

**Miakara**

**Makers**

**Safety Data Sheet**

**Stearic acid**

| 1. IDENTIFICATION |
| --- |

Product Name

Other Names

Uses

Chemical Family Chemical Formula Chemical Name Product Description

Stearic Acid

S-1838; S-1845; S1850 Beads; S-1852; S-1865; SAF 1865; Stearic acid [CAS#57-11-4]

Washing & cleaning products, leather treatment products, polymers, pH regulators and water treatment products, textile treatment products and dyes and lubricants and greases.

No Data Available

Unspecified

Fatty acids, C16-18

No Data Available

Contact Details of the Supplier of this Safety Data Sheet

Organisation Telephone Location

| Miakara Makers |
| --- |
| 3/27 Graystone Ct, Epping Vic 3076 |
| 0488113230 |

Emergency Contact Details

For emergencies only; DO NOT contact these companies for general product advice.

Organisation

Chemcall

Chemcall

Chemcall

National Poisons Centre

Location Telephone

Australia 1800-127406 +64-4-9179888

Malaysia +64-4-9179888

New Zealand 0800-243622 +64-4-9179888

New Zealand 0800-764766

CHEMTREC USA & Canada 1-800-424-9300 CN723420 +1-703-527-3887

| 2. HAZARD IDENTIFICATION |
| --- |

Poisons Schedule (Aust) Not Scheduled

Globally Harmonised System

**Safety Data Sheet, Stearic acid, Revision 5, 14/02/2023**

Hazard Classification NOT hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)

Signal Word None

National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods Classification NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

| 3. COMPOSITION/INFORMATION ON INGREDIENTS |
| --- |

Ingredients

| Chemical Entity  | Formula  | CAS Number  | Proportion |
| --- | --- | --- | --- |
| Fatty acids, C16-18  | Unspecified  | 67701-03-5  | <=100 %  |

| 4. FIRST AID MEASURES |
| --- |

Description of necessary measures according to routes of exposure

Swallowed IF SWALLOWED: Rinse mouth with water. Do not induce vomiting. Get medical advice/attention. Never give anything by mouth to an unconscious person.

Eye IF IN EYES: Immediately flush eyes with running water for several minutes, holding eyelids open and occasionally lifting the upper and lower lids. Remove contact lenses if present and easy to do. Continue rinsing for at least 15

minutes. If eye irritation persists, get medical advice/attention.

Skin IF ON SKIN: Was with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs, get medical advice/attention.

Inhaled IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If respiratory symptoms persist, get medical advice/attention. Apply resuscitation if victim is not breathing - Administer oxygen if

breathing is difficult.

Advice to Doctor Treat symptomatically.

Medical Conditions Aggravated by Exposure

No information available.

| 5. FIRE FIGHTING MEASURES |
| --- |

General Measures If safe to do so, move undamaged containers from fire area. Cool containers with water spray until well after fire is out.

Flammability Conditions Combustible solid; May burn but does not ignite readily.

Extinguishing Media Use dry chemical, Carbon dioxide (CO2), foam or water spray for extinction - Do not use water jets.

Fire and Explosion Hazard Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Solids may melt and flow when heated or involved in a fire.

Hazardous Products of Combustion

Special Fire Fighting Instructions

Fire may produce irritating, toxic and/or corrosive fumes, including Carbon oxides, hydrocarbons, soot, aldehydes and ketones.

Contain runoff from fire control or dilution water - Runoff may pollute waterways.

Personal Protective Equipment Wear self-contained breathing apparatus (SCBA) and chemical splash suit. SCBA and structural firefighter’s uniform may provide limited protection.

Flash Point >200 °C [Closed cup]

Lower Explosion Limit No Data Available

**Safety Data Sheet, Stearic acid, Revision 5, 14/02/2023**

Upper Explosion Limit No Data Available

Auto Ignition Temperature No Data Available

Hazchem Code No Data Available

| 6. ACCIDENTAL RELEASE MEASURES |
| --- |

General Response Procedure Ensure adequate ventilation. ELIMINATE all ignition sources. Do not touch or walk through spilled material. Avoid breathing vapours and contact with eyes, skin and clothing.

Clean Up Procedures Collect spilled material and place into suitable containers for disposal (see SECTION 13). If appropriate, allow liquid spillage to solidify before cleanup.

Containment Stop leak if safe to do so – Prevent entry into waterways, drains or confined areas. Prevent dust cloud. Decontamination After collecting the spillage, wash with plenty of water.

