TABLET PRESSES

Product Code: MS001

Raw Material Full Name: Magnesium Stearate

Raw Material Full Botanical/Chemical/Latin/Trade Name/Synonyms: Octadecanoic Acid & Magnesium Salts

Magnesium Content (On a Dry Basis): 4.0% - 5.0%

First Identification C & D: To Pass The Test

Second Identification A, B & D: To Pass The Test

Acidity or Alkalinity Test: To Pass The Test

CAS Number: 557-04-0

Average Molecular weight: 591.24

Solubility in Water: Practically Insoluble in Water

Solubility in Alcohol: Practically Insoluble in Ethanol

Loss on Drying (at 105^{o}C): Max 6%

Free Alkalinity: Max 0.100%

Free Fatty Acid: Max 3.0%

Specific Surface Area: 1,500 – 3,500 m^{2}/g

Fatty Acid Content (C16 + C18): 90.00 – 100.00%

Fatty Acid Content (C18): 40.00 – 100.00%

Chlorides: Max 0.1%

Sulphates: Max 1.0%

Particle Size: 100 Mesh

Percentage passed through: 95%

Country of Origin: Europe/China

Country of Origin of the Manufacture: Europe/China

Base Source/Start Material: Stearic Acid & Magnesium Sulphate

Origin of Product – Synthetic, Plant, Mineral, Animal, Fish or Fermented: Plant

Part of the plant used: Palm Fruit Oil

What is the extraction/processing used? What solvents are used and at what ratio's? Water is Used

Material is: 100%

Compound Ingredients: None

Shelf Life from Date of Manufacture: 2 Years

Storage Conditions: This material is to be stored in a tightly sealed bag/container and to be kept in a cool place away from moisture and direct sunlight

Appearance: Free Flowing Fine Powder

Colour: White/Off White

Flavour/Taste: Characteristic

Texture: Powder

Odour: Characteristic

Microbiological Test

Total Viable Count: Max 1,000cfu/g

Yeast & Moulds: Max 100cfu/g

E.Coli: Absent

Salmonella: Absent

Staphylococcus aureus: Absent

Metals

Lead (Pb): Max 3ppm

Cadmium (Cd): Max 1ppm

Nickel (Ni): Max 5ppm

Pharmacopeia Standard Used: USP/NF24 & EP5

There are no nuts in this recipe and are no nuts on site, however we cannot guarantee that the raw materials entering the site are nut free.

TABLET PRESSES

CONFIRMATION OF BSE/TSE STATUS

This is to certify that this product complies with all relevant current UK and EU Legislative requirements in regard to Transmissible Spongiform Encephalopathies (TSE) and Bovine Spongiform Encephalopathy (BSE) for human food, and so is free of TSE/BSE.

This is also to certify that, during the course of their manufacture, the above-mentioned product did not come into contact with any materials, which could be derived from TSE/BSE risk materials.

CONFIRMATION OF GM STATUS

This is to certify that this product is not manufactured from GM raw materials and is therefore not subject to labelling under regulations 1829/2003/EC and 1830/2003/EC.

CONFIRMATION OF NON IRRADIATION STATUS

This is to certify that this product, whole or in part, has not been subjected to Ionising Radiation as per European Directives 1999/2/EC and 1000/3/EC.

CONFIRMATION OF NANDROLONE STATUS

This is to certify that this product, whole or in part, has not come into contact with Nandrolone or any of its precursors in any way.

CONFIRMATION OF IOC PRODUCT STATUS

This is to certify that this product, whole or in part, has not come into contact with any product/s, which is banned by the IOC (International Olympics Committee).

CONFIRMATION OF ANIMAL TESTING STATUS

This is to certify that all the products sold by LFA Machines Oxford Ltd have not been tested on animals in any part of its manufacture in accordance with regulation 86/609/EEC.

CONFIRMATION OF PESTICIDES STATUS

This is to certify that the above-mentioned product complies with the regulation (EC) No.396/2005 of 23rd February 2005 and commission Regulation (EU) No. 559/2011 of 7th June 2011 amending annexes II and III of the above Regulation.

