

# BLEACHABLE FANCY TALLOW

## TYPICAL ANALYSIS

Moisture	0.50%
Total Fatty Acids	90.00%
Free Fatty Acids	4.00%
Impurities (I)	0.15%
Unsaponifiabiles (U)	0.50%
Total MIU	1.00%
Iodine Value	57 Maximum
FAC Color	19 Typical
PCB's/Pesticides	U.S. Government tolerances
AOM Stability	Under 20 MEQ/KG

Analysis are updated periodically and may vary slightly from previous versions.

Approved plant of:

- Animal Protein Producers Institute (APPI) Code of Practice Voluntary Salmonella Reduction Program
- Food & Drug Administration (FDA) Registered
- Animal & Plant Health Inspection Service (APHIS)
- Hazard & Critical Control Point (HACCP)

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Transforming sustainable resources into  
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## SAFETY DATA SHEET

### 1. Identification

**Material name**

**Bleachable Fancy Tallow**

**Recommended Use:**

Feed/Pet Food ingredient, raw material for the manufacture of Chemicals/Biofuels

**Restrictions:**

Tallow from bovine/bison sources restricted in U.S., Canada and European Union from use in feed to ruminants when Insoluble content is >0.15%.

**Version #**

01

**Revision Date**

1/10/2014

**CAS #**

68475-81-0

**Manufacturer**

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1-800-800-4841

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### 2. Hazards Identification

**Emergency overview**

Clear to light brown liquid, solidifies at room temperature

#### HEALTH HAZARDS

PRACTICALLY NON-TOXIC

#### FLAMMABILITY HAZARDS

NOT A FLAMMABLE OR COMUSTIBLE MATERIAL PER OSHA 29 CFR 1910.1200©

#### REACTIVITY HAZARDS

STABLE

**Potential health effects**

**Routes of exposure**

Inhalation, ingestion, skin and eye contact

**Eyes**

If irritation should occur, it is expected to be transient

**Skin**

Prolonged or excessive skin contact with this product may cause mild skin irritation. May cause an allergic reaction in some individuals.

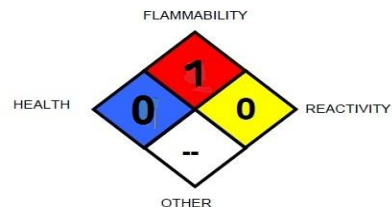
**Inhalation**

Under normal condition, inhalation is not expected to be a problem. However, respirator tract irritation may occur if exposed to fumes or mists.

**Ingestion**

Ingestion of large amounts may cause gastrointestinal disturbances. May cause allergic reactions in some individuals.

#### NFPA RATING



Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate  
3 = Serious 4 = Severe

### 3. Composition/information on ingredients

<b>Components</b>	<b>CAS#</b>	<b>Percent</b>
Tallow - Derived from cooked animal by-products	N/A	100%
<b>Impurities</b>	<b>CAS#</b>	<b>Percent</b>
FREE FATTY ACIDS	Mixture	<4
UNSATURATED	Mixture	<1.0
WATER	7732-18-5	<1
INSOLUBLE IMPURITIES	Mixture	<0.5

**Synonyms:** Animal Fat, Tallow, Extra Fancy Tallow, Tallow Oil, Inedible Tallow, Edible Tallow

#### Composition comments

Values do not reflect absolute minimums and maximums: these values are typical which may vary from time to time.

This Material Safety Data Sheet is intended to communicate potential health hazards and potential physical hazards associated with the product(s) covered by this sheet, and is not intended to communicate product specification information. For product specification information, contact your DarPro representative.

#### Additives:

May contain anti-oxidant (Stabilizer). See attached Anti-Oxidant SDS if anti-oxidant is present.

#### Hazardous concentration range:

N/A

### 4. First aid measures

#### First aid procedures

##### Eye contact

Flush eyes immediately with large amounts of water. Get medical attention if irritation persists.

##### Skin contact

Under normal transport conditions, liquid may be hot enough to burn exposed skin. Wash area thoroughly with soap and water. Get medical attention if irritation develops or persists.

##### Inhalation

Not expected to be an inhalation hazard.

##### Ingestion

For larger amounts, do not induce vomiting, but give one or two glasses of water to drink and get medical attention. Never give anything by mouth to an unconscious.

#### Notes to physician

Treat symptomatically.

