**NEATSFOOT OIL**

The Neatsfoot Oil Refineries Corporation

**SAFETY DATA SHEET (SDS)**

# Hydrogenated Tallow Oil

Hydrogenated Tallow Oil is supplied within the Special Tallows range for industrial processing and formulation applications. CAS No. 61789-97-7.

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|---|---|
| **DOCUMENT TYPE** | Safety Data Sheet (SDS) |
| **PRODUCT CODE** | NFO-CAT-037 |
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# SAFETY DATA SHEET (SDS)

**NFO-Hydrogenated Tallow Fatty Acids (HTFA)** **SDS Preparation date 03/02/2024**

| Section 1. Identification | |
|---|---|
| **1.1 Product identifier** | **NFO-Hydrogenated Tallow Fatty Acids (HTFA)** |
| **1.2 Other means of identification** | **Mixture of Hydrogenated Tallow fatty acids.** |
| **1.3 Recommended use and restrictions on use** | **Recommended: Laboratoy and specific industrial use only (Stabilizer in PVC, Lubricants & Greases, soaps and Cosmetic industries.** |
| **1.4 CAS NO/s** | **57-11-4** |
| **1.5 Initial supplier identifier** | **Polyrheo Inc.<br>217 Boulevard Brunswick<br>Point Claire, Québec, H9R 4R7.<br>Tel : +1 514 457-5004** |
| **1.6 Emergency telephone number/restriction on use** | **Canada – CANUTEC 24-hour# 613-996-6666** |

## Section 2. Hazard identification

**2.1. Classification of the Substance or Mixture**

**GHS-US classification**

Not classified.

**Physical Hazards:**

Not classified.

**Health Hazards:**

Not classified

**OSHA defined Hazards:**

Not Classified.

**2.2. Label Elements**

**GHS-US Labeling**

No labeling applicable.

**Hazard Symbol**

None

**Signal Word**

None

**Hazard Statement**

The mixture does not meet the criteria for classification.

**2.3 Precautionary Statement.**

**Prevention**

Observe good industrial hygiene practices.

**Response**

Wash hands after handling.

**Storage**

Store away from incompatible materials.

**Disposal**

Dispose of waste and residues in accordance with local authority requirements.

**Hazard(s) not otherwise classified (HNOC)**

None known

**2.4. Other Hazards**
No additional information available.

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

## Section 3. Composition/information on ingredients

| Chemical name-Components | CAS number | Concentration (%) | GHS-US classification |
|---|---|---|---|
| Stearic Acid | 57-11-4 | **60-100** | Comb. Dust, H232 |
| The components are not hazardous or are below required disclosure limits, | | | |

## Section 4. First-aid measures

**4.1 Description of measures:**
**Inhalation:**
If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.
Call a physician if symptoms develop or persist.
**Skin contact:**
Rinse skin with water/shower. Get medical attention if irritation develops and persists.
**Eye contact**
Rinse with water. Get medical attention if irritation develops and persists.
**Ingestion**
Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.

**4.2 Most important symptoms/effects, 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 slight irritation.
**Symptoms/Injuries After Eye Contact:** May cause slight irritation to eyes.
**Symptoms/Injuries After Ingestion: If a large quantity has been ingested:** May cause nausea, vomiting, and diarrhea.

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

## Section 5. Fire-fighting measures

**5.1. Extinguishing Media:**
Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire. Alcohol foam, carbon dioxide, dry chemical. Sand.
For large fire: Water spray.

**Unsuitable Extinguishing Media:**
Do not use water jet.
**5.2. Special Hazards Arising from the Substance or Mixture:**

**Fire Hazard:** Not flammable.
**Explosion Hazard.**
Product is not explosive.
**Reactivity.**
Product is stable.

**5.3. 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.

## Section 6. Accidental release measures

**6.1. Personal Precautions, Protective Equipment and Emergency Procedures**
**General Measures:**
Handle in accordance with good industrial hygiene and safety practice.
**6.1.1. For Non-emergency Personnel**
**Protective Equipment:**
Use appropriate personal protection equipment (PPE).
**Emergency Procedures:**
Evacuate unnecessary personnel.
**6.1.2. For Emergency Responders**
Protective Equipment: Equip cleanup crew with proper protection.
Emergency Procedures: Ventilate area.
**6.2. Environmental Precautions**
Prevent entry to sewers and public waters.
**6.3. Methods and Material for Containment and Cleaning Up**
**For Containment:**
Contain and collect as any solid.
**Methods for Cleaning Up:**
Clean up spills immediately and dispose of waste safely.
**6.4. Reference to Other Sections**
See heading 8, Exposure Controls and Personal Protection.

