

**Trade Name:** Banana OS Natural Liquid Flavor Concentrate

## 1 Identification

### 1.1 Product identifier

**Trade name:** Banana OS Natural Liquid Flavor Concentrate

Product Code: F0152

Application of the substance / the mixture: Pharma Excipient

### 1.2 Details of the supplier of the safety data sheet

**Manufacturer/Supplier:**

SpecializedRx Products, LLC

3787 95<sup>th</sup> Ave NE Suite 100

Circle Pines, MN 55014 USA

www.specializedrx.com

sales@specializedrx.com

**Information department:**

Tel.: 1-888-512-1209

Fax: 1-612-424-8481

### 1.3 Emergency telephone number:

Emergency Telephone:

US: 1-888-512-1209

International: 1-888-512-1209

## 2 Hazard(s) identification

**Flammable Liquids, Category 3**

**Acute Toxicity: Oral, Category 4**

**Acute Toxicity: Skin, Category 4**



**GHS Signal Word: Warning**

**GHS Hazard Phrases:**

H226: Flammable liquid and vapor.

H302: Harmful if swallowed.

H316: Causes mild skin irritation.

H332: Harmful if inhaled.

**GHS Precaution Phrases:**

P210: Keep away from {heat/sparks/open flames/hot surfaces}. – No smoking.

P233: Keep container tightly closed.

P241: Use explosion-proof electrical/ventilating/lighting/{.../} equipment.

P242: Use only non-sparking tools.

P261: Avoid breathing {dust/fume/gas/mist/vapors/spray}.

P264: Wash {hands} thoroughly after handling.

P270: Do not eat, drink, or smoke when using this product.

# Safety Data Sheet

acc. To OSHA HCS

Reviewed on 02 Dec 2022

Printing date 02 Dec 2022

**Trade Name:** Banana OS Natural Liquid Flavor Concentrate

P271: Use only outdoors or in a well-ventilated area.

P280: Wear {protective gloves/protective clothing/eye protection/face protection}.

**GHS Response Phrases:**

P301+312: If SWALLOWED: P312: Call a POISON CENTER or doctor/physician if you feel unwell.

P303+361+353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P330: Rinse mouth.

P332+313: If skin irritation occurs, get medical advice/attention.

**GHS Storage and Disposal Phrases:**

P403+235: Store in cool/well-ventilated place.

P501: Dispose of contents/container to {...}.

**Other Hazards:** Causes mild skin irritation.

**Eye Contact:** MAY CAUSE EYE IRRITATION

**Skin Contact:** MAY CAUSE SKIN IRRITATION

**Ingestion:** MAY BE HARMFUL

**Inhalation:** MAY BE HARMFUL IF INHALED

## 3 Composition/information on ingredients

### 3.1 Chemical Characterization: Mixtures

**Description:** Mixture of the substances listed below

**Dangerous components:** Void

### 3.2 Chemical Information:

**Chemical Name:** Not applicable

**Botanical Name:** Not applicable

**Synonym:** Not applicable

**Chemical Formula:** Not applicable

**CAS Number:** Not applicable

**Alternate CAS Number:** Not applicable

**Molecular Weight:** Not applicable

### 3.3 Composition:

Chemical Name	CAS Number	% By Weight
Glycerides, mixed decanoyl and octanoyl	73398-61-5	17.0 – 23.0%
Iso-Amyl acetate	123-92-2	76.0 – 82.0%

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as health hazards and hence require reporting in this section.

## 4 First-aid measures

### 4.1 Description of first aid measures

**General information:** No special measures required.

**After inhalation:** Supply fresh air; consult doctor in case of complaints.

# Safety Data Sheet

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**After skin contact:** Flush with plenty of water for at least 15 minutes  
**After eye contact:** Immediately rinse opened eye for 15 minutes under running water.  
**After swallowing:** Do not induce vomiting. Rinse out mouth with plenty of water.

#### 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

#### 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

## 5 Fire-fighting measures

**Flash Pt:** 108.00 F Method Used: Closed Cup

#### Fire Fighting Instructions:

AS IN ANY FIRE, WEAR A SELF-CONTAINED BREATHING APPARATUS IN PRESSURE-DEMAND, MSHA/NIOSH (APPROVED OR EQUIVALENT), AND FULL PROTECTIVE GEAR. FLAMMABLE LIQUID AND VAPOR.

