1. IDENTIFICATION

Catalog Number / Product Name: 35026 / FAME #20 Mix
Company: Restek Corporation
Address: 110 Benner Circle
         Bellefonte, Pa. 16823
Phone#: 814-353-1300
Fax#: 814-353-1309
Emergency#: 800-424-9300 (CHEMTREC)
            703-527-3887 (Outside the US)
Email: www.restek.com
Revision Number: 10
Intended use: For Laboratory use only

2. HAZARD(S)IDENTIFICATION

Emergency Overview:

GHS Hazard Symbols: !

GHS Classification: Skin Corrosion/Irritation Category 2

GHS Signal Word: Warning

GHS Hazard: Causes skin irritation.

GHS Precautions:

Safety Precautions: Wash hands and skin thoroughly after handling.

Precautions: Wear protective gloves/protective clothing/eye protection/face protection.

First Aid Measures:

IF ON SKIN: Wash with plenty of soap and water.
Specific treatment see section 4.
If skin irritation occurs: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.

Single Exposure Target Organs: No data available.

Repeated Exposure Target Organs: No data available.

3. COMPOSITION / INFORMATION ON INGREDIENT

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS #</th>
<th>EINEC #</th>
<th>% Composition</th>
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<tr>
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<td>111-82-0</td>
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</table>
4. FIRST-AID MEASURES

Inhalation: Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen.

Eyes: Use an eye wash to remove a chemical from your eye regardless of the level of hazard. Flush the affected eye for at least twenty minutes. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Seek medical advice after flushing.

Skin Contact: Wash with soap and water. Get medical attention if irritation develops or persists.

Ingestion: Minimal risk of harm if swallowed. Do not induce vomiting. Seek medical attention immediately. Provide medical care provider with this SDS.

5. FIRE- FIGHTING MEASURES

Extinguishing Media: Use alcohol resistant foam, carbon dioxide, dry chemical, or water spray when fighting fires. Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the fire. Do not direct a water stream directly into the hot burning liquid.

Fire and/or Explosion Hazards: Material may be ignited if preheated to temperatures above the flash point in the presence of a source of ignition.

Fire Fighting Methods and Protection: Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Use methods for the surrounding fire.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment: No health affects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this SDS.

Methods for Clean-up: Use an inert absorbent such as sand or vermiculite. Place in properly labeled closed container.

7. HANDLING AND STORAGE

Handling Technical Measures and Precautions: No data available.


8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>United States:</th>
<th>CAS No.</th>
<th>IDLH</th>
<th>ACGIH STEL</th>
<th>ACGIH TLV-TWA</th>
<th>OSHA Exposure Limit</th>
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<td>No TLV</td>
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</table>

Personal Protection:

Engineering Measures: Local exhaust ventilation is recommended when generating excessive levels of vapors from handling or thermal processing.

Respiratory Protection: Respiratory protection must be used when handling this product. Use respirators only if ventilation cannot be used to eliminate symptoms or reduce the exposure to below acceptable levels. A supplied air type respirator will be required.

Eye Protection: Wear safety glasses when handling this product.

Skin Protection: Not normally considered a skin hazard. Where use can result in skin contact, practice good personal hygiene and wear a barrier cream and/or impervious surgical style gloves. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.
9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance, color: No data available.
Odor: None
Physical State: No data available.
pH: No data available.
Vapor Pressure: No data available.
Boiling Point: No data available.
Flash Point: 162
Flammability: Combustible
Upper Flammable/Explosive Limit, % in air: No data available.
Lower Flammable/Explosive Limit, % in air: No data available.
Autoignition Temperature: No data available. deg C
Decomposition Temperature: No data available.
Evaporation Rate: No data available.
Odor Threshold: No data available.
Solubility: Not determined
Partition Coefficient: n-octanol in water: No data available.
VOC % by weight: 0
Molecular Weight: No data available.

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.
Conditions to Avoid: No data available.
Materials to Avoid / Chemical Incompatibility: Strong oxidizing agents
Hazardous Decomposition Products: No data available.