## Section 7. Handling and storage

**7.1. Precautions for Safe Handling**
**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. Keep away from heat, sparks, open flames, hot surfaces. – No smoking.
**7.2. Conditions for Safe Storage, Including Any Incompatibilities**
**Technical Measures:** Good housekeeping is needed during storage, transfer, handling, and use of this material to avoid excessive dust accumulation. Avoid creating or spreading dust.
**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.
**7.3. Specific End Use(s)**
**Stabilizer in PVC; Lubricants & Greases; Personal Care Products**

## Section 8. Exposure controls/Personal protection

**8.1. Control Parameters**
For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).
**8.2. Exposure Controls**




**Appropriate Engineering Controls:**
Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.
**Personal Protective Equipment:**
Gloves. Protective goggles.
**Hand Protection:**
Wear chemically resistant protective gloves.
**Eye Protection:**
Chemical goggles or safety glasses.
**Respiratory Protection:**
Wear approved mask.
**Other Information:**
When using, do not eat drink or smoke.

| PROPERTIES | SPECIFICATIONS |
|---|---|
| Physical State | Solid @ 20 °C. Liquid above 60° C |
| Appearance. | White, waxy, flakes. |
| Odor | Faint odor |
| Odor Threshold | No data available |
| pH | Not applicable |
| Relative Evaporation Rate (butylacetate=1) | No data available |
| Melting Point | No data available |
| Freezing Point | No data available |
| Boiling Point- °C/°F | (205 – 225) (401 - 437) |
| Flash Point - °C/°F | 180-356 |
| Auto-ignition Temperature - °C/°F | 350-662 |
| Decomposition Temperature | No data available |
| Flammability (solid, gas) | No data available |
| Vapor Pressure | No data available |
| Relative Vapor Density at 20/68- °C/ °F | No data available |
| Relative Density | No data available |
| Specific Gravity @ 75/166 -°C/°F / g/ml | 0.85 |
| Solubility | Insoluble in water<br>Organic solvent : Soluble in many organic solvents |
| Partition Coefficient: N-Octanol/Water | > 3 Estimated |
| Viscosity @65 °C/°F mPa.s | 10 |
| Explosive Properties | No data available |
| Oxidizing Properties | No data available |
| Explosive Limits : Not applicable | Not applicable |
| Solidification point °C/F) | 60/140 |

## Section 10. Stability and reactivity

**10.1 Reactivity:**
The product is stable and non-reactive under normal conditions of use, storage and transport
**10.2 Chemical Stability:**
Stable under normal temperatures and pressures.
**10.3 Possibility of Hazardous Reactions:**
No dangerous reaction known under conditions of normal use.
**10.4 Conditions to Avoid:**

Contact with incompatible materials.

**10.5 Incompatible Materials:**

Oxidizing materials: Strong oxidizing agents.

**10.6 Hazardous Decomposition Products:**

No hazardous decomposition products are known.

## Section 11. Toxicological information

**11.1. Information On Toxicological Effects**

**Acute Toxicity:** Not classified.

**Hydrogenated Tallow Fatty Acid (57-11-4)**

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

**LD50 Oral Rat > 5000 mg/kg**

**LD50 Dermal Rat > 2000 mg/kg**

**Skin Corrosion/Irritation**: Not classified.

**pH:** Not applicable.

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

**pH:** Not applicable

**Respiratory or Skin Sensitization:** Not classified.

**Germ Cell Mutagenicity:** Not classified.

**Carcinogenicity:** Not classified.

**Hydrogenated Tallow Fatty Acid (57-11-4)**

**Reproductive Toxicity:** Not classified.

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

**Hydrogenated Tallow Fatty Acid (57-11-4)**

**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 slight irritation.

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

**Symptoms/Injuries** After Ingestion: If a large quantity has been ingested: May cause nausea, vomiting, and diarrhea.

## Section 12. Ecological information

**2.1 Toxicity:**

No additional information available.

**12.2 Persistence and Degradability:**

**Hydrogenated Tallow Fatty Acid (57-11-4)**

**Persistence and Degradability:** Easily biodegradable.

**12.3 Bioaccumulative Potential**

**Hydrogenated Tallow Fatty Acid (57-11-4)**

**Bioaccumulative Potential :** Not expected to bioaccumulate.

**12.4. Mobility in Soil :**

Stearic acid (57-11-4)

**Log Koc:** 51.05

**12.5. Other Adverse Effects :**

**Other Information:**

Avoid release to the environment.

## Section 13. Disposal considerations

**Disposal instructions** :
Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
**Local disposal regulations**
Dispose in accordance with all applicable regulations.
**Hazardous waste code:** The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
**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

**Accordance With ICAO/IATA/IMDG/DOT**
**14.1. UN Number:**
Not regulated for transport.
**14.2. UN Proper Shipping Name:**
**Not regulated for transport**
**14.3. Additional Information**
**Transport by Sea:**
Not regulated for transport.
**Air :**
Transport Not regulated for transport .

## Section 15. Regulatory information

**15.1 US Federal Regulations**
**Stearic acid (57-11-4)**

Listed on the United States TSCA (Toxic Substances Control Act) Active inventory issued 6/2020.
**15.2 US State Regulations Neither this product nor its chemical components appear on any US state lists.**

## Section 16. Other information

**16.1 Other Information:**
This document has been prepared in accordance with the SDS.
requirements of the OSHA Hazard Communication Standard 29 CFR.
1910.1200.
**Section 9 –** physical properties updated.
**Section 15 –** TSCA information revised.
**NFPA ratings**




**GHS Full Text Phrases:**
------ Comb. Dust Combustible Dust.
------ H232 May form combustible dust concentrations in air.

**Disclaimer:**
Information provided in this Safety Data Sheet is correct to the best knowledge, and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.