#### Flammable Properties and Hazards:

FLAMMABLE IN THE PRESENCE OF A SOURCE OF IGNITION WHEN THE TEMPERATURE IS ABOVE THE FLASH POINT.

#### Autoignition Pt:

**Explosive Limits:** LEL: UEL:

#### Suitable Extinguishing Media:

USE WATER SPRAY, DRY CHEMICAL, CARBON DIOXIDE, OR ALCOHOL-RESISTANT FOAM.

## 6 Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures:** Not required.

#### 6.2 Environmental precautions:

ENSURE ADEQUATE VENTILATION.

#### 6.3 Methods and material for containment and cleaning up:

CONTAIN SPILLAGE, AND THEN COLLECT WITH NON-COMBUSTIBLE ABSORBENT MATERIAL, (E.G. SAND, EARTH, DIATOMACEOUS EARTH, VERMICULITE) AND PLACE IN CONTAINER FOR DISPOSAL ACCORDING TO LOCAL / NATIONAL REGULATIONS (SEE SECTION 13).

#### 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

#### Protective Action Criteria for Chemicals

PAC-1: None of the ingredients is listed.

PAC-2: None of the ingredients is listed.

PAC-3: None of the ingredients is listed.

# Safety Data Sheet

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## 7 Handling and storage

### 7.1 Precautions for safe handling:

AVOID CONTACT WITH SKIN AND EYES. KEEP AWAY FROM SOURCES OF IGNITION - NO SMOKING.

WASH THOROUGHLY AFTER HANDLING. REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage:

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Keep container tightly-closed and in a dry and well-ventilated space.

### 7.3 Specific end use(s):

No further relevant information available.

## 8 Exposure controls/personal protection

**Additional information about design of technical systems:** No further data; see item 7.

Partial Chemical Name	CAS Number	OSHA TWA	ACGIH TWA	Other Limits
Glycerides, mixed decanoyl and octanoyl	73398-61-5			
Iso-Amyl acetate	123-92-2	TWA: 525 mg/m <sup>3</sup> (100ppm)	TWA: 50 ppm STEL: 100ppm	

### Respiratory Equipment (Specify Type):

A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA'S 29 CFR 1910.134 AND ANSI Z88.2 REQUIREMENTS OR EUROPEAN STANDARD EN 149 MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT RESPIRATOR USE.

### Eye Protection:

USE EQUIPMENT FOR EYE PROTECTION TESTED AND APPROVED UNDER APPROPRIATE GOVERNMENT STANDARDS SUCH AS NIOSH (US) OR EN 166(EU).

**Protective Gloves:** WEAR CHEMICAL-RESISTANT GLOVES TO PREVENT SKIN EXPOSURE.

**Other Protective Clothing:** WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT SKIN EXPOSURE.

### Engineering Controls (Ventilation etc.):

FACILITIES STORING OR UTILIZING THIS MATERIAL SHOULD BE EQUIPPED WITH AN EYEWASH FACILITY AND A SAFETY SHOWER.

### Work/Hygienic/Maintenance Practices:

HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICE. ENVIRONMENTAL PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO DO SO. DO NOT LET PRODUCT ENTER DRAINS.

