

MATERIAL SAFETY DATA SHEET

MSDS V-108 REVISION 4

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SUBSTANCE IDENTIFICATION

SUBSTANCE: FATTY ACID

TRADE NAMES/SYNONYMS: **DISTILLED BLEACHABLE FANCY BEEF FATTY ACID**
TALLOW FATTY ACID

CHEMICAL FAMILY: ALIPHATIC CARBOXYLIC ACIDS

I.D. NUMBER: 800328

NFPA RATINGS (Scale 0-4, where 4=high degree of hazard): HEALTH=1 FLAMMABILITY=1 REACTIVITY=0
HMIS RATINGS (Scale 0-4, where 4=severe hazard): HEALTH=1 FLAMMABILITY=1 REACTIVITY=0

HAZARDOUS INGREDIENT INFORMATION

COMPONENT: **FATTY ACIDS, C₁₄₋₁₈ & C₁₆₋₁₈ UNSATURATED** CAS# 67701-06-8

CARCINOGEN STATUS OF COMPONENTS: None listed as carcinogenic by NTP, IARC, or OSHA.

PHYSICAL AND CHEMICAL DATA

DESCRIPTION: An off-white, solid material with a characteristic tallow odor.

ACID VALUE: 204-208 range.

SOLUBILITY IN WATER: Practically insoluble.

SOLVENT SOLUBILITY: Organic solvents, such as alcohol and benzene.

FIRE AND EXPLOSION DATA

FLASHPOINT: ≈ 365 °F (COC). OSHA FLAMMABILITY CLASSIFICATION: III B

FIRE AND EXPLOSION HAZARD - Negligible fire hazard when exposed to heat or flame.

FIRE FIGHTING MEDIA - Dry chemical, carbon dioxide, water spray or regular foam.

FIRE FIGHTING - Move container from fire area if you can do it without risk. Do not scatter spilled material with high-pressure water streams. Dike fire-control water for later disposal. Use agents suitable for type of surrounding fire. Avoid breathing hazardous vapors, keep upwind.

HEALTH EFFECTS AND FIRST AID

NOTE: The acute health effects described below are those which could potentially occur for the finished product. They are based on the toxicology information available for the finished product and/or each hazardous ingredient, and are consistent with the product type and the likelihood of a specific route of exposure. Known chronic health effects related to exposure to a specific ingredient are indicated.

ACUTE HEALTH EFFECTS:

- INHALATION:** Unlikely to occur due to the physical properties of the product. However, if vapors are generated, irritation to mucous membranes and upper respiratory tract with sore throat and coughing may occur.
- SKIN CONTACT:** Repeated or prolonged excessive exposure may cause irritation or dermatitis.
- EYE CONTACT:** May cause significant irritation with pain, burns and corneal opacity. May cause irreversible damage.
- INGESTION:** May cause sore throat, abdominal pain and diarrhea.

CHRONIC HEALTH EFFECTS: None known.

MEDICAL CONDITIONS GENERALLY RECOGNIZED AS BEING AGGRAVATED BY EXPOSURE: None known.

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: Remove from exposure area to fresh air immediately. Keep affected person warm and at rest. Treat symptomatically and supportively. Contact physician or local poison control center. If breathing has stopped, give artificial respiration, and get medical attention immediately.

SKIN CONTACT: Rinse affected area with plenty of water until no evidence of product remains. Get medical attention if irritation persists.

EYE CONTACT: Rinse eyes immediately with plenty of water, occasionally lifting upper and lower lids, until no evidence of product remains. Get medical attention if pain or irritation persist.

INGESTION: Treat symptomatically and supportively. Maintain airway and respiration. If vomiting occurs, keep head below hips to prevent aspiration. Dilution by rinsing the mouth and giving water or milk to drink is generally recommended. If unconscious, the victim should not be given anything to drink. Contact physician or local poison control center.

REACTIVITY

REACTIVITY - Stable under normal temperatures and pressures.

INCOMPATIBILITIES: Strong oxidizers, bases, reducing agents.

DECOMPOSITION - Thermal decomposition may release acrid smoke and irritating fumes. Hazardous decomposition products may include carbon monoxide and carbon dioxide.

POLYMERIZATION - Hazardous polymerization has not been reported to occur under normal temperatures and pressures.

STORAGE AND DISPOSAL

Store away from incompatible substances. Store in a tightly closed container in order to prevent the development of rancid (oxidized) material. Observe all federal, state and local regulations when storing or disposing of this substance.

CONDITIONS TO AVOID

May burn but does not ignite readily. Avoid contact with strong oxidizers, excessive heat (> 60 °C), sparks, or open flame in order to preserve the odor characteristics. Material may potentially undergo spontaneous heat generation by oxidation in air.

SPILL AND LEAK PROCEDURES

OCCUPATIONAL SPILL - Scoop or scrape up and place in suitable clean, dry containers for reclamation or later disposal. Fatty acid can be readily converted to water soluble soap by the addition of an alkali such as sodium carbonate. This solubilizes the fatty acid in water allowing it to be cleaned up by hosing or flushing with water. Keep unnecessary people away.

OCCUPATIONAL PROTECTIVE EQUIPMENT

VENTILATION - Provide general dilution ventilation system.

RESPIRATOR -If respiratory protection is required, it must be based on the contamination levels found in the workplace, must not exceed the working limits of the respirator and be jointly approved by the National Institute for Occupational Safety and Health and the Mine Safety and Health Administration (NIOSH-MSHA).

FOR FIRE FIGHTING AND OTHER IMMEDIATELY DANGEROUS TO LIFE OR HEALTH CONDITIONS - Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode. Any supplied-air respirator that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive-pressure mode.

CLOTHING - Protective clothing is required where repeated or prolonged skin contact may occur.

GLOVES - Chemical-resistant gloves are required where repeated or prolonged skin contact may occur.

EYE PROTECTION - Safety glasses are required to prevent eye contact where dusty conditions are anticipated.

EMERGENCY WASH FACILITIES - Where there is any possibility that an employee's eyes and/or skin may be exposed to this substance, the employer should provide an eye wash fountain and quick drench shower within the immediate work area for emergency use.

REGULATORY INFORMATION

DOT FLAMMABILITY CLASSIFICATION:	Not applicable.
EPA - SARA TITLE III SECTION 313:	Toxic Chemical – None.
TSCA:	All components of this product are listed or are exempted or excluded from listing on the U.S. Toxic Substances Control Act (TSCA) chemical substance inventory.

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MSDS CREATION DATE: 04/17/89

SUPERSEDES: 04/27/98; Rev. 3

REVISION DATE: 11/10/04

REVISION: Revised Substance ID, Hazardous Ingredients and Regulatory Information Sections.