## 5. Fire-fighting measures

<b>Flammable properties</b>	Material will burn in a fire.
<b>Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Use dry chemical, carbon dioxide or fire-fighting foam for Class B fires to extinguish fire. Water may be ineffective on fire. Material floats on water.
<b>Protection of firefighters</b>	
<b>Specific hazards arising from the chemical</b>	Combustion may produce COx and other decomposition products in the case of incomplete combustion.
<b>Fire fighting equipment/instructions</b>	Evacuate area and fight fire from a safe distance. Use water spray to cool adjacent structures and to protect personnel. Stay away from storage tank ends. Withdraw immediately in case of rising sound from venting safety device or any discoloration of storage tank due to fire.  Firefighters must wear NIOSH approved positive pressure breathing apparatus (SCBA) with full face mask and full protective equipment.

## 6. Accidental release measures

<b>Environmental precautions</b>	If material is released to the environment, take immediate steps to stop and contain release. Caution should be exercised regarding personnel safety and exposure to the released material. Notify local authorities and the National Response Center, if required. Material may plug water intakes.  Waste Disposal Method - Rendering (reprocessing), not to be landfilled. Do not flush to sewer.
<b>Other Information</b>	Spills can be very slippery. Liquid may be mopped-up, soaked-up with inert absorbents, or pumped. Material may solidify at ambient temperature and can be removed with a shovel or front end loader. Wash floors with soap and hot water and rinse with hot water. Absorb spill with inert material (e.g. dry sand or earth) then place in a chemical waste container. Large Spills: Dike far ahead of liquid spill for later disposal. Solidified material may be removed with a shovel.  Stop leak when safe to do so.  See Exposure Controls. Personal Protection (Section 8)
<b>Emergency action</b>	Keep unnecessary people away; isolate hazard area and deny entry. IF TANK, RALCAR OR TANK TRUCK IS INVOLVED IN A FIRE, isolate for 800 meters (1/2 mile) in all directions. Evacuate area endangered by release as required. (See Exposure Controls/Personal Protection, Section 8) Stay upwind.

## 7. Handling and storage

### Handling

Standard precautions appropriate for handling hot liquids

Good personal hygiene practices such as properly handling contaminated clothing, using wash facilities before entering public areas and restricting eating, drinking and smoking to designated areas are essential for preventing personal chemical contamination. do not breathe fumes or vapor. Avoid contact with skin or eyes.

### Storage

Store in tightly closed containers in a cool, dry isolated, well-ventilated area away from heat, sources of ignition and incompatibles. Avoid contact with strong oxidizers.

Empty containers may contain material residue. Do not reuse without adequate precautions.

Do not eat, drink or smoke in areas of use or storage.

## 8. Exposure controls/personal protection

### Occupational exposure limits

Not available

### Engineering controls

Ventilation and other forms of engineering controls are the preferred means for controlling exposures.

### Personal protective equipment

#### Eye / face protection

Keep away from eyes. Eye contact can be avoided by using chemical safety glasses, goggles and/or face shield. Have eye washing facilities readily available where eye contact can occur.

#### Skin protection

Avoid skin contact with this material. Use appropriate chemical protective gloves when handling. Additional protective clothing may be necessary. Material may be HOT.

#### Respiratory protection

A NIOSH approved air purifying respirator with an appropriate cartridge or canister, such as an organic vapor cartridge, may be used in circumstances where airborne organic vapor concentrations may exceed exposure limits. Protection provided by air purifying respirators is limited Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or an other circumstances where air purifying respirators may not provide adequate protection. See OSHA 29 CFR 1910.134 for more information regarding respiratory protection and Assigned Protection Factors (APFs).

## 9. Physical and chemical properties

Physical State Form	Liquid
Color	Clear to light brown
Odor	Characteristic
Odor threshold	Characteristic
Physical State Form	Not available
Vapor Pressure	Not available
Vapor density	Exceeds 1.0
Boiling Point	N/D
Melting point/freezing point	125 °F (52 C)
Solubility (water)	Insoluble
Specific gravity	0.89 @ 140° F (60° C)
Relative density	Not available
Flash point	> 600° F (316° C)
Flammability limits in air, upper, % by volume	Not available
Flammability limits in air, lower, % by volume	Not available
Auto-ignition temperature	Not available
VOC	Not available
Evaporation rate	Not available
Viscosity	Not available
Percent volatile	Not available
Partition coefficient (n-octanol/water)	Not available
Pour point	125 °F (52 C)
Molecular weight	Not available
Molecular formula	Not available
Other Data	
Chemical family	Triglycerides
Density	0.92 g/ml at 60 F (15.6)
Electrostatic properties Conductivity	Not available
Cloud point	Not available

## 10. Stability and reactivity

Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Avoid unventilated areas, excessive heat, open flames, sparks and ungrounded electrical equipment.
Incompatible materials	Incompatible with alkali metals, nitrides, strong reducing agents and strong iodizing agents. See precautions under Handling & Storage (Section 7)
Hazardous decomposition products	Not anticipated under normal conditions.
Possibility of hazardous reactions	Not anticipated under normal conditions.