11. TOXICOLOGICAL INFORMATION

Routes of Entry: Inhalation, Skin Contact, Eye Contact, Ingestion
Target Organ Potentially Affected By Exposure: No data available.
Chemical Interactions That Change Toxicity: None Known

Immediate (Acute) Health Effects by Route of Exposure:

Inhalation Irritation: May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.
Skin Contact: May cause skin irritation.
Skin Absorption: May be harmful if absorbed through the skin.
Eye Contact: May cause eye irritation.
Ingestion Irritation: May be harmful if swallowed.

Long-Term (Chronic) Health Effects:
Carcinogenicity: No data.
Reproductive and Developmental Toxicity: No data available to indicate product or any components present at greater than 0.1% may cause birth defects.

Component Toxicological Data:

NIOSH:
Chemical Name | CAS No. | LD50/LC50
--- | --- | ---
Dodecanoic acid, methyl ester | 111-82-0 | Oral LD50 Rat >2000 mg/kg (no deaths occurred)
Methyl oleate | 112-62-9 | Dermal LD50 Rabbit >5000 mg/kg
Methyl ester octanoic acid | 111-11-5 | Oral LD50 Rat >2000 mg/kg (no deaths occurred)
Decanoic acid, methyl ester | 110-42-9 | Oral LD50 Rat >2000 mg/kg

Component Carcinogenic Data:
OSHA:
Chemical Name | CAS No.
--- | ---
No data available.

ACGIH:
Chemical Name | CAS No.
--- | ---
No data available.

NIOSH:
Chemical Name | CAS No.
--- | ---
No data available.
NTP:
Chemical Name | CAS No.
---|---
No data available.

IARC:
Chemical Name | CAS No. | Group No.
---|---|---
No data. | | Group 1
No data. | | Group 2A
No data. | | Group 2B

12. ECOLOGICAL INFORMATION

| Overview | No ecological information available |
| Mobility | No data |
| Persistence | No data |
| Bioaccumulation | No data |
| Degradability | No data |
| Ecological Toxicity Data | No data available. |

13. DISPOSAL CONSIDERATIONS

- **Waste Description of Spent Product:** Spent or discarded material may be a hazardous waste.
- **Disposal Methods:** Dispose of by incineration following Federal, State, Local, or Provincial regulations.
- **Waste Disposal of Packaging:** Comply with all Local, State, Federal, and Provincial Environmental Regulations.

14. TRANSPORTATION INFORMATION

**United States:**
- DOT Proper Shipping Name: DOT Not Regulated.
- UN Number: Not regulated.
- Hazard Class: Not applicable
- Packing Group: Not applicable

**International:**
- IATA Proper Shipping Name: IATA Not Regulated.
- UN Number: Not regulated.
- Hazard Class: Not applicable
- Packing Group: Not applicable

**Marine Pollutant:** No

<table>
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<tr>
<th>Chemical Name</th>
<th>CAS#</th>
<th>Marine Pollutant</th>
<th>Severe Marine Pollutant</th>
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<tbody>
<tr>
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The following chemicals are listed on CA Prop 65:

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<tr>
<th>Chemical Name</th>
<th>CAS #</th>
<th>Regulation</th>
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<tbody>
<tr>
<td>methyl laurate</td>
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15. REGULATORY INFORMATION

**United States:**

<table>
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<th>CERCLA</th>
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State Right To Know Listing:

<table>
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<th>Massachusetts</th>
<th>Pennsylvania</th>
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</table>
methyl myristate 124-10-7 - - - - -
methyl oleate 112-62-9 - - - - -
methyl palmitate 112-39-0 - - - - -
methyl octanoate 111-11-5 - - - - -
methyl decanoate 110-42-9 - - - - -
methyl linoleate 112-63-0 - - - - -
methyl stearate 112-61-8 - - - - -

16. OTHER INFORMATION

Prior Version Date: 08/01/16
Other Information: Any changes to the SDS compared to previous versions are marked by a vertical line in front of the concerned paragraph.
References: No data available.
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