

# Material Safety Data Sheet

**PRODUCT NAME: HYDROGENATED TALLOW FATTY ACID**

## IDENTIFICATION AND DISTRIBUTOR INFORMATION

TRADE NAME: HYDROGENATED TALLOW FATTY ACID  
CAS #: 57-11-4  
DATE: June 17, 2008

DISTRIBUTOR: ACME-HARDESTY COMPANY  
ADDRESS: 450 Sentry Parkway  
Blue Bell, PA 19422

TELEPHONE: (866) 226 – 3834  
FAX: (215) 591 – 3620  
EMERGENCY: CHEMTREC (800) 424-9300

## COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT NAME	CAS #	% (w/w)	OSHA PEL	ACGIH TLV
Saturated straight chain aliphatic monocarboxylic acids mainly Palmitic and Stearic Acids	57-11-4	-----	No PEL Established	No TLV Established

Ingredients not precisely identified are proprietary or non hazardous. Values are not product specifications.

## HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW:

COLOR: White  
FORM: Solid @ 20°C  
ODOR: Faint Odor

INHALATION: May cause mucous membrane irritation  
INGESTION: May cause mucous membrane irritation  
EYES: May cause eye irritation

May form explosive dust clouds in air

Limited toxicity data is available on this specific product; this health hazard assessment is based on the results of screening tests.

### ROUTES OF EXPOSURE:

EYE CONTACT: May cause eye irritation in man  
SKIN CONTACT: No irritation is likely to develop following short contact periods with human skin  
This product will probably not be absorbed through human skin  
INHALATION: Unlikely to be hazardous by inhalation because of the low vapor pressure of the material at ambient temperature.  
Vapors and aerosols will probably irritate respiratory passages.  
No toxic effects are known to be associated with inhalation of this material.

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HAZARDS IDENTIFICATION (cont'd)

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**INGESTION:** Low oral toxicity, but ingestion may cause irritation of the gastrointestinal tract.  
No toxic effects are expected following ingestion of this product.

**OTHER:** Not listed by ACGIH, IARC, NIOSH, NTP or OSHA.

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FIRST AID MEASURES

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**EYE CONTACT:** Immediately flush with plenty of water for at least 15 minutes  
If redness, itching, or burning sensation develops, have eyes examined and treated by medical personnel

**SKIN CONTACT:** Wash material off of the skin with plenty of soap and water  
If redness, itching, or a burning sensation develops, get medical attention

**INHALATION:** Remove victim to fresh air  
If cough or other respiratory symptoms develop, consult medical personnel

**INGESTION:** DO NOT INDUCE VOMITING  
Give one or two glasses of water to drink and refer to medical personnel or take direction from either a physician or a poison control center  
Never give anything by mouth to an unconscious person

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FIRE-FIGHTING MEASURES

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**FLASH POINT:** 365°F, 180°C (open cup)

**AUTOIGNITION TEMP:** 662°F, 350°C

**FLAMMABLE LIMITS:** No data.

**EXTINGUISHING MEDIA:** Water fog, alcohol foam, carbon dioxide, or dry chemical

**SPECIAL FIRE FIGHTING/ PROTECTIVE EQUIPMENT:** A self contained breathing apparatus and suitable protective clothing must be worn in fire conditions.

**FIRE AND EXPLOSION HAZARDS:** The material may form explosive dust clouds in air.

**COMBUSTION PRODUCTS:** Thermal decomposition will evolve irritant vapors.

**EXPLOSION DATA:**

**SENSITIVITY TO MECHANICAL IMPACT:** No data.

**SENSITIVITY TO STATIC DISCHARGE:** No data.

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ACCIDENTAL RELEASE MEASURES

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**PERSONAL PRECAUTIONS:**  
Refer to Exposure Controls/Personal Protection section

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**  
Contain spill.  
Sweep up and recover or mix material with a moist absorbent and shovel into a chemical waste container.  
Wash residue from spill area with water containing detergent and flush to a sewer services by a permitted wastewater treatment facility.

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HANDLING AND STORAGE

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**HANDLING:** Normal precautions should be observed as for handling all chemicals  
Control dust formation  
Extra care should be taken to prevent burns from contact with hot material  
Follow procedures specified in the National Fire Protection Association Codes and Standards for handling combustible dust Maintain good housekeeping to avoid dust buildup  
Prevent Eye contact  
Avoid breathing vapors or aerosols  
Do not swallow

**SPECIFIC USES OF THE PRODUCT:** Smoldering can occur upon leakage onto fibrous insulation material

**STORAGE:** Store in original containers

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EXPOSURE CONTROLS / PERSONAL PROTECTION

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**EXPOSURE LIMITS:**

OSHA PEL:

COMPONENT NAME	EXPOSURE LIMITS	NOTES
No OSHA PEL assigned. Minimize exposure in accordance with good hygiene practice	-----	-----

ACGIH TLV:

COMPONENT NAME	EXPOSURE LIMITS	NOTES
No ACGIH TLV assigned. Minimize exposure in accordance with good hygiene practice	-----	-----

**ENGINEERING CONTROLS:** Provide adequate ventilation  
**EYE PROTECTION:** Chemical tight goggles  
**PROTECTIVE CLOTHING:** Impervious gloves  
**RESPIRATORY PROTECTION:** Respiratory protection is not normally needed if controls are adequate  
**OTHER:** Eyewash and safety shower easily accessible to the work area

