



Section 1. Product and Company Identification

**Product Name** Stearic Acid 90%  
**CAS Number** 57-11-4

**Parchem - fine & specialty chemicals**  
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**New Rochelle, NY 10801**  
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EMERGENCY RESPONSE NUMBER  
CHEMTEL  
Toll Free US & Canada: 1 (800) 255-3924  
All other Origins: 1 (813) 248-0585  
Collect Calls Accepted

Stearic Acid  
720082

Section 2. Hazards Identification

**Classification of the Substance or Mixture**  
**Classification (GHS-US):** Not classified

**Label Elements**  
**GHS-US Labeling:** Not applicable

**Other Hazards:** No additional information available

**Unknown Acute Toxicity (GHS-US):** No data available

Section 3. Composition / Information on Ingredients

**Common Name** Stearic Acid 90%  
**CAS Number** 57-11-4

COMPONENT	CAS NUMBER	CONCENTRATION
Stearic Acid 90%	57-11-4	> 90%
Hexadecanoic acid	57-10-3	< 10%

Section 4. First Aid Measures

**Description of First Aid Measures**

**First-aid Measures General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**First-aid Measures after Inhalation:** When symptoms occur: go into open air and ventilate suspected area. Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell.

**First-aid Measures after Skin Contact:** Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.



**First-aid Measures after Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**First-aid Measures after Ingestion:** Rinse mouth. Do NOT induce vomiting.

**Most important symptoms and effects, both acute and delayed**

**Symptoms/Injuries:** None expected under normal conditions of use.

**Symptoms/Injuries after Inhalation:** None expected under normal conditions of use.

**Symptoms/Injuries after Skin Contact:** Contact during a long period may cause light irritation.

**Symptoms/Injuries after Eye Contact:** May cause slight irritation to eyes.

**Symptoms/Injuries after Ingestion:** May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Indication of Any Immediate Medical Attention and Special Treatment Needed:** If medical advice is needed, have product container or label at hand.

Section 5. Firefighting Measures

**Extinguishing Media**

**Suitable Extinguishing Media:** Use extinguishing media appropriate for surrounding fire. Alcohol foam, carbon dioxide, dry chemical, sand.

**Unsuitable Extinguishing Media:** Do not use water jet.

**Special Hazards Arising From the Substance or Mixture**

**Fire Hazard:** Not considered flammable but will burn at high temperatures.

**Explosion Hazard:** Product is not explosive.

**Reactivity:** No reactivity hazard other than the effects described in sub-sections below.

**Advice for Firefighters**

**Firefighting Instructions:** Exercise caution when fighting any chemical fire.

**Protection during Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

Section 6. Accidental Release Measures

**Personal Precautions, Protective Equipment and Emergency Procedures**

**General Measures:** Handle in accordance with good industrial hygiene and safety practice.

**For Non-emergency Personnel**

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel. Evacuate unnecessary personnel.



**For Emergency Responders**

**Protective Equipment:** Equip cleanup crew with proper protection. Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Ventilate area.

**Environmental Precautions**

Prevent entry to sewers and public waters.

**Methods and Material for Containment and Cleaning Up**

**Methods for Cleaning Up:** Clear up spills immediately and dispose of waste safely.

**Reference to Other Sections**

See heading 8, Exposure Controls and Personal Protection.

Section 7. Handling and Storage

**Precautions for Safe Handling**

**Precautions for Safe Handling:** Avoid breathing dust. Use only outdoors or in a well-ventilated area. Handle in accordance with good industrial hygiene and safety procedures. Wear recommended personal protective equipment.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

**Conditions for Safe Storage, Including Any Incompatibilities**

**Storage Conditions:** Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep away from heat and direct sunlight.

**Incompatible Products:** Strong oxidizers.

Section 8. Exposure Controls / Personal Protection

**Control Parameters**

No Occupational Exposure Limits (OELs) have been established for this product or its chemical components.

**Exposure Controls**

**Appropriate Engineering Controls:** Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas.

Ensure all national/local regulations are observed.

