

MATERIAL SAFETY DATA SHEET

MSDS V-117 REVISION 4

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

VVF Illinois Services, LLC
2000 Aucutt Road
Montgomery, IL 60538

Medical Emergencies: 1-888-689-9082
Chemtrec: 1-800-424-9300 (24 Hours Daily)
Other Information: 1-888-468-6673

PRODUCT: Fatty Acid Blend DATE OF ISSUE: April 1, 2009

TRADE NAMES/SYNONYMS: Blend – Av 210 Fatty Acids - Av 230 Fatty Acid

Fatty Acids, C14-C18 and C16-C18 Unsaturated
Fatty Acids, C8-C18 and C18 Unsaturated

CHEMICAL FAMILY: Aliphatic carboxylic acids

I.D. NUMBERS: 900945; 900975; 88101017

SECTION 2: HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

CAUTION: This product is a white to brown, semi-solid material having a characteristic fatty odor. Direct contact with eyes may cause significant irritation. Repeated or prolonged excessive exposure with skin may cause irritation or dermatitis. Keep out of reach of children. No significant environmental effects. Not a fire hazard. Product is stable.

This product is labeled in accordance with regulations administered by the Consumer Product Safety Commission. The use pattern and exposure in the workplace are generally not consistent with those experienced by consumers. The requirements of the Occupational Safety and Health Administration applicable to this Material Safety Data Sheet differ from the requirements of the CPSC and as a result, this MSDS may contain additional health hazard information not pertinent to consumer use and not found on the product label.

REGULATORY STATUS

While this product is not considered to be hazardous under OSHA's Hazard Communication Standard (29 CFR 1900.1200), this MSDS includes valuable information that is critical for safe handling and proper use of this product. This MSDS should be retained and available for employees and other users of this product.

POTENTIAL HEALTH EFFECTS

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.

EYE CONTACT: May cause significant irritation with pain, burns and corneal opacity. May cause irreversible damage

SKIN CONTACT: Repeated or prolonged excessive exposure may cause irritation or dermatitis.

INGESTION: May cause sore throat, abdominal pain and diarrhea.

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.

CHRONIC HEALTH EFFECTS: None known.

MEDICAL CONDITIONS GENERALLY RECOGNIZED AS BEING AGGRAVATED BY EXPOSURE: Persons with pre-existing skin disorders.

POTENTIAL ENVIRONMENTAL EFFECTS

See Section 12: Ecological Information.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Based on our hazard evaluation, the following chemical substance(s) in this product have been identified as hazardous.

<u>INGREDIENT</u>	<u>CAS NUMBER</u>	<u>PERCENT (w/w)</u>
Fatty Acids, C14-C18 and C16-C18 Unsaturated	67701-06-8	60 – 100 %
Fatty Acids, C8-C18 and C18 Unsaturated	67701-05-7	10 – 40 %

SECTION 4: FIRST AID MEASURES

EYES: Immediately rinse eyes with plenty of water for at least 15 minutes, occasionally lifting upper and lower lids, until no evidence of product remains. Get medical attention if pain or irritation persist.

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

INGESTION: Treat symptomatically and supportively. Dilution by rinsing the mouth and giving water or milk to drink is generally recommended. Contact physician if symptoms persist.

INHALATION: Remove from exposure area to fresh air. Get medical attention if irritation develops.

NOTE TO PHYSICIAN: The physician's judgment should be used to control symptoms and clinical condition based on the individual reactions of the patient.

SECTION 5: FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

OSHA FLAMMABILITY CLASSIFICATION: III B

FLASH POINT: \approx 300-365°F (COC)

UPPER FLAMMABILITY LIMIT: Not applicable

LOWER FLAMMABILITY LIMIT: Not applicable

AUTO-IGNITION TEMPERATURE: Not applicable

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

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition products may include acrid smoke and irritating fumes, carbon monoxide and carbon dioxide.