**Trade Name:** Banana OS Natural Liquid Flavor Concentrate

**Eye protection:** Goggles recommended during handling.

## 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### General Information

**Appearance:** Transparent colorless liquid

**Form:** Liquid

**Color:** Colorless

**Odor:** Banana aroma

**pH-value:** Not determined.

**Melting point/Melting range:** Not determined

**Boiling point/Boiling range:** Not determined

**Flash point:** 108.00 F Method used: Closed Cup

**Flammability (solid, gaseous):** Not applicable.

**Ignition temperature:** Not determined

**Decomposition temperature:** Not determined.

**Auto igniting:** Product is not self-igniting.

**Danger of explosion:** Product does not present an explosion hazard.

#### Explosion limits:

**Lower:** Not determined.

**Upper:** Not determined.

**Vapor pressure:** Not determined.

**Specific gravity:** 0.8840

**Density:** Not determined.

**Relative density:** Not determined.

**Vapor density:** Not determined.

**Evaporation rate:** Not determined.

**Solubility in / Miscibility with Water:** Insoluble

**Partition coefficient (n-octanol/water):** Not determined.

**Viscosity:** Not determined.

**Dynamic:** Not determined.

**Kinematic:** Not determined.

**9.2 Other information:** No further relevant information available.

## 10 Stability and reactivity

**10.1 Reactivity:** No further relevant information available.

**10.2 Chemical stability:** Material is stable.

**10.3 Possibility of hazardous reactions:** No dangerous reactions known.

**10.4 Conditions to avoid:** No further relevant information available.

**10.5 Incompatible materials:** No further relevant information available.

**10.6 Hazardous decomposition products:** No dangerous decomposition products known.

**Trade Name:** Banana OS Natural Liquid Flavor Concentrate

## 11 Toxicological information

### 11.1 Information on toxicological effects

**Acute toxicity:** Based on available data, the classification criteria are not met.  
THIS MIXTURE HAS NOT BEEN SUBJECTED TO TOXICOLOGICAL TESTING BUT HAS BEEN BLENDED FROM MATERIALS WITH ESTABLISHED TOXICOLOGICAL BIBLIOGRAPHIES. IN VIEW OF THE DIFFICULTY OF USING CURRENT STANDARD TOXICOLOGICAL EVALUATION TECHNIQUES TO PREDICT POTENTIAL HAZARDS TO SUSCEPTIBLE INDIVIDUALS OR ARISING FROM UNFORESEEABLE POTENTIATION, THIS PREPARATION SHOULD BE CONSIDERED AND HANDLED AS IF DISPLAYED HEALTH HAZARDS AND CONSEQUENTLY TREATED WITH ALL POSSIBLE PRECAUTION.

**Primary irritant effect:**

**on the skin:** Based on available data, the classification criteria are not met.

**on the eye:** Based on available data, the classification criteria are not met.

**Sensitization:** Based on available data, the classification criteria are not met.

**Additional toxicological information:**

**Carcinogenic categories**

**IARC (International Agency for Research on Cancer):** None of the ingredients is listed.

**NTP (National Toxicology Program):** None of the ingredients is listed.

**OSHA-Ca (Occupational Safety & Health Administration):** None of the ingredients is listed.

## 12 Ecological information

### 12.1 Toxicity

**Aquatic toxicity:** No further relevant information available.

**12.2 Persistence and degradability:** No further relevant information available.

**12.3 Bioaccumulative potential:** No further relevant information available.

**12.4 Mobility in soil:** No further relevant information available.

**Additional ecological information:**

**General notes:**

THIS MIXTURE AS A WHOLE HAS NOT BEEN SUBJECTED TO ECOTOXICOLOGICAL TESTING. IN VIEW OF THE DIFFICULTY OF USING CURRENT STANDARD ECOTOXICOLOGICAL EVALUATION TECHNIQUES TO PREDICT THE IMPACT OF PARTICULAR MODES OF RELEASE ON VULNERABLE OR LOCALIZED PARTS OF THE ECOSYSTEM, THIS PREPARATION SHOULD BE CONSIDERED AND HANDLED AS IF IT DISPLAYED POTENTIAL ENVIRONMENTAL HAZARDS, AND TREATED IN CONSEQUENCE WITH ALL POSSIBLE PRECAUTION.

