PT. MUSIM MAS
Fatty Acid & Glycerine Division

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY

Product Identification

Product Name	:	Low IV Topped Palm Kernel Fatty Acid / Low IV Topped Coconut Fatty Acid
Trade Name	:	MASCID 0112, MASCID 0212
Other Identifier	:	Fatty Acid, C12-C18(even number)
Recommended Use	:	Food/feedstuff additives, fuels and fuel additives, lubricants and lubricant additives, surface active agents

Company Identification

Manufacturer Name	:	P.T.Musim Mas
Address	:	Jl. Oleo, Kawasan Industri Medan II, Saentis - Percut Sei Tuan, Deli Serdang Medan 20371 - Indonesia
Telephone Number	:	62-61-6871123
Fax Number	:	62-61-6871152 / 6871153
Email Address	:	*oleo@musimmas.com*
Emergency Telephone Number	:	+62-8116054139

2. HAZARD IDENTIFICATION

GHS Classification

Physical Hazard	:	Not classified as hazardous substance
Health Hazard	:	Serious eye damage / eye irritation, Category 1
Environmental Hazard	:	Not classified as hazardous substance

GHS Label Element

Hazard Symbol :

Signal Word	:	Danger
Hazard Statement	:	H318 Causes serious eye damage.
Precautionary Statement	:	P280 Wear eye protection/face protection. 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 CENTRE / doctor if you feel unwell.
Other Hazard	:	No information available

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3. COMPOSITION/ INFORMATION ON INGREDIENTS

Substance

Chemical Name	:	Dodecanoic Acid + Tetradecanoic Acid + Hexadecanoic Acid + Octadecanoic Acid
Synonym	:	Fatty Acid, C12-C18 (even numbered)
CAS No	:	67701-01-3
EINECS No	:	266-925-9
Ingredients or impurities that contribute to hazard	:	This product doesn't have impurities that contribute to the hazard classification

4. FIRST AID MEASURES

Eye Contact	:	Irritating. Flush with water; take to a physician if necessary.
Skin Contact	:	Irritating. Remove contaminated clothing, flush skin with water or shower, take to a physician if necessary.
Ingestion	:	Sore throat, abdominal pain. Rinse mouth, drink plenty of water, see physician. Do not give anything by mouth to an unconscious person.
Inhalation	:	Sore throat, cough. Remove to fresh air. If suffocation is serious, take to a physician.
Most important symptoms/effects, acute and delayed	:	No information available
Indication of immediate medical attention and special treatment needed	:	No information available

5. FIRE-FIGHTING MEASURES

Suitable extinguishing Media	:	Dry powder, carbon dioxide or foam.
Unsuitable extinguishing Media	:	Water jet.
Specific hazards arising from the substance or mixture	:	Combustible, keep away from open flame, no smoking.
Special protective equipment for fire-fighters	:	Use self-contained breathing equipment if in confined place.
Special protective action for fire-fighters	:	Keep away from source of ignition and use appropriate extinguishing media. Fight fire from upwind position if possible.

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Avoid contact with skin and eyes. Use gloves, face shield.
Enviromental precautions	:	Do not allow to flow into drainage system.
Methods and materials for containment and cleaning up	:	Collect leakage in sealable containers, soak up with sand or other inert absorbent and remove to safe place. Wash site with sodium bicarbonate solution or soda ash. Can also allow spillage to solidify, then shovel into containers. Clean up area immediately. Dispose off in accordance with local, state and federal regulation.

7. HANDLING AND STORAGE

Precautions for safe handling	:	Avoid open flames. Use gloves and wear goggles when handling. When using do not eat, drink or smoke. Avoid contact with skin and eyes.
Conditions for safe storage including any incompatibilities	:	Keep only in the original container in a cool, well ventilated place. Do not store together with : Oxidizing agents, Alkalis. Protect against : heating, UV-solarization/sunlight. Keep in a cool and dry place, avoid extreme heat and cold. Store in clean, dry preferably stainless steel vessels. In bulk, store at about 10°C above melting point or ambient. Temperature higher than necessary degrades quality at rates dependent on time and temperature of exposure. Exposure to ultraviolet light and sunlight must be minimized to prevent quality loss.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Appropriate engineering controls	:	Facilities storing or utilizing this materials should be equipped with an eyewash facilities and safety shower

Individual protection measures,such as personal protective equipment

Eye/Face Protection	:	Tightly sealed safety glasses.
Skin Protection	:	Hand protection : Recommended protective gloves are Butyl rubber, NBR (Nitrile rubber), PVC (Polyvinyl chloride).
Respiratory Protection	:	If technical suction or ventilation measures are not possible or are insufficient, protective breathing apparatus must be worn.
Thermal Hazards	:	Not applicable
Enviromental exposure controls	:	Do not empty into drains or the aquatic environment.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Information

Appearance		
Physical State	:	Solid
Colour	:	Colourless to yellowish, oily liquid
Odour	:	Bland odour
Odour threshold	:	No information available
pH	:	No information available
Melting point/freezing point	:	28 -35 ^{o}C
Initial boiling point and boiling range	:	170 ^{o}C at 760 mmHg
Flash point	:	> 150 ^{o}C (ASTM D92)
Evaporation rate	:	No information available
Flammability (solid,gas)	:	No information available
Upper/lower flammability or explosive limits	:	No information available
Vapour pressure	:	< 2.13E-3 Pa at 25° C (RA 143-07-7)
Vapour density	:	No information available
Relative density	:	0.85 g/cm^{3} at 20°C
Solubility	:	<50 mg/L at 25 ^{o}C
Partition coefficient :n-octanol/water	:	log P_{ow} 4.6 - 8.23 (RA from single compenents)
Auto-ignition temperature	:	> 300 ^{o}C
Decomposition temperature	:	Not available
Viscosity	:	12 mm^{2}/s (static) at 70°C
Explosive properties	:	Not explosive
Oxidizing properties	:	Not an oxidising liquid
Other Information	:	No information available

10. STABILITY AND REACTIVITY

Reactivity	:	The substance is stable under ordinary conditions of use and storage.
Chemical stability	:	Stable under normal operating conditions.
Possibility of hazardous reactions	:	No information available.
Conditions to avoid	:	Keep away from ignition sources and strong acids and bases.
Incompatible materials	:	Avoid contact with strong oxidizing agents and bases, copper alloys and reducing agent.
Hazardous decomposition products	:	Stable under normal conditions. Does not decompose up to 204°C. Thermal decomposition or burning may produce carbon monoxide and/or carbon dioxide.

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11. TOXICOLOGICAL INFORMATION

Acute toxicity	:	Oral	LD_{50}: >5000 mg/kg bw (R from 57-10-3)
		Inhalation	LC_{50} (4h) : > 0.1621 mg/L air (RA from 124-07-2)
		Dermal	LD_{50}: >2000 mg/kg bw (RA from 57-11-4)
Skin corrosion/irritation	:	Not Irritating	
Eye damage/irritation	:	Rabbit : irritating	
Respiratory or skin sensitization	:	Negative	
Mutagenicity	:	Negative	
Carcinogenicity	:	No information available	
Reproductive toxicity	:	No information available	
STOT-single exposure	:	No information available	
STOT-repeated exposure	:	No information available	
Aspiration hazard	:	No information available	

12. ECOLOGICAL INFORMATION

Ecotoxicity	:	LC_{50} (96h)	(species:Oryzias latipes) : 5 mg/L (RA from single components)
		EC_{50} (48h)	(species : Daphnia magna) : 3.6 mg/L (RA from single components)
Persistence and Degradability	:	Readily biodegradable	
Bioaccumulative potential	:	No potential for bioaccumulation	
Mobility in soil	:	No information available	
Result of the PBT and vPvB assesment	:	Not a PBT or vPvB substance	
Other adverse effects	:	No information available	

13. DISPOSAL CONSIDERATIONS

Disposal methods : Dispose of content/container to an approved waste disposal plant.
Do not dispose via sinks, drains or into the immediate environment.
Dispose only in accordance with local, state and federal regulations.

14. TRANSPORT INFORMATION

Land Transport (ADR/RID) : Not classified
Sea Transport (IMDG Code) : Not classified
Air Transport (IATA) : Not classified
Inland waterways Transport (ADN) : Not classified
Transport in Bulk (Annex II of MARPOL 73/78 and the IBC code) : Not classified

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15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture :

Inventories List (refer to single components)

ENCS (Japan)	: Yes
AICS (Australia)	: Listed
DSL (Canada)	: Listed
NDSL (Canada)	: No
IECSC (China)	: Listed
EINECS (EU)	: Yes
ECL (Korea)	: Yes
NZIoC (New Zealand)	: Yes
PICCS (Philippines)	: Listed
TSCA (USA)	: Listed
Chemical Safety assessment	: No information available.

16. OTHER INFORMATION

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