

Material Safety Data Sheet

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Stearic Acid Triple Pressed

INCI Name: Stearic Acid

CAS No.: 57-11-4

Product Form: White beads

Chemical Formula: C₁₈H₃₆O₂

Molecular Weight: 284.48 g/mol

Recommended Use: Cosmetic, personal-care and formulation raw material

Recommended Uses: Emulsions, creams, lotions, soaps, cleansing products, hair-care products and other cosmetic formulations.

Grade: Cosmetic / Industrial Raw Material

Country of Origin: Malaysia

Supplier: Botanic Planet Canada Inc.

Address: 2 Bram Crt Unit # 3-4 Brampton, Ontario, Canada

Telephone number: 905-455-4444

Emergency phone number (613)-996-6666 CANUTEC 24 HOUR EMERGENCY

2. HAZARD IDENTIFICATION

GHS / WHMIS Classification

Based on available information, Stearic Acid is not classified as a hazardous substance under normal conditions of use according to applicable WHMIS/GHS criteria.

Signal Word: None required

Hazard Pictogram: None required

Hazard Statements: None required

Potential Hazards

- Molten material may cause thermal burns.
- Dust generated during handling may cause mechanical irritation to the eyes, nose and respiratory tract.
- Fine airborne organic dust may present a combustible-dust hazard under certain conditions.
- Avoid unnecessary generation of dust.

Precautionary Measures

- Avoid breathing dust.
- Avoid contact with eyes.
- Provide adequate ventilation.
- Keep away from excessive heat and ignition sources.
- Wash hands after handling.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Chemical Name	CAS No.	Concentration
Stearic Acid	Octadecanoic Acid	57-11-4	100%

4. FIRST-AID MEASURES

Eye Contact

Immediately rinse eyes with plenty of clean water for at least 15 minutes. Remove contact lenses if easily possible. Seek medical attention if irritation persists.

Skin Contact

Wash thoroughly with soap and water.

If contacted with molten material: Immediately cool the affected area with plenty of cool water. Do not attempt to remove solidified material from the skin. Obtain medical attention for significant burns.

Inhalation

Move the person to fresh air. If coughing, irritation or breathing difficulty persists, seek medical attention.

Ingestion

Rinse mouth with water. Do not induce vomiting unless directed by medical personnel. Seek medical advice if symptoms occur.

Most Important Symptoms

Temporary eye, skin or respiratory irritation may occur following exposure to dust. Molten product may cause thermal burns.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

- Water spray
- Dry chemical
- Carbon dioxide
- Foam

Specific Hazards:

Stearic acid is combustible. Fine dust dispersed in air may form a combustible dust mixture under suitable conditions.

Hazardous Combustion Products:

Carbon monoxide, carbon dioxide and irritating fumes may be produced during combustion.

Firefighter Protection:

Use appropriate protective clothing and self-contained breathing apparatus where required.

Special Precautions:

Avoid creating or dispersing dust during firefighting and cleanup.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

- Avoid breathing dust.
- Avoid contact with eyes.
- Ensure adequate ventilation.
- Keep unnecessary personnel away from the spill area.
- Eliminate ignition sources where significant dust is present.

Environmental Precautions

Prevent large quantities from entering drains, waterways or soil.

Cleanup Methods

Collect mechanically using methods that minimize dust generation. Place recovered material into a suitable, sealed container for reuse or disposal. Avoid compressed air or vigorous sweeping that could disperse fine dust.

7. HANDLING AND STORAGE

Handling

- Handle using good industrial hygiene practices.
- Avoid generating airborne dust.
- Avoid contact with eyes.
- Keep away from excessive heat and ignition sources.
- Wash hands after handling.
- Do not eat, drink or smoke while handling the material.

Storage

Store in a cool, dry and well-ventilated area.

Keep containers tightly closed and protected from:

- Moisture
- Direct sunlight
- Excessive heat
- Ignition sources
- Contamination

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

Use adequate general ventilation. Local exhaust ventilation is recommended where dust may be generated.

Respiratory Protection

Normally not required under normal handling conditions. If significant airborne dust is generated, use an appropriate particulate respirator in accordance with workplace requirements.

Eye Protection

Safety glasses or protective eyewear are recommended.

