

MATERIAL SAFETY DATA SHEET

SECTION I. CHEMICAL IDENTIFICATION

Name: Apple Fruit Essence

SECTION II. COMPOSITION/INFORMATION ON INGREDIENTS

A proprietary mixture of alkyl fruit esters:

Hexyl Butyrate	CAS No. 2639-63-6	MF	$C_{10}H_{20}O_2$
Butyl Butyrate	CAS No. 109-21-7	MF	$C_8H_{16}O_2$
Butyl Caproate	CAS No. 626-82-4	MF	$C_{10}H_{20}O_2$
Amyl Caproate	CAS No. 540-07-8	MF	$C_{11}H_{22}O_2$
Propyl Caproate	CAS No. 626-77-7	MF	$C_9H_{18}O_2$

SECTION III. HAZARDS IDENTIFICATION

Label Precautionary Statements

Combustible

Irritant

Keep away from heat and open flame

SECTION IV. FIRST-AID MEASURES

In case of eye contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

In case of skin contact, immediately wash skin with soap and copious amounts of water.

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Wash contaminated clothing before reuse.

SECTION V. FIRE FIGHTING MEASURES

Extinguishing Media: Carbon dioxide, dry chemical powder, appropriate foam, or water spray.

Special Firefighting Procedures: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Combustible Liquid

Unusual Fire and Explosions Hazards: Emits toxic fumes under fire conditions.

SECTION VI. ACCIDENTAL RELEASE MEASURES

Evacuate area. Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves. Cover with dry lime or soda ash. Pick up, keep in a closed container, and hold for waste disposal. Ventilate area and wash spill site after handling material pickup is complete.

SECTION VII. HANDLING AND STORAGE

Refer to Section 8.

SECTION VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical safety goggles	Compatible chemical-resistant gloves	NIOSH/MSHA-approved respirator
Safety shower and eye bath	Mechanical exhaust required	Do not breathe vapor
Avoid contact with eyes, skin, and clothing	Avoid prolonged or repeated exposure	
Wash thoroughly after handling	Keep tightly closed	
Keep away from heat and open flame	Store in a cool dry place	

SECTION IX. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: Colorless liquid

Physical Properties: Boiling Point Range: 160-260°C

Flash Point (Most Volatile Component): 121°F/49°C

Specific Gravity: 0.86

SECTION X. STABILITY AND REACTIVITY

Stability: Stable Protect from light
Incompatibilities: Strong oxidizing agents. Strong bases.
Hazardous Combustion or Decomposition Products:
 Toxic Fumes of: Carbon monoxide, carbon dioxide
Hazardous Polymerization: Will not occur

SECTION XI. TOXICOLOGICAL INFORMATION

Acute Effects

May be harmful by inhalation, ingestion, or skin absorption. May cause eye or skin irritation. Material may be irritating to mucous membranes and upper respiratory tract.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION XII. ECOLOGICAL INFORMATION

Data not yet available.

SECTION XIII. DISPOSAL CONSIDERATIONS

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Observe all Federal, State, and Local environmental regulations.

SECTION XIV. TRANSPORT INFORMATION

Contact Great Lakes IPM for transportation information.

SECTION XV. REGULATORY INFORMATION

Reviews, standards, and regulations
OEL-MAK
All components of the mixture are on the EPA TSCA Section 8(B) Chemical Inventory

SECTION XVI. OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Great Lakes IPM shall not be held liable for any damage resulting from handling or from contact with the above product.

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