

Safety Data Sheet

acc. To OSHA HCS

Reviewed on 08 Dec 2023

Printing date 08 Dec 2023

Trade Name: Lemon Drop WS Natural Liquid Flavor Concentrate

1 Identification

1.1 Product identifier

Trade name: Lemon Drop WS Natural Flavor Concentrate
Product Code: