensitization: None
  - Skin sensitization: None
  - Carcinogenicity: None
  - Germ cell mutagenicity: None
  - Reproductive toxicity: None
  - Specific target organ toxicity (single exposure): None
  - Specific target organ toxicity (repeated exposure): None
  - Aspiration hazard: None
- c. Numerical measures of toxicity (acute toxicity estimation (ATE), etc.): None



### 12. Effects on the Environment

- a. Aquatic and terrestrial ecotoxicity: Product should not get into water bodies without treatment.
- b. Persistence and degradability: The product is not readily biodegradable.
- c. Bioaccumulation: Not available
- d. Mobility in soil: Not available
- e. Other adverse effects: Not available
- f. Acute fish toxicity: Not available
- g. Chronic bacteria toxicity: Not available



### 13. Disposal Considerations

- a. Disposal methods: Environmental recycle
- b. Precautions for disposal (including the disposal method of contaminated containers and packages)  
Product and packaging should be disposed off in accordance with the local, state and federal regulations.

### 14. Transport Information

- a. UN number: Not available
- b. UN proper shipping name: Not available
- c. Transport hazard classes: Not available
- d. Packing group, if applicable: Not available
- e. Marine pollutant (yes/no): no
- f. Information on any special precautions, which a user needs to be aware of, or needs to comply with in connection with transport  
Not a hazardous material according to RID/ADR, GGVS/GGVE, ADN, IMDG-Code, ICAO-TI/IATA-DGR.

### 15. Regulatory Information

- a. Industrial Safety and Health Law: Not available

b. Toxic Chemical Control Law: Not available

c. Dangerous Substance Safety Management Law: Not available

d. Wastes Management Law: Not available

e. Other regulations in domestic and foreign countries

Observe prescribed Federal, State and Local measures for dealing with chemicals listed on EINECS (EU), TSCA-CSI (USA), DSL (Canada), AICS (Australia), ENCS (Japan), ECL (Korea), PICCS (the Philippines) and IECSC (China).



### 16. Other Information

a. Sources of reference materials

Certification for Safe Transport of Chemical Goods

Out-source reference materials

b. The first date of preparation: 2019-02-01

c. Number of revision times and the latest revision date:

0 version time and the latest revision date: -

d. Others

This information presented here is believed to be accurate and pertains only to the product when stored in a sealed condition.

The MSDS was updated in accordance to Globally Harmonised System (GHS) guidelines.

As prescribed above. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product. Manufacturers shall in no way be liable for any claims, losses and damages of any third party, or for lost profits, or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, from the use of this product.

