

WAWASAN AGROLIPIDS SDN BHD (418204-M)

MATERIAL SAFETY DATA SHEET

Section 1 : IDENTIFICATION

MANUFACTURER

WAWASAN AGROLIPIDS SDN. BHD.
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CONTACT DETAILS

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TRADE NAMES

STEAROLAC

CHEMICAL COMPOSITION

Free fatty acids of palm oil

PRODUCT CLASSIFICATION

Rumen bypass fats

Section 2 : HAZARDOUS INGREDIENTS

Not known.

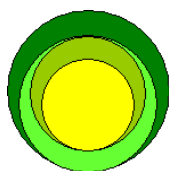
Section 3 : HAZARDOUS INFORMATION

Treat as inert and non-hazardous. No toxic or ill-effects under normal exposure conditions. Repeated and prolonged exposures is no known to aggravate any medical conditions.

INGESTION : May cause mild stomach upset.

SKIN CONTACT : May cause irritation. No data on sensitization.

EYE CONTACT : May cause slight irritation.



Section 4 : FIRST AID MEASURES

- INGESTION : Rinse mouth with water.
- SKIN CONTACT : Dust off or flush affected area with soap and water.
- EYE CONTACT : Check and remove any contact lenses. Flush eyes with water for 10 minutes or until area is clean.

Seek medical attention if affected area continues to be irritated.

Section 5 : FIRE & EXPLOSION HAZARD DATA

FLASH POINT

➤ 115°C / 240°F

FLAMMABILITY

Maybe combustible at high temperature

SMOKE POINT

➤ Not available

HAZARDOUS COMBUSTION PRODUCTS

Soot, smoke, carbon monoxide

EXTINGUISHING MEDIA

Dry fire fighting chemicals, foam, water, carbon dioxide

SPECIAL FIRE FIGHTING PROCEDURES

Strong water spray could spread burning oil.
Water mist or sprinkler is recommended.

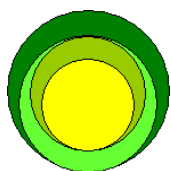
Section 6 : SPILL & LEAKS PROCEDURES

STEPS TO BE TAKEN IN CASE OF SPILLS & LEAKS

Adequate sweeping or vacuum. Do not wash with any base solvents. May cause exothermic reaction.

WASTE DISPOSAL METHODS

Observe all local, state and federal regulations. Product is easily biodegradable.



Section 7 : PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken in the event of spillage or chemical release: Wear face mask or breathing apparatus.

Precautions to be taken in Handling and Storage: Keep away from heat and sources of ignition. Keep away from sources of alkaline bases. Do not ingest.

Section 8 : EXPOSURE CONTROL – PERSONAL PROTECTION

Occupation Exposure Limits: No data available but product is generally considered as non-toxic.

Personal Protective Equipment: Generally not required. Exceptions may consider following :

Respiratory System : Wear appropriate respirator when ventilation is inadequate

Skin and Body : Not necessary

Hands : Impervious Gloves

Eyes : Safety glasses or goggles

Other/Special : None required

Section 9 : PHYSICAL & CHEMICAL CHARACTERISTICS

BOILING POINT

➤ 300°C (572°F)

MELTING POINT

52-58°C

VAPOR PRESSURE(mmHg)

Not applicable

SPECIFIC GRAVITY

0.56-0.57

VAPOR DENSITY

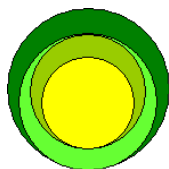
Not applicable

EVAPORATION RATE

Not applicable

SOLUBILITY IN WATER

APPEARANCE



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Insoluble in water

Light brown beads of about 800 microns

SOLUBILITY IN SOLVENTS

ODOR

None known

Fatty acid odor

Section 10 : REACTIVITY DATA

Product is acidic and may react with alkaline bases to form soaps in an exothermic reaction that will emit steam and heat.

Section 11 : TOXICOLOGICAL INFORMATION

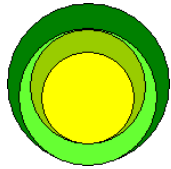
No known toxicological concerns. Product is non-toxic.

Section 12 : ECOLOGICAL DATA

Product is readily bio-degradable.

Section 13 : DISPOSAL CONSIDERATIONS

This material is not regarded as hazardous waste. Observe all federal, state and local environmental regulations



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Section 14 : TRANSPORT INFORMATION

Non-hazardous to any mode of transport. Proper sealing and leak proof containers to be used to prevent possible leakages.

Section 15 : REGULATORY INFORMATION

Benign material. Tendency to dust which may increase combustion possibility especially when exposed to extreme heat source.

Regulations: The Chemicals (Hazard Information and Packaging for Supply) regulations 2002. 1999/45/EC Dangerous Preparations Directive. 91/155/EC Safety Data Sheets Directive.

Section 16 : OTHER INFORMATION

Source of data	:	In house.
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