### 12.5 Results of PBT and vPvB assessment

**PBT:** Not applicable.

**vPvB:** Not applicable.

**12.6 Other adverse effects:** No further relevant information available.

# Safety Data Sheet

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Trade Name: Banana OS Natural Liquid Flavor Concentrate

## 13 Disposal considerations

### 13.1 Waste treatment methods

THIS MATERIAL, AS SUPPLIED, IS NOT A HAZARDOUS WASTE ACCORDING TO FEDERAL REGULATIONS (40 CFR 261). THIS MATERIAL COULD BECOME A HAZARDOUS WASTE IF IT IS MIXED WITH OR OTHERWISE COMES IN CONTACT WITH A HAZARDOUS WASTE, IF CHEMICAL ADDITIONS ARE MADE TO THIS MATERIAL, OR IF THE MATERIAL IS PROCESSED OR OTHERWISE ALTERED. CONSULT 40 CFR 261 TO DETERMINE WHETHER THE ALTERED MATERIAL IS A HAZARDOUS WASTE. CONSULT THE APPROPRIATE STATE, REGIONAL, OR LOCAL REGULATIONS FOR ADDITIONAL REQUIREMENTS.

## 14 Transport information

### LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: EXTRACTS, FLAVORING, LIQUIDS  
DOT Hazard Class: 3 FLAMMABLE LIQUID  
UN/NA Number: 1197 Packing Group: II



### LAND TRANSPORT (Canadian TDG):

TDG Shipping Name: EXTRACTS, FLAVORING, LIQUIDS

### LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: EXTRACTS, FLAVORING, LIQUIDS

### MARINE TRANSPORT (IMDG/IMO):

IMDG/IMO Shipping Name: EXTRACTS, FLAVORING, LIQUIDS  
UN Number: 1197 Packing Group: II  
Hazard Class: 3 - FLAMMABLE LIQUID IMDG Classification: 3  
IMDG MFAG Number:

IMDG EMS Page:

### AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: EXTRACTS, FLAVORING, LIQUIDS  
UN Number: 1197 Packing Group: II  
Hazard Class: 3 - FLAMMABLE LIQUID IATA Classification: 3

## 15 Regulatory information

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS#	Hazardous Components (chemical Name)	S. 302 (EHS)	S.304 RQ	S.313 (TRI)
73398-61-5	Glycerides, mixed decanoyl and octanoyl	No	No	No



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123-92-2	Iso-Amyl acetate	No	Yes 5000 LB	No	
<b>This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated:</b>					
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Explosive	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Acute toxicity (any route of exposure)
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Flammable (gases, aerosols, liquid or solid)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Skin Corrosion or Irritation
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Oxidizer (liquid, solid, gas)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Serious eye damage or eye irritation
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Self-reactive	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Respiratory or skin sensitization
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Pyrophoric (liquid or solid)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Germ cell mutagenicity
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Pyrophoric (gas)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Carcinogenicity
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Self-heating	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Reproductive toxicity
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Organic peroxide	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Specific target organ toxicity (single or repeated exposure)
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Corrosive to metal	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Aspiration hazard
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Gas under pressure (compressed gas)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Simple asphyxiant
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	In contact with water emits flammable gas	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	(Health) Hazard not otherwise classified (HNOC)
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Combustible gas	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	(Physical Hazard not otherwise classified (HNOC)
<b>CAS#</b>	<b>Hazardous Components (chemical Name)</b>	<b>Other US EPA or State Lists</b>			
123-92-2	Iso-Amyl Acetate	CA PROP.65: No			
73398-61-5	Glycerides, mixed decanoyl octanoyl	CA PROP.65: No			
<b>CAS#</b>	<b>Hazardous Components (chemical Name)</b>	<b>International Regulatory Lists</b>			
123-92-2	Iso-Amyl Acetate	Germany WHCS: Yes – 1653: WGK 1; REACH: Yes – 01-2119548408-32: Full, (P)			
73398-61-5	Glycerides, mixed decanoyl octanoyl	Germany WHCS: No; REACH: Yes – 01-2119492306-35; Full, (P)			

## 16 Other information

This SDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information contained here has been compiled from sources considered to be dependable and is accurate to the best of the Company's knowledge. However, the information is provided without any representation or warranty, expressed or implied regarding its accuracy or correctness. The Company cannot assume responsibility for adverse events which may occur in the use and/or misuse of this product and expressly disclaims liability for loss, damage and/or expense arising out of or in any way connected with the handling, storage, use and/or disposal of this product.

### Department issuing SDS:

SpecializedRx Products, LLC

Quality Assurance

**Contact:** sales@specializedrx.com

**Date of preparation / last revision:** 02 Dec 2022



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## **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit