



TGV SRAAC LIMITED

GONDIPARLA, KURNOOL - 518004

TGV SRAAC/MSDS/30
Rev. /Date: 01/03.07.2025



MSDS – STEARIC ACID

1. Company Identification:

TGV SRAAC LIMITED

(Formerly M/s Sree Rayalaseema Alkalies & Allied Chemicals Ltd.),

Gondiparla, Kurnool.

Phone : 08518 280006, 7, 8

Toll Free No. : 1800111735

2. Product Identification:

Chemical Name : Stearic Acid

CAS# : 57-11-4

CI# : Not available.

Synonym : Octadecanoic acid or
stearophanic acid

Chemical Formula: $C_{18}H_{36}O_2$ or $CH_3(CH_2)_{16}COOH$

3. Hazards Identification :

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

Potential	Chronic	Health	Effects:
CARCINOGENIC	EFFECTS	:	Not available.
MUTAGENIC	EFFECTS	:	Not available.
TERATOGENIC	EFFECTS	:	Not available.
DEVELOPMENTAL	TOXICITY:	Not	available.

Repeated or prolonged exposure is not known to aggravate medical condition.

4. First Aid Measures :

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. 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, remove 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 a collar, tie, belt or waistband.

Serious Ingestion: Not available

5. Fire Fighting Measures :

Flammability of the Product: May be combustible at high temperature.

Auto-Ignition Temperature: 449°C (840.2°F)

Flash Points: OPEN CUP: 230°C (446°F).

Flammable Limits: Not available.

Products of Combustion: Not available.

Fire Hazards in Presence of Various Substances

Slightly flammable to 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 and Instructions:

SMALL FIRE: Use DRY chemical powder. LARGE FIRE:

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

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

6. Accidental Release Measures:

Small Spill: Absorb with an inert material and put the spilled material in an appropriate waste disposal.

Large Spill: Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow evacuating through

the sanitary system.

7. Handling and Storage:

Precautions:

Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe dust. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, alkalies.

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

8. Exposure Controls/Personnel Protection:

Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep 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. Gloves.

Personal Protection in Case of a 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.

Exposure Limits:

TWA: 10 from ACGIH (TLV) [United States] Consult local authorities for acceptable exposure limits.

9. Physical and chemical properties:

Physical state and appearance: Solid Flakes. (Crystalline solid. Powdered solid.)

Odor : Characteristic. (Slight.) or Tallow-like (Slight.)

Taste : Not available.

Molecular Weight: 284.48 g/mole

Color : White to yellowish.

pH (1% soln/water): Not applicable.

Boiling Point : Decomposition temperature: 350°C

Melting Point: 53.5°C (128.3°F)

Chronic Effects on Humans: Not available.

Specific Gravity: 0.9408 (Water = 1)

Vapor Pressure: Not available.

Vapor Density : 9.8(Air = 1)

Volatility : Not available.

Odor Threshold: 20 ppm

Water/Oil Dist. Coeff.: The product is more soluble in oil; log(oil/water) = 8.2

Ionicity (in Water): Not available.

Dispersion Properties: See solubility in water, diethyl ether, acetone.

Solubility:

Easily soluble in diethyl ether. Soluble in acetone. Insoluble in cold water, hot water. Slightly soluble in Ethanol. Soluble in alcohol, chloroform, carbon disulfide, carbon tetrachloride, amyl acetate, toluene. 1 gram dissolves in 21 ml alcohol, 5 ml benzene, 2 ml chloroform, 26 ml acetone, 6 ml carbon tetrachloride, 3.4 ml carbon disulfide.

10. Stability and reactivity:

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Heat, incompatible materials, dust generation, ignition sources

Incompatibility with various substances:

Reactive with oxidizing agents, alkalies.

Corrosive: Non-corrosive in presence of glass.

Special Remarks on Reactivity : Not available.

Special Remarks on Corrosively: Not available.

Polymerization: Will not occur.

11. Toxicological Information :

Routes of Entry: Inhalation. Ingestion.

Toxicity to Animals:

Acute oral toxicity (LD50): 4640 mg/kg [Rat]. Acute dermal toxicity (LD50) : >5000 mg/kg [Rabbit].



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Other Toxic Effects on Humans: Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on other Toxic Effects on Humans:

Acute Potential Health Effects: May cause skin irritation. Eyes: May cause eye irritation. Inhalation: May cause respiratory tract irritation. Symptoms may include coughing, sore throat, labored breathing, and chest pain. Ingestion: Ingestion of large oral doses may cause irritation to the gastrointestinal tract. Ingestion may also cause intestinal obstruction.

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 product itself and its products of degradation are not toxic.

Special Remarks on the Products of Bio degradation: Not available.

13. Disposal Consideration:

Waste Disposal:

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

14. Transport Information:

DOT Classification: Not a DOT controlled material (United States).

Identification : Not applicable.

Special Provisions for Transport: Not applicable.

15. Regulatory Information:

Federal and State Regulations: TSCA 8(b) inventory: Stearic acid

Other Regulations: EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

DSCL (EEC):

This product is not classified according to the EU regulations. Not applicable.

HMIS (U.S.A.):

Health Hazard : 1

Fire Hazard : 1

Reactivity : 0

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health : 1

Flammability : 1

Reactivity : 0

Specific hazard: Not applicable.

Protective Equipment: Lab coat, Safety glasses.

Local Regulatory bodies:

APPCB, KURNOOL

Dy. Chief Inspector of Factories,
Kurnool.

16. Other Information:

Information containing in this MSDS is believe to be reliable. But no guarantee is made as to its accuracy, suitability for a particular application or results to be obtained from them.

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