MATERIAL SAFETY DATA SHEET

Section 1 Description

Product Name: MAGNESIUM STEARATE

Product Code: MS001

Supplier:

LFA Machines Oxford Ltd,

Unit 4b, 26-27 Murdock Road,

Bicester,

Oxfordshire,

OX26 4PP

United Kingdom

Tel: +44 (0) 1869 250 234

Section 2 Ingredients/Identity Information

Components: MAGNESIUM STEARATE

% in Product: 100

CAS Number: 557-04-0

Formula: N/A

EINECS Number: N/A

Section 3 Hazards identification

Potential Acute Health Effects: Hazardous in case of ingestion. Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation.

Potential Chronic Health Effects:

Carcinogenic Effects: Not available

Mutagenic Effects: Not available

Teratogenic Effects: Not available

Developmental Toxicity: Not available

The substance may be toxic to liver, skin.

Repeated or prolonged exposure to the substance can produce target organs damage

Section 4 Emergency and First Aid Procedures

Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. WARM water MUST be used. Get medical attention if irritation occurs.

Skin Contact: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Serious Skin Contact: Not available

Inhalation: If inhaled more to fresh air. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Get medical attention. Serious Inhalation: Not available

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed call a physician immediately. Loosen tight clothing such as collar, tie, belt or waistband. Serious Ingestion: Not available

Section 5 Fire and Hazard Data

Flammability of Product: May be combustible at high temperatures

Auto-Ignition Temperature: Not available

Flash Points: Not available

Flammable Limits: Not available

Products of combustion: These products are carbon oxides (CO, CO2)

Fire Hazardous in Presence of Various Substances

Slight flammable in presence of open flames and sparks, of heat. Non-flammable in presence of shocks

Explosion Hazards in Presence of Various Substances

Risks of explosion of the product in presence of mechanical impact: Not available Risks of explosion of the product in presence of static discharge: Not available

Fire Fighting Media & Instructions

SMALL FIRE: Use dry chemical powder

LARGE FIRE: Use water spray, fog or foam. Do not use water jet

Section 6 Accidental release measures

SMALL SPILL:

Use appropriate tools to put the spilled solid in an appropriate container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

LARGE SPILL:

Use shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check the TLV on the msds and with local authorities

Section 7 Storage

Precautions:

Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood.

Ground all equipment containing material. Do not ingest. Do not breath dust. If ingested seek medical advice immediately and show the label or container.

Storage:

Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8 Control Methods/Personal Protection

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection: Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Glove.

Personal Protection in Case of Large Spill: Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Section 9 Physical and Chemical Properties

Physical state: Powder

Colour: White to off white

Odour: Characteristic

Section 10 Stability and Reactivity

Stability: The product is stable

Instability Temperature: Not available

Corrosivity: Non-corrosive in presence of glass

Polymerization: Will not occur

Section 11 Toxicological Information

Routes of Entry: Ingestion.

LD50: Not available

LC50: Not available

Chronic Effects on Humans: May cause damage to the following organs: liver, skin.

Other Effects on Humans: Hazardous in case of ingestion.

Section 12 Ecological Information

Ecotoxicity: Not available

BOD5 and COD: Not available

Products of Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are more toxic.

Section 13 Disposal Considerations

Waste from residues: Dispose of in accordance with all applicable local and national regulations.

Section 14 Transport Information

Transport classification: Not classified as dangerous for any mode of UK or International transport.

Section 15 Regulatory Information

References: Not available

Other Special Considerations: Reviews, Standards and Regulations: Health & Safety at work act 1974. COSHH Regulations (1994). EH40 Occupational exposure limits.

Section 16 Other Information

This advice is given by LFA Machines Oxford Ltd who accept no legal liability for it. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be

construed as guaranteeing specific properties.

Individuals working with chemicals should consider all chemicals to be potentially hazardous even if their individual hazards may be uncharacterised or unknown.

We confirm that the information above is sourced from the original manufacturers/suppliers Specification

To be used as per local legislation