



SAFETY DATA SHEET

SECTION 1 : IDENTIFICATION

Product identifier used on the label:

Product Name: Rubber Grade Stearic Acid
SDS Manufacturer Number: 97

Other means of identification:

Synonyms: Stearic Acid and Palmitic Acid Mixture; 60 R Tallow Based Stearic Acid; RGSA Tallow Flakes; Petrac 250, Vegetable Based Stearic Acid

Recommended use of the chemical and restrictions on use:

Product Use/Restriction: Used in adhesives, resinous and polymeric coatings, components of paper and paperboard in contact with aqueous and fatty foods, rubber articles intended for repeated use, surface lubricants used in the manufacture of metallic articles.

Chemical distributor, or other responsible party Name, address, and telephone number:

Distributor Name: Western Reserve Chemical Corporation
Address: 4837 Darrow Road
Stow, OH 44224
USA
General Phone Number: 330 650 2244
General Fax Number: 330 650 2255

Emergency phone number::

Emergency Phone Number: Chemtrec 1 800 424 9300 USA
Website: www.wrchem.com

SECTION 2 : HAZARD(S) IDENTIFICATION

Classification of the chemical in accordance with CFR 1910.1200(d)(f):

GHS Class: Classification of the chemical in accordance with paragraph (d) of 29 CFR 1910.1200 Combustible dust
For the full text of the H-statements mentioned in this Section, see Section 16
GHS Label elements in accordance with paragraph (f) of 29 CFR 1910.1200
Pictogram: None
Signal word :Caution
Hazard statement May form combustible dust concentrations in air
Precautionary statement :None

Hazards not otherwise classified (HNOC) or not covered by GHS: Combustible dust
Supplemental information: None

Hazards not otherwise classified that have been identified during the classification process:

Route of Exposure: Information on likely routes of exposure
Ingestion: Expected to be a low ingestion hazard.
Inhalation :Prolonged inhalation may be harmful. Inhalation of dusts may cause respiratory irritation.
Skin contact :No adverse effects due to skin contact are expected.
Eye contact :Dust in the eyes will cause irritation.

Acute Health Effects: Delayed and immediate effects and also chronic effects from short- and long-term exposure: Dusts may irritate the respiratory tract, skin and eyes.

Chronic Health Effects: Delayed and immediate effects and also chronic effects from short- and long-term exposure: Dusts may irritate the respiratory tract, skin and eyes.

Carcinogenicity: This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

Signs/Symptoms: Symptoms related to the physical, chemical and toxicological characteristics: Dusts may irritate the respiratory tract, skin and eyes

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures:

Chemical Name	CAS#	Ingredient Percent	EC Num.
Palmitic Acid	57-10-3	40- 50 %	
Stearic Acid	57-11-4	50- 60 %	

SECTION 4 : FIRST AID MEASURES

Description of necessary measures:

Eye Contact:	Do not rub eyes. Rinse with water. Get medical attention if irritation develops or persists.
Skin Contact:	Wash off with soap and water. Get medical attention if irritation develops and persists.
Inhalation:	If dust from the material is inhaled, remove the affected person immediately to fresh air. Call a physician if symptoms develop or persist
Ingestion:	Rinse mouth. Get medical attention if symptoms occur.
Notes :	Most important symptoms/effects, acute and delayed: Dusts may irritate the respiratory tract, skin and eyes. Indication of immediate medical attention and special treatment needed: Provide general supportive measures and treat symptomatically.

SECTION 5 : FIRE FIGHTING MEASURES

Suitable and unsuitable extinguishing media:

Suitable Extinguishing Media:	Alcohol resistant foam, water fog, dry chemical powder, carbon dioxide (CO2). Apply extinguishing media carefully to avoid creating airborne dust.
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.
Unusual Fire Hazards:	Specific hazards arising from the chemical: 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. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for fire-fighters:

Protective Equipment:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire. In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
Fire Fighting Instructions:	Use standard firefighting procedures and consider the hazards of other involved materials. May form combustible dust concentrations in air. Isolate fuel supply from fire.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Personal Precautions:	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Use only non-sparking tools. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of dust from the spilled material. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
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Methods and materials for containment and cleaning up:

Methods for containment:	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). The product is immiscible with water and will sediment in water systems. Stop the flow of material, if this is without risk.
Methods for cleanup:	Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Collect dust using a vacuum cleaner equipped with HEPA filter. Minimize dust generation and accumulation. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. Small Spills: Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

SECTION 7 : HANDLING and STORAGE

Precautions for safe handling:

Handling:	Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Explosion proof general and local exhaust ventilation. Minimize dust generation and accumulation. Avoid significant deposits of material, especially on horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute to secondary explosions. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing
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operations.
Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Avoid breathing dust.
Avoid contact with eyes.
Avoid prolonged exposure.
Wear appropriate personal protective equipment.
Observe good industrial hygiene practices.

Hygiene Practices: * Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities:

Storage: Conditions for safe storage, including any incompatibilities: Keep away from heat, sparks and open flame. Keep containers tightly closed in a dry, cool and well ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

Specific end use(s):

Work Practices: * Safety showers and eye wash stations should be available.