**Personal Protective Equipment:** Gloves. Insufficient ventilation: wear respiratory protection. Protective goggles.

**Hand Protection:** Wear chemically resistant protective gloves.

**Eye Protection:** Chemical goggles or safety glasses.

**Skin and Body Protection:** Wear suitable protective clothing.



**Respiratory Protection:** Wear approved mask.  
**Other Information:** When using, do not eat, drink or smoke.

Section 9. Physical and Chemical Properties

**Information on Basic Physical and Chemical Properties**

**Physical State:** Solid

**Appearance:** White. Flakes, beads or in bulk, liquid.

**Odor:** Slight.

**Odor Threshold:** No data available

**pH:** Not applicable

**Relative Evaporation Rate (butylacetate=1):** No data available

**Melting Point:** 64.9 - 69.3°C (127.4 - 145.4°F)

**Freezing Point:** No data available

**Boiling Point:** 383 - 385.8°C (721.4 - 726.4°F) DIN 51751

**Flash Point:** 200°C (392°F) ASTM D92

**Auto-ignition Temperature:** No data available

**Decomposition Temperature:** No data available

**Flammability (solid, gas):** No data available

**Vapor Pressure:** 8.54E-8 hPa at 25°C

**Relative Vapor Density at 20°C:** No data available

**Relative Density:** 0.84 - 0.902 20°C

**Specific Gravity:** 0.87 g/cm<sup>3</sup> at 20°C

**Solubility:** Water: 5E-5 g/L at 20°C

**Log Pow:** No data available

**Log Kow:** No data available

**Viscosity, Kinematic:** 12 mm<sup>2</sup>/s at 70°C (ASTM D445)

**Viscosity, Dynamic:** 9.87 mPa.s

**Explosive Properties:** No data available

**Oxidizing Properties:** No data available

**Explosive Limits:** Not applicable

**Other Information** No additional information available

Section 10. Stability and Reactivity

**Reactivity:** No reactivity hazard other than the effects described in sub-sections below.

**Chemical Stability:** Stable under normal temperature and pressure.

**Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

**Conditions to Avoid:** Direct sunlight. Avoid high temperatures.

**Incompatible Materials:** Strong oxidizers.

**Hazardous Decomposition Products:** Carbon oxides (CO, CO<sub>2</sub>).



Section 11. Toxicological Information

**Information on Toxicological Effects**

**Acute Toxicity:** Not classified

**Hexadecanoic acid (57-10-3)**

**LD50 Dermal Rabbit:** > 2000 mg/kg

**Skin Corrosion/Irritation:** Not classified

**Serious Eye Damage/Irritation:** Not classified

**Respiratory or Skin Sensitization:** Not classified

**Germ Cell Mutagenicity:** Not classified

**Carcinogenicity:** Not classified

**Reproductive Toxicity:** Not classified

**Specific Target Organ Toxicity (Single Exposure):** Not classified

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified

**Aspiration Hazard:** Not classified

**Symptoms/Injuries after Inhalation:** None expected under normal conditions of use.

**Symptoms/Injuries after Skin Contact:** Contact during a long period may cause light irritation.

**Symptoms/Injuries After Eye Contact:** May cause slight irritation to eyes.

**Symptoms/Injuries After Ingestion:** May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Section 12. Ecological Information

**Toxicity**

**Hexadecanoic acid (57-10-3)**

**LC50 Fish 1:** 150 mg/l (Exposure time: 96 h - Species: *Oryzias latipes*)

**Persistence and Degradability**

**Stearic acid, 90% (57-11-4, 57-10-3)**

**Persistence and Degradability:** Easily biodegradable.

**Bioaccumulative Potential**

**Stearic acid, 90% (57-11-4, 57-10-3)**

**Bioconcentration factor (BCF REACH):** 225 L/kg.

**Bioaccumulative Potential** Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.



**Mobility in Soil**

**Hexadecanoic acid (57-10-3)**

**Log Koc:** 13.23

**Stearic acid (57-11-4)**

**Log Koc:** 51.05

**Other Adverse Effects**

**Other Information:** Avoid release to the environment.

Section 13. Disposal Considerations

**Waste Treatment Methods:** Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

In Accordance With ICAO/IATA/DOT/TDG

**UN Number:** Not applicable

**UN Proper Shipping Name:** Not regulated for transport.

**Additional Information**

**Other Information:** No supplementary information available.

**Transport by Sea:** Not regulated for transport.

**Air Transport:** Not regulated for transport.

Section 15. Regulatory Information

**US Federal Regulations**

**Hexadecanoic acid (57-10-3)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory

**Stearic acid (57-11-4)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory

**US State Regulations**

**Hexadecanoic acid (57-10-3)**

U.S. - Texas - Effects Screening Levels - Long Term

U.S. - Texas - Effects Screening Levels - Short Term

**Stearic acid (57-11-4)**

U.S. - Texas - Effects Screening Levels - Long Term

U.S. - Texas - Effects Screening Levels - Short Term



Section 16. Other Information

**Disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

REVISION DATE: 5/27/2015