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PHYSICAL AND CHEMICAL PROPERTIES

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**APPEARANCE & ODOR:** White  
**FORM:** solid @ 20°C  
**ODOR:** Faint odor  
**pH:** No applicable  
**BOILING POINT:** 401-437°F, 205-225°C (10 hPa)  
**FLASH POINT:** 356°F, 180°C (open cup)  
**AUTOIGNITION TEMPERATURE:** 662°F, 350°C  
**FLAMMABLE LIMITS:** No data  
**EXPLOSIVE PROPERTIES:** No data  
**OXIDIZING PROPERTIES:** Not to be expected  
**SOLUBILITY IN WATER:** Insoluble  
**SOLUBILITY IN OTHER MATERIALS:** Soluble in many organic solvents  
**PARTITION COEFFICIENT:** >3 (estimated)  
**DYNAMIC VISCOSITY (mPa.s)** 10 @ 65°C  
**DENSITY (g/ml):** 0.85 @ 75°C  
**SOLIDIFICATION POINT:** 140°F, 60°C

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STABILITY AND REACTIVITY

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STABILITY: Stable under normal conditions  
MATERIALS TO AVOID: Strong oxidizing agents  
CONDITIONS TO AVOID: None known  
HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition will evolve irritant vapors  
HAZARDOUS POLYMERIZATION: Will not occur

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TOXICOLOGICAL INFORMATION

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EYE CONTACT:  
A 100% SUSPENSION OF THIS MATERIAL WAS TESTED  
Rabbit – Draize - Nonirritating

SKIN CONTACT:  
A 100% SUSPENSION OF THIS MATERIAL WAS TESTED  
Rabbit – Draize – 24 hours - Nonirritating

INGESTION:  
LD50 RAT >2 g/kg      Practically Nontoxic

CHRONIC:  
A chronic ingestion study in animals has shown that repeated doses produce no significant effects

CARCINOGENITY:  
Studies in animals have shown that repeated doses produce no carcinogenic effects

MUTAGENICITY:  
There is no evidence of mutagenic potential.  
Ames test: Negative

TOXICOLOGICALLY SYNERGISTIC PRODUCTS:  
None known.

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ECOLOGICAL INFORMATION

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The ecological information listed below is based on the results of screening tests.

ENVIRONMENTAL FATE & DISTRIBUTION: The product is essentially insoluble in water

PERSISTENCE & DEGRADATION: (OECD 301B) (28 days) >70%

TOXICITY: Not toxic at concentrations well above the water solubility  
LC50 (48 hour) Cyprinus carpio >1000 mg/l  
EC50 (16 hour) Pseudomonas putida >100 mg/l

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DISPOSAL CONSIDERATIONS

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RCRA (RESOURCE CONSERVATION AND RECOVERY ACT) CLASSIFICATION:

SPECIFICALLY LISTED: Not applicable

WASTES:

CHARACTERISTIC WASTES:

IGNITABILITY:	Not applicable
CORROSIVE:	Not applicable
REACTIVITY:	Not applicable
Toxicity:	Not applicable

DISPOSAL METHOD:

Disposal should be in accordance with local, state or national legislation

CONTAINER DISPOSAL:

Empty container retains product residue  
Observe all hazard precautions  
Do not distribute, make available, furnish or reuse empty container except for storage and shipment of original product  
Remove all product residue from container and puncture or otherwise destroy empty container before disposal

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TRANSPORT INFORMATION

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DEPARTMENT OF TRANSPORTATION:	Not regulated
TDG (Transportation of Dangerous Goods):	Not regulated
NOT CLASSIFIED IN:	RID/ADR – ADNR – IMDG – ICAO/IATA – DGR

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REGULATORY INFORMATION

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INVENTORY STATUS:

EU(EINECS/ELINCS/NLP):	Compliant
USA (TSCA):	Compliant
CANADA (DSL):	Compliant
AUSTRALIA (AICS):	Compliant
JAPAN:	Compliant
CHINA (IECSC):	Compliant
KOREA (ECL):	Compliant
PHILIPPINES (PICCS):	Compliant

OSHA HAZARD COMMUNICATION STANDARD 29 CFR 1910.1200, HAZARD SUMMARY:

HEALTH HAZARDS:	Irritant (eye)
PHYSICAL HAZARDS:	None

WHMIS CLASSIFICATION:

Noncontrolled (nonhazardous)

CERCLA AND SARA REGULATIONS (40 CFR 355, 370, and 372):

No SARA 313-listed chemicals in this product

SARA 311/312 HAZARD CATEGORIES:

IMMEDIATE:	Y
DELAYED:	N
FIRE:	N
PRESSURE:	N
REACTIVITY:	N

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OTHER INFORMATION

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NFPA and HMIS ratings are assigned to this product based on the hazards of its ingredient(s). Because the customer is most aware of the application of the product, customer must ensure that the proper personal protective equipment is provided with information contained in the product MSDS.

**HMIS** Information:      Health:            1  
                                 Flammability:      1  
                                 Reactivity:         0

The HMIS ratings displayed above are from the HMIS III Third Edition. There have been significant changes made to the system. "Physical Hazard" stands for physical hazard as defined in the OSHA Hazard Communication Standard and replaces the former code for reactivity.

**NFPA** Information:      Health:            1  
                                 Flammability:      1  
                                 Reactivity:         0

This information is intended solely for the use of individuals trained in the particular hazard rating system.