EXTINGUISHING MEDIA

Dry chemical, carbon dioxide, water spray or regular foam. For larger fires, use water spray, fog or regular foam.

PROTECTION OF FIREFIGHTERS

In case of fire, wear a full-face positive-pressure self-contained breathing apparatus and protective suit. 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.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear skin, eye and respiratory protection as recommended in Section 8. Stop or reduce any leaks if it is safe to do so. Spills present a slipping hazard. Keep unnecessary personnel away. Ventilate spill area if possible. Ensure clean-up is conducted by trained personnel only. Make sure area is slip-free before re-opening to traffic.

ENVIRONMENTAL PRECAUTIONS

Small or household quantities may be disposed in sewer or other liquid waste system. For larger quantities check with your local water treatment plant.

METHODS FOR CONTAINMENT AND CLEAN UP

SMALL SPILLS: Scoop or scrape up and place into suitable clean, dry containers for reclamation or later disposal.

LARGE SPILLS: Scoop or scrape up and place into 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.

SECTION 7: HANDLING AND STORAGE

HANDLING:

Do not get in eyes, on skin, on clothing. Do not take internally. Use with adequate ventilation. Avoid generating aerosols and mists. Keep the containers closed when not in use. Have emergency equipment (for fires, spills, leaks, etc.) readily available.

STORAGE:

Store in original containers in a cool dry area. Store away from incompatible substances and avoid excessive heat (> 60 °C), sparks, or open flame in order to preserve the odor characteristics. Store in a tightly closed container in order to prevent the development of rancid (oxidized) material. Storage areas for large quantities (warehouse) should be well ventilated.

SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

WORKER EXPOSURE LIMITS

No worker exposure limits exist for this product.

ENGINEERING CONTROLS: 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/FACE 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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	White to brown	PHYSICAL STATE:	Semi-solid
ODOR/ODOR THRESHOLD:	Fatty odor		
pH (@ 25°C):	Not available	VAPOR DENSITY:	Not available
BOILING POINT:	Not available	VAPOR PRESSURE:	Not available
MELTING/FREEZING POINT:	Not available	FLASH POINT:	See Section 5.
FLAMMABLE PROPERTIES:	See Section 5.	SOLUBILITY IN WATER:	Practically insoluble
DENSITY/SPECIFIC GRAVITY:	Not available	EVAPORATION RATE:	Not available
OCTANOL/WATER PARTITION COEFFICIENT (K _{ow}):	Not available		
VISCOSITY:	Not available	CLOUD POINT:	Not available
SOLVENT SOLUBILITY: Organic solvents, such as alcohol and benzene.			

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal ambient temperature (70°F, 21°C) and pressure (1 atm).

CONDITIONS TO AVOID: Avoid contact with strong oxidizers, excessive heat (> 60 °C), sparks, or open flame in order to preserve the odor characteristics. It may burn but does not ignite readily

INCOMPATIBLE MATERIALS: Strong oxidizers, bases, reducing agents, metals.

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

POSSIBILITY OF HAZARDOUS REACTIONS: Polymerization does not occur under normal temperatures and pressures.

SECTION 11: TOXICOLOGICAL INFORMATION

PRODUCT INFORMATION SUMMARY: This product is a fatty acid. Direct contact with eyes may cause significant irritation. Repeated or prolonged excessive exposure with skin may cause irritation or dermatitis.

COMPONENT ANALYSIS: No toxicity information exist for the hazardous ingredient(s) in this product.

SENSITIZATION: This product is not considered a skin or respiratory sensitizer.

CARCINOGENICITY: None of the ingredients in this product are listed as carcinogens by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP) or the Occupational Safety and Health Administration (OSHA).

MUTAGENICITY: None of the ingredients in this product are known to cause mutagenicity.

REPRODUCTIVE/FETAL/DEVELOPMENTAL TOXICITY: None of the ingredients in this product are known as reproductive, fetal, or developmental hazards.