Hand Protection

Protective gloves are recommended for prolonged or repeated handling.

Thermal Protection

When handling molten Stearic Acid, use suitable heat-resistant gloves and protective clothing.

Hygiene

Wash hands thoroughly after handling. Maintain good workplace hygiene.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Specification / Description
Appearance	White beads
Odor	None
Physical State	Solid
Color	White
Chemical Type	Saturated fatty acid
CAS No.	57-11-4
Molecular Formula	$C_{18}H_{36}O_2$
Molecular Weight	284.48 g/mol
Acid Value	204–210 mg KOH/g

Property	Specification / Description
Iodine Value	<0.5 g I ₂ /100 g
Saponification Value	205–211 mg KOH/g
Melting Point	54–56°C
Solubility in Water	Insoluble / practically insoluble
Flash Point	Approximately 196°C*
Vapor Pressure	Very low at ambient temperature
Relative Density	Approximately 0.94–0.95

*Flash point may vary depending on test method and product grade.

10. STABILITY AND REACTIVITY

Reactivity: No hazardous reactivity expected under normal conditions.

Chemical Stability: Stable under recommended storage and handling conditions.

Possibility of Hazardous Reactions: Hazardous polymerization is not expected.

Conditions to Avoid

- Excessive heat
- Open flames
- Ignition sources
- Excessive dust generation
- Strong oxidizing conditions

Incompatible Materials

Strong oxidizing agents and materials that react with fatty acids.

Hazardous Decomposition Products

Carbon monoxide, carbon dioxide and irritating fumes may be produced during combustion.

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

- Eye contact
- Skin contact
- Inhalation of dust
- Accidental ingestion

Acute Toxicity

Stearic acid has relatively low acute toxicity under normal occupational handling conditions.

Skin Irritation

May cause temporary mechanical irritation with prolonged exposure.

Eye Irritation

Dust may cause mechanical irritation.

Respiratory Effects

Inhalation of high concentrations of dust may cause temporary irritation of the nose and respiratory tract.

Sensitization

Not expected to be a significant skin sensitizer based on available information.

Carcinogenicity

Not classified as carcinogenic based on available information.

Mutagenicity

Not classified as mutagenic based on available information.

Reproductive Toxicity

Not classified as a reproductive toxicant based on available information.

12. ECOLOGICAL INFORMATION

No specific ecological toxicity data are available for this product.

Stearic acid is a naturally occurring fatty acid and is expected to be biodegradable under appropriate environmental conditions.

Avoid uncontrolled release of large quantities into waterways or drains.

13. DISPOSAL CONSIDERATIONS

Dispose of product and contaminated packaging in accordance with applicable federal, provincial and local regulations.

Where permitted, uncontaminated material may be recovered for appropriate use.

Do not discharge large quantities into drains or waterways.

14. TRANSPORT INFORMATION

Transport Regulation Classification

UN Number Not assigned

Proper Shipping Name Stearic Acid

TDG Canada Not regulated as dangerous goods

DOT Not regulated as dangerous goods

IMDG Not regulated as dangerous goods

IATA Not regulated as dangerous goods

Transport Hazard Class None

Packing Group Not applicable

15. REGULATORY INFORMATION

Stearic Acid is commonly used as a raw material in cosmetic and personal-care formulations.

Based on available information, the product is not classified as a hazardous product under normal conditions of use according to applicable WHMIS/GHS criteria.

The manufacturer/formulator of any finished cosmetic product is responsible for ensuring compliance with applicable regulations, ingredient labeling requirements and product claims.

16. OTHER INFORMATION

Product Quality Information

Parameter	Specification	Result
Appearance	White beads/flakes	Complies
Odor	None	Complies
Acid Value	204–210 mg KOH/g	209.0
Iodine Value	<0.5 g I ₂ /100 g	0.3
Saponification Value	205–211 mg KOH/g	210
Palmitic Acid	52–56%	55.3%

Parameter	Specification	Result
Stearic Acid	42–47%	42.6%
Melting Point	54–56°C	54.8°C

Storage Recommendation

Store tightly sealed in a cool, dry area away from direct sunlight, moisture, excessive heat and ignition sources.



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