



# PT DUA KUDA INDONESIA

## MATERIAL SAFETY DATA SHEET

### STEARIC ACID

#### SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY

##### 1.1 Product Identifier

Product Type : Mixture  
Product Name : Stearic Acid  
Synonyms : 1-Heptadecanecarboxylic Acid; Octadecanoic Acid; Stearophanic Aci  
Formula : C18H36O2  
CAS Number : 57-11-4

##### 1.2 Recommended and restricted uses of the substance or mixture

Recommended uses : Industrial, lubricants, personalcare, cleaners, detergents, soap, textile additives, rubber additives  
Restricted uses : None known

##### 1.3 Company Identification

Company Name : PT Dua Kuda Indonesia  
Company address : KBN Marunda Jl. Madiun Blok C.211-C.13 Jakarta Utara, Indonesia  
Company telephone : 021-44853559

##### 1.4 Emergency Telephone Number

Emergency Number : 800-424-9300  
For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident, call CHEMTREC-Day or Night

#### SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

##### 2.1 Substance

Chemical name	CAS Number	%	Health Hazard
Not applicable			

##### 2.2 Mixtures

Chemical name	CAS Number	%	Health Hazard
Palmitic acid	57-10-3	55-59	None
Stearic acid	57-11-4	40-44	None
Miristic acid	544-63-8	0-1	None
Arachidic acid	506-30-9	0-1	None

#### SECTION 3: HAZARDS IDENTIFICATION

##### 3.1 Classification of the substance or mixture



# PT DUA KUDA INDONESIA

Classification (GHS-US): Not classified

## 3.2 Label Elements

GHS-US Labeling : Not applicable

## 3.3 Other Hazards

No additional information available

## 3.4 Unknown Acute Toxicity (GHS-US)

No data available

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of First Aid Measures

General	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible)
Inhalation	: Remove the victim into fresh air. Observe victim's breathing. If breathing is labored seek immediate medical attention.
Skin contact	: Wash with soap and water. If irritation develops, seek medical attention. Launder contaminated clothing.
Eye contact	: Rinse immediately with plenty of water for 15 minutes. Remove contact lenses if present and easy to do. If irritation occurs, seek immediate medical (ophthalmologist) attention.
Ingestion	: Rinse mouth with plenty of water. For ingestion of large quantities seek immediate medical attention. Do not induce vomiting. Contact poison control center

### 4.2 Most important symptoms and effect, both acute and delayed

Symptoms after inhalation	: May experience dizziness and headache.
	: Mild irritation of the nose and throat may occur
Symptoms after skin contact	: Mild irritation of the skin may occur.
Symptoms after eye contact	: Mild irritation of the eye tissue may occur
	: May cause corneal inflammation
Symptoms after ingestion	: Mild tingling of the tongue and mouth.
	: May cause gastrointestinal irritation, nausea and vomiting.

### 4.3 Indication of any immediate medical attention and special treatment needed



## PT DUA KUDA INDONESIA

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Treatment after inhalation	: If Breathing is labored seek immediate medical attention
Treatment after skin contact	: If skin irritation occurs seek immediate medical attention
Treatment after eye contact	: If eye irritation occurs seek immediate ophthalmologist attention
Treatment after ingestion	: If ingestion of a large quantity seek immediate poison control center

### SECTION 5: FIRE-FIGHTING MEASURES

#### 5.1 Extinguishing media

Suitable media : Carbon dioxide, alcohol resistant foam and water spray

Unsuitable media : None known

#### 5.2 Specific hazards arising from the substance or mixture

Direct fire hazard : No flammable

Indirect fire hazard : Exposure to temperature above the flash point (196°C)

Explosive hazard : Exposure to temperature above the flash point (196°C)

Combustion product : Carbon dioxide and carbon monoxide

#### 5.3 Special protective equipment and precautions for fire-fighters

Protective equipment : Full protective clothing

: Self contained breathing apparatus

Precautions : No additional information available

Emergency response guide : Not a hazardous material

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Mixture is not hazardous. If mixture is a hot mist or dust, stay upwind

Protective equipment : Wear rubber gloves, rubber boots, face shield and chemical hazard suit. If material is a hot mist or dust wear dust mask or self contained breathing apparatus.

Emergency procedures : mark the spill area with hazard tape or cones. Contain the hot liquid spill area with suitable absorbent. Keep away from streams, rivers and lakes. If mixture is a hot mist or dust, alert immediate neighborhood to close windows and doors. Contain and dissipate hot mist or dust via spraying with water.

#### 6.2 Environmental precautions



## PT DUA KUDA INDONESIA

Precautions : Keep out streams, rivers and lakes. Mixture is regulated as oil under the clean water Act. Abide by all laws per this regulation.

### 6.3 Method and materials for containment and cleaning up

For containment: Contain and collect as any solid

Method for cleaning up: Clear up spills immediately and dispose of waste safely

## SECTION 7: HANDLING AND STORAGE

Temperature : About 10-20 °C above the melting point 53-58 °C

Storage area : Store in Dry area, room temperature, dyke area. Protect from heat.

IMDG : Not Applicable

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control Parameters

No occupational Exposure Limits (OELs) have been established for this product or its chemical components

### 8.2 Exposure controls

Appropriate Engineering Controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed

Personal Protective Equipment: Gloves, Protective goggles

Hand Protection : Wear Chemical resistant protective gloves

Eye Protection : Chemical goggles or safety glasses

Respiratory Protection : Wear approved mask

Other Information : When using, don't eat, drink or smoke

## SECTION 9: PHYSICAL CHEMICAL PROPERTIES

### 9.1 Information on Basic Physical and Chemical Properties

Physical State : Solid

Appearance : Flakes, beads, powder

Freezing Point Range : 54-57 °C

Vapor Pressure : 1 mmHg @174 °C



## PT DUA KUDA INDONESIA

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Viscosity	: Not applicable
Flash Point	: 196 °C / 384.8 °F
Molecular Weight	: 284.47
Specific Gravity	: 0.840

### 9.2 Othe Information

No additional information available

## SECTION 10: STABILITY AND REACTIVITY

<b>Stability</b>	: Stable under normal conditions
<b>Conditions to Avoid</b>	: Avoid dust information. Incompatible products.Excess heat
<b>Incompatible Materials</b>	: Strong oxidizers
<b>Hazardous Decomposition Products</b>	: Carbon oxides (CO, CO2)
<b>Hazardous Polimerization</b>	: Hazardous polymerization does noy occur
<b>Hazardous Reactions</b>	: None under normal processing

## SECTION 11: TOXICOLOGICAL INFORMATION

### Information on Toxicological Effects

Acute Toxicity : Not Classified

Component	LD50 Oral rat
Stearic Acid and Palmitic acid	>10g/kg

Irritation	: No information available
Toxicologically Synergic	: No information available
Carcinogenicity	:There are known carcinogenic chemicals in this humans
Sensitization	: No information available
Mutagenic effects	: Mutagenic effects have occurred in humans
Reproductive effects	: No information available
Teratogenicity	: No information available
Endocrine disruptor information	: No information available



## PT DUA KUDA INDONESIA

### SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity : Don't empty into drains  
Persistence and degradability : Readily biodegradable  
Bioaccumulation/accumulation : no information available  
Mobility : Will likely be mobile in the environment due to its water solubility

### SECTION 13: DISPOSAL CONSIDERATION

#### Waste treatment methods

**Waste disposal recommendations** : Dispose of waste material in accordance with all local, regional, national, and international regulations.

### SECTION 14: TRANSPORT INFORMATION

DOT : Not regulated  
TDG : Not regulated  
IATA : Not regulated  
IMDG/IMO : Not regulated

### SECTION 15: REGULATIONS

#### Listed in TSCA Inventory

### SECTION 16: OTHER INFORMATION

*Disclaimer: The information provided on this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as warranty or quality specification. The information relates only to the specific material designed and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.*