TARGET ORGAN TOXICITY: None of the ingredients in this product are known to have target organ toxicity.

EPIDEMIOLOGICAL INFORMATION: None of the ingredients in this product are known to have health-related information in working populations.

SECTION 12: ECOLOGICAL INFORMATION

This product is anticipated to be safe for the environment at concentrations predicted in household settings under normal use conditions. No toxicity information exist for the hazardous ingredient(s) in this product.

ENVIRONMENTAL FATE: No environmental fate data exists for the product. The product is anticipated to be rapidly biodegradable.

PERSISTENCE AND DEGRADABILITY: The persistence and degradability of this product has not been determined.

BIOACCUMULATION POTENTIAL: The bioaccumulation potential of this product has not been determined.

MOBILITY: The mobility of this product (in soil and water) has not been determined.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE NUMBER AND DESCRIPTION: Not applicable, not regulated.

DISPOSAL CONSIDERATIONS: This product is not a RCRA hazardous waste and can be disposed of in accordance with federal, state and local regulations.

SECTION 14: TRANSPORT INFORMATION

GROUND TRANSPORT

DOT Hazard Class:

Not regulated

Packing Group:

Not applicable

DOT Proper Shipping Name: Not applicable
UN/NA Number: Not applicable

Shipping Label Information: Not applicable

AIR TRANSPORT (ICAO/IATA)

ICAO/IATA Hazard Class: Not regulated
ICAO/IATA Proper Shipping Name: Not applicable

MARINE TRANSPORT (IMDG/IMO)

IMDG/IMO Hazard Class: Not regulated
IMDG/IMO Proper Shipping Name: Not applicable

SECTION 15: REGULATORY INFORMATION

UNITED STATES:

OSHA HAZARD COMMUNICATION RULE, 29 CFR 1910.1200:

The Occupational Safety and Health Administration requires Material Safety Data Sheets to provide any hazards that may be associated with the product, and make this information available in the workplace. Since the use pattern and exposure in the workplace are generally not consistent with those experienced by consumers, this MSDS may contain additional health hazard information not pertinent to consumer use.

EPA - SARA TITLE III SECTION 313: This product contains no materials reportable under this section.

EPA CERCLA/SARA TITLE III SUPERFUND AMENDMENT AND REAUTHORIZATION ACT:

This product contains no CERCLA/SARA Title III materials. This product contains no hazardous chemicals reportable under Sections 311/312. This product contains no hazardous chemicals reportable under Section 304.

TSCA: All components of this product are listed on U.S. Toxic Substances Control Act (TSCA) chemical substance inventory.

STATE REGULATIONS

CALIFORNIA PROPOSITION 65: This product does not contain substances listed under California Proposition 65.

CANADA:

CANADIAN ENVIRONMENTAL PROTECTION ACT:

INVENTORY STATUS: All components are on the Canadian Domestic Substances List (DSL).

WORKER HAZARDOUS MATERIALS INFORMATION SYSTEM:

WHMIS CLASSIFICATION: Not subject to classification.

SECTION 16: OTHER INFORMATION

DISCLAIMER: The information contained herein is provided in good faith and is believed to be correct as of the date hereof. However, VVF Illinois Services, LLC makes no representation as to the comprehensiveness or accuracy of the information. It is expected that individuals receiving the information will exercise their independent judgment in determining its appropriateness for a particular purpose. Accordingly, VVF Illinois Services, LLC will not be responsible for damages of any kind resulting from the use of or reliance upon such information. No representations, or warranties, either expressed or implied of merchantability, fitness for a particular purpose or of any other nature is made hereunder with respect to the information set forth herein or to the product to which the information refers.

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

MSDS CREATION DATE: 04/28/98

SUPERSEDES: 01/05/09; Rev 3

REVISION DATE: 04/01/09

REVISION: Updated Company Information.