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE GUIDELINES:

Appropriate engineering controls:

Engineering Controls: Explosion-proof general and local exhaust ventilation.
*Good general ventilation (typically 10 air changes per hour) should be used.
*Ventilation rates should be matched to conditions.
*If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.
*If exposure limits have not been established, maintain airborne levels to an acceptable level.
*Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing.
*If engineering measures are not sufficient to maintain concentrations of dust particulates below the Occupational Exposure Limit (OEL), suitable respiratory protection must be worn.

Individual protection measures:

Eye/Face Protection: Use tight fitting goggles if dust is generated

Skin Protection Description: Wash and dry skin if chemical contacts skin.

Hand Protection Description: Wear appropriate chemical resistant gloves.

Respiratory Protection: If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.

Other Protective: Wear suitable protective clothing.

PPE Pictograms:



SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

PHYSICAL AND CHEMICAL PROPERTIES:

Physical State: Form: Waxy flakes or prills
Color: White to yellowish
Odor: fatty odor
Odor Threshold: Not Available
Boiling Point: Initial boiling point & range: > 572°F (300°C)
Melting Point: 131 - 140°F (55 - 60°C)
Density: Density at 70 °C: Not available
Vapor Density: Not Available
Vapor Pressure: Not Available
Evaporation Rate: Not Available
pH: pH (in H₂O): Not applicable
Coefficient of Water/Oil Distribution: Partition coefficient n-octanol/water: Not available
Flash Point: > 392°F (200°C)
Lower Flammable/Explosive Limit: Not Available
Upper Flammable/Explosive Limit: Not Available
Auto Ignition Temperature: > 482°F (250°C)

SECTION 10 : STABILITY and REACTIVITY

Reactivity:

Reactivity: The product is stable and non-reactive under normal conditions of use, storage and transport
Possibility of hazardous reactions: No dangerous reaction known under conditions of normal use.

Chemical Stability:

Chemical Stability: Material is stable under normal conditions.

Conditions To Avoid:

Conditions to Avoid: Keep away from heat, sparks and open flame. Contact with incompatible materials. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Minimize dust generation and accumulation.

Incompatible Materials:

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition Products:

Special Decomposition Products: No hazardous decomposition products are known

SECTION 11 : TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

Acute Toxicity: Not Available

Eye: Dust in the eyes will cause irritation.

Skin: No adverse effects due to skin contact are expected.

Inhalation: Prolonged inhalation may be harmful. Inhalation of dusts may cause respiratory irritation.

Ingestion: Expected to be a low ingestion hazard.

Sensitization: Respiratory or skin sensitization: This product is not expected to cause skin sensitization

Chronic Effects: Prolonged inhalation may be harmful.
Prolonged skin contact may cause temporary irritation.

Carcinogenicity: This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

Mutagenicity: Germ cell mutagenicity :No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic

Reproductive Toxicity: This product is not expected to cause reproductive or developmental effects.

SECTION 12 : ECOLOGICAL INFORMATION

Ecotoxicity:

Ecotoxicity: The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment

Persistence and degradability:

Biodegradation: No data is available on the degradability of this product.

Bioaccumulative potential:

Bioaccumulation: No data available

Mobility in soil:

Mobility In Environmental Media: Mobility in soil :No data available

Notes : No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13 : DISPOSAL CONSIDERATIONS

Description of waste:

Waste Disposal: Disposal instructions :Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations. Local disposal regulations: Dispose in accordance with all applicable regulations

Waste from residues/ unused products: Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated Packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

SECTION 14 : TRANSPORT INFORMATION

DOT UN Number: Not Regulated as Dangerous Goods

DOT Pictograms:



IATA UN Number: Not Regulated as Dangerous Goods

IATA Pictograms:



Canadian UN Number: Not Regulated as Dangerous Goods

IMDG UN Number : Not Regulated as Dangerous Goods

SECTION 15 : REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product:

US Federal: This product is not a Hazardous Chemical as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Inventory Status: All components are on the U.S. EPA TSCA Inventory List.

SARA: Immediate Hazard - No
 Delayed Hazard - No
 Fire Hazard - Yes
 Pressure Hazard - No
 Reactivity Hazard - No

Section 302 EHS: Not listed

Section 304 RQ: Not regulated

CERCLA Section 302: Not listed

Section 311/312 Hazard Categories: No

Clean Air Act: Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Not regulated
 Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated

Clean Water Act RQ: Not regulated

California PROP 65: California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins

New Jersey: Not listed

Massachusetts: Non regulated.

Pennsylvania: Not listed

Rhode Island: Not Regulated.

SECTION 16 : ADDITIONAL INFORMATION

HMIS Ratings:

HMIS Health Hazard: 1

HMIS Fire Hazard: 1

HMIS Reactivity: 0

HMIS Personal Protection: F

Health Hazard	1
Fire Hazard	1
Reactivity	0
Personal Protection	F

SDS Revision Date: October 26, 2015

Notes : Important Note: This information relates to the specific product described herein and may not be valid for this material when used in combination with other raw materials. The information provided is without warranty regarding its accuracy or completeness. The information may not be valid under all conditions. The user has the final responsibility for determining the suitability of the product in a given application.

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