Environmental Precautionary Measures

Prevent entry into drains and waterways.

Evacuation Criteria Spill or leak area should be isolated immediately. Keep unauthorised personnel away.

Personal Precautionary Measures

Use personal protective equipment as required (see SECTION 8).

| 7. HANDLING AND STORAGE |
| --- |

Handling Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Avoid formation of dust

and aerosols. Avoid breathing dust/aerosols and contact with eyes, skin and clothing. Do not ingest. Use personal

protective equipment as required (see SECTION 8). Dry powders can build static electricity charges when subjected

to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and

bonding, or inert atmospheres.

Storage Store in a cool, dry and well-ventilated place, out of direct sunlight. Keep container tightly closed. Keep away from heat and sources of ignition - No smoking. Keep away from incompatible materials (see SECTION 10).

Container Keep in the original container.

| 8. EXPOSURE CONTROLS / PERSONAL PROTECTION |
| --- |

General No specific exposure standards are available for this product. For dusts from solid substances without specific occupational exposure standards:

- Safe Work Australia Exposure Standard (Nuisance dusts): 8 hr TWA = 10 mg/m3 (measured as inhalable dust).

- New Zealand WES (Particulates not otherwise classified): TWA = 10 mg/m3; TWA = 3 mg/m3 (respirable dust).

Exposure Limits No Data Available

Biological Limits No information available.

Engineering Measures A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source,

preventing dispersion of it into the general work area.

Personal Protection Equipment - Respiratory protection: In case of inadequate ventilation, wear respiratory protection. Recommended: Dust mask/particulate filter respirator (refer to AS/NZS 1715 & 1716).

- Eye/face protection: Wear appropriate eye protection to avoid eye contact. Recommended: Safety glasses or

goggles.

- Hand protection: Handle with gloves. Recommended: Chemically-resistant protective gloves.

- Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. Recommended:

Overalls, safety shoes.

Special Hazards Precaustions No information available.

Work Hygienic Practices Do not eat, drink or smoke when using this product. Wash hands with soap and water after handling the material. Take off contaminated clothing and wash before reuse. Routine housekeeping should be instituted to ensure that

dusts do not accumulate on surfaces.

**Safety Data Sheet, Stearic acid, Revision 5, 14/02/2023**

| 9. PHYSICAL AND CHEMICAL PROPERTIES |
| --- |

Physical State Solid

Appearance Crystalline powder or waxy flakes, beads

Odour Faint, fatty

Colour White

pH No Data Available

Vapour Pressure <1.0 mmHg (@ 165 °C)

Relative Vapour Density No Data Available

Boiling Point >300 °C

Melting Point 54 - 59 °C

Freezing Point No Data Available

Solubility 113 mg/L in water 20°C

Specific Gravity 0.84

Flash Point >200 °C [Closed cup]

Auto Ignition Temp No Data Available

Evaporation Rate No Data Available

Bulk Density No Data Available

Corrosion Rate No Data Available

Decomposition Temperature No Data Available

Density 0.84 g/mL

Specific Heat No Data Available

Molecular Weight No Data Available

Net Propellant Weight No Data Available

Octanol Water Coefficient No Data Available

Particle Size No Data Available

Partition Coefficient No Data Available

Saturated Vapour Concentration No Data Available

Vapour Temperature No Data Available

Viscosity 9.5 mPa.s (@ 70 °C)

Volatile Percent No Data Available

VOC Volume No Data Available

Additional Characteristics No information available.

Potential for Dust Explosion Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Fast or Intensely Burning Characteristics

Flame Propagation or Burning Rate of Solid Materials

Non-Flammables That Could Contribute Unusual Hazards to a Fire

Properties That May Initiate or Contribute to Fire Intensity

Reactions That Release Gases or Vapours

Release of Invisible Flammable Vapours and Gases

No information available.

No information available.

No information available.

Combustible solid; May burn but does not ignite readily.

Fire/decomposition may produce irritating, toxic and/or corrosive fumes, including Carbon oxides, hydrocarbons, soot, aldehydes and ketones.

No information available.

| 10. STABILITY AND REACTIVITY |
| --- |

**Safety Data Sheet, Stearic acid, Revision 5, 14/02/2023**

General Information No information available.

Chemical Stability Stable under normal operational conditions.

Conditions to Avoid Avoid generating dust/aerosols. Keep away from heat and sources of ignition. Materials to Avoid Incompatible/reactive with strong acids and oxidising agents.