## 11. Toxicological information

Routes of exposure	Inhalation, ingestion, skin and eye contact
Numerical measures of toxicity	N/A
Eye contact	Get medical attention if eye irritation persists.
Skin contact	Get medical attention if skin irritation develops or persists.
Inhalation	If breathing difficulty occurs, get medical attention .
Ingestion	Routine use of this product is not expected to cause any situation which could lead to ingestion.

## 12. Ecological information

Ecotoxicity	Material not classified as harmful to aquatic organisms. However, secondary effects such as lowered dissolved oxygen when introduced to surface water can be toxic to aquatic life.
Persistence and degradability	Readily biodegradable in the environment
Bioaccumulation/ Accumulation	This material is not expected to bio accumulate in aquatic animals.
Mobility in environmental media	Not classified in terms of mobility in air, soil and water.

## 13. Disposal considerations

Disposal instruction	<p>This material, as supplied, when discarded or disposed of, is not a hazardous waste according to Federal Regulations (40 CFR 261). Under the Resource Conservation and Recovery Act. (RCRA), it is the responsibility of the user of the material to characterize and determine, at the time of disposal, whether the material is a hazardous waste subject to RCRA.</p> <p>For additional handling information and protection of employees, see Section 7 (Handling and Storage) and Section 8 (Exposure Controls/Personal Protection).</p>
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## 14. Transport information

General	BILL OF LADING - BULK (U.S. DOT): Non-regulated by DOT BILL OF LADING - NON-BULK (U.S. DOT): Non-regulated by DOT
UN number (United Nations hazardous material #)	Not a hazardous material

## **15. Regulatory information**

### **US federal regulations**

All ingredients are on the TSCA inventory, or are not required to be listed on the TSCA inventory.

This material does not contain toxic chemicals (in excess of the applicable de minimis concentration) that are subject to the annual toxic chemical release reporting requirements of the Superfund Amendments and Reauthorization Act (SARA) Section 313 (40 CFR 372).

Check local, regional or state/provincial regulations for any additional requirements as these may be more restrictive than federal laws and regulations. Failure to report may result in substantial civil and criminal penalties.

### **U.S. regulations**

Regulated under U.S. FDA Feed Rule 21CFR589.2000/21CFR589.2001 if contains greater than 0.15% Insolubles derived from Bovine/Bison materials.

### **State regulations**

Based on available information this product does not contain any components or chemicals currently known to the State of California to cause cancer, birth defects or reproductive harm at levels which would be subject to Proposition 65. Reformulation, use or processing of this material may affect its composition and require re-evaluation.



## 16. Other information

### NFPA ratings

Health: 0

Flammability: 1

Instability: 0

### Disclaimer

NOTICE: The information presented herein is based on data considered to be accurate as of the date of preparation of this Material Safety Data Sheet. Adequate training and instruction should be given by you or your employees and affected personnel. Appropriate warnings and safe handling procedures should be provided by you to handlers and users. Appropriate warnings and safe handling procedures should be provided by you to handlers and users. Additionally, the user should review this information, satisfy itself as to its suitability and completeness, and pass on the information to its employees or customers in accordance with the applicable federal, state, provincial or local hazard communication requirements. This MSDS may not be used as a commercial specification sheet of manufacturer or seller, and no warranty or representation, expressed or implied, is made as to the accuracy or comprehensiveness of the foregoing data and safety information, nor is any authorization given or implied to practice any patented invention without a license. In addition, vendor neither assumes nor retains any responsibility for any damage or injury resulting from abnormal use, from any failure to adhere to appropriate practices, or from any hazards inherent in the nature of the material. Moreover, unless an employee or a customer accesses or receives a MSDS directly from the company, there is no assurance that a document obtained from alternate sources is the most currently available MSDS.

### Issuer data

1/10/2014

### This data sheet contains changes from the previous version in section(s):

Handling and storage: Handling

Exposure controls/personal protection: Skin Protection

Physical & Chemical Properties: Multiple Properties

### Completed by

Darling International Inc. - Research, Technology and Governmental Affairs