Hazardous Decomposition Products

Fire/decomposition may produce irritating, toxic and/or corrosive fumes, including Carbon oxides, hydrocarbons, soot, aldehydes and ketones.

Hazardous Polymerisation Hazardous polymerisation will not occur.

| 11. TOXICOLOGICAL INFORMATION |
| --- |

General Information Information on possible routes of exposure:

- Ingestion: May cause gastrointestinal discomfort if consumed in large amounts.

- Eye contact: May cause slight eye irritation.

- Skin contact: May cause slight skin irritation.

- Inhalation: Dust/aerosols may cause respiratory tract irritation.

Chronic effects: No information available.

Acute

Ingestion Acute toxicity (Oral):

- LD50, Rat: 2,000 - 6,000 mg/kg bw. [Supplier's SDS].

Other Acute toxicity (Dermal):

- LD50, Rabbit: >2,000 mg/kg bw. [Supplier's SDS].

Carcinogen Category None

| 12. ECOLOGICAL INFORMATION |
| --- |

Ecotoxicity Aquatic toxicity:

- LC50, Fish (Leuciscus idus): 10 g/L (48 h).

- EC50, Crustacea (Daphnia magna): 4.8 mg/L (48 h).

- EC50, Algae/aquatic plants (Pseudokirchneriella subcapitata): 900 ug/L (72 h).

- EC10, Microorganisms (Pseudomonas putida): 883 mg/L (18 h).

Persistence/Degradability Readily biodegradable.

Mobility No information available.

Environmental Fate Toxic to aquatic life - Avoid release to the environment.

Bioaccumulation Potential No information available.

Environmental Impact No Data Available

| 13. DISPOSAL CONSIDERATIONS |
| --- |

General Information Dispose of contents/container in accordance with local/regional/national regulations. Special Precautions for Land Fill No information available.

| 14. TRANSPORT INFORMATION |
| --- |

**Safety Data Sheet, Stearic acid, Revision 5, 14/02/2023**

Land Transport (Australia)

ADG Code

Proper Shipping Name Stearic Acid

Class No Data Available

Subsidiary Risk(s) No Data Available

No Data Available

UN Number No Data Available

Hazchem No Data Available

Pack Group No Data Available

Special Provision No Data Available

Comments NON-DANGEROUS GOODS: Not regulated for LAND transport.

Land Transport (Malaysia)

ADR Code

Proper Shipping Name Stearic Acid

Class No Data Available

Subsidiary Risk(s) No Data Available

No Data Available

UN Number No Data Available

Hazchem No Data Available

Pack Group No Data Available

Special Provision No Data Available

Comments NON-DANGEROUS GOODS: Not regulated for LAND transport.

Land Transport (New Zealand)

NZS5433

Proper Shipping Name Stearic Acid

Class No Data Available

Subsidiary Risk(s) No Data Available

No Data Available

UN Number No Data Available

Hazchem No Data Available

Pack Group No Data Available

Special Provision No Data Available

Comments NON-DANGEROUS GOODS: Not regulated for LAND transport.

Land Transport (United States of America)

US DOT

Proper Shipping Name Stearic Acid

Class No Data Available

Subsidiary Risk(s) No Data Available

No Data Available

UN Number No Data Available

Hazchem No Data Available

Pack Group No Data Available

Special Provision No Data Available

Comments NON-DANGEROUS GOODS: Not regulated for LAND transport.

**Safety Data Sheet, Stearic acid, Revision 5, 14/02/2023**

Sea Transport

IMDG Code

Proper Shipping Name Stearic Acid

Class No Data Available

Subsidiary Risk(s) No Data Available

UN Number No Data Available

Hazchem No Data Available

Pack Group No Data Available

Special Provision No Data Available

EMS No Data Available

Marine Pollutant No

Comments NON-DANGEROUS GOODS: Not regulated for SEA transport.

Air Transport

IATA DGR

Proper Shipping Name Stearic Acid

Class No Data Available

Subsidiary Risk(s) No Data Available

UN Number No Data Available

Hazchem No Data Available

Pack Group No Data Available

Special Provision No Data Available

Comments NON-DANGEROUS GOODS: Not regulated for AIR transport.

National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods Classification NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

| 15. REGULATORY INFORMATION |
| --- |

General Information No Data Available

Poisons Schedule (Aust) Not Scheduled

Environmental Protection Authority (New Zealand)

Hazardous Substances and New Organisms Amendment Act 2015

Approval Code Not Hazardous

National/Regional Inventories

Australia (AIIC) Listed

Canada (DSL) Not Determined

Canada (NDSL) Not Determined

**Safety Data Sheet, Stearic acid, Revision 5, 14/02/2023**

China (IECSC) Not Determined

Europe (EINECS) 266-928-5

Europe (REACh) Not Determined

Japan (ENCS/METI) Not Determined

Korea (KECI) Not Determined

Malaysia (EHS Register) Not Determined

New Zealand (NZIoC) Listed

Philippines (PICCS) Not Determined

Switzerland (Giftliste 1) Not Determined

Switzerland (Inventory of Notified Substances)

Not Determined

Taiwan (NCSR) Not Determined

USA (TSCA) Not Determined

| 16. OTHER INFORMATION |
| --- |

Related Product Codes

Revision

Revision Date

Reason for Issue

Key/Legend

STACID0300, STACID0400, STACID0401, STACID0500, STACID0600, STACID0601, STACID0700, STACID0800, STACID0900, STACID1000, STACID1001, STACID1002, STACID1003, STACID1004, STACID1005, STACID1006, STACID1007, STACID1008, STACID1009, STACID1010, STACID1011, STACID1012, STACID1013, STACID1014, STACID1015, STACID1016, STACID1017, STACID1018, STACID1100, STACID1200, STACID1400, STACID1500, STACID1600, STACID1700, STACID1701, STACID1702, STACID1703, STACID1704, STACID1800, STACID1850, STACID1851, STACID1865, STACID2000, STACID2001, STACID3000, STACID3100, STACID4000, STACID4300, STACID4310, STACID4330, STACID4500, STACID4525, STACID4541, STACID4542, STACID4543, STACID4544, STACID4546, STACID4547, STACID4551, STACID4554, STACID4555, STACID4561, STACID4562, STACID4563, STACID4564, STACID4565, STACID4566, STACID4567, STACID5000, STACID5001, STACID5500, STACID6000, STACID6001, STACID6002, STACID6200, STACID6201, STACID6500, STACID6501, STACID6502, STACID6503, STACID6504, STACID6600, STACID6800, STACID6900, STACID7000, STACID7001, STACID7002, STACID7100, STACID7500, STACID7501, STACID7600, STACID7601, STACID7700, STACID7900, STACID8000, STACID8100, STACID8500, STACID8600, STACID9000, STACID9001, STACID9300, STACID9500, STACID9700, STACID9800

5

14/02/2023

Updated SDS

< Less Than

> Greater Than

AICS Australian Inventory of Chemical Substances

atm Atmosphere

CAS Chemical Abstracts Service (Registry Number)

cm² Square Centimetres

CO2 Carbon Dioxide

COD Chemical Oxygen Demand

deg C (°C) Degrees Celcius

EPA (New Zealand) Environmental Protection Authority of New Zealand

deg F (°F) Degrees Farenheit

g Grams

g/cm³ Grams per Cubic Centimetre

g/l Grams per Litre

HSNO Hazardous Substance and New Organism

IDLH Immediately Dangerous to Life and Health

immiscible Liquids are insoluable in each other.

inHg Inch of Mercury

inH2O Inch of Water

K Kelvin

kg Kilogram

kg/m³ Kilograms per Cubic Metre

**Safety Data Sheet, Stearic acid, Revision 5, 14/02/2023**

lb Pound

LC50 LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours. LD50 LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.

ltr or L Litre

m³ Cubic Metre

mbar Millibar

mg Milligram

mg/24H Milligrams per 24 Hours

mg/kg Milligrams per Kilogram

mg/m³ Milligrams per Cubic Metre

Misc or Miscible Liquids form one homogeneous liquid phase regardless of the amount of either component present.

mm Millimetre

mmH2O Millimetres of Water

mPa.s Millipascals per Second

N/A Not Applicable

NIOSH National Institute for Occupational Safety and Health

NOHSC National Occupational Heath and Safety Commission

OECD Organisation for Economic Co-operation and Development

Oz Ounce

PEL Permissible Exposure Limit

Pa Pascal

ppb Parts per Billion

ppm Parts per Million

ppm/2h Parts per Million per 2 Hours

ppm/6h Parts per Million per 6 Hours

psi Pounds per Square Inch

R Rankine

RCP Reciprocal Calculation Procedure

STEL Short Term Exposure Limit

TLV Threshold Limit Value

tne Tonne

TWA Time Weighted Average

ug/24H Micrograms per 24 Hours

UN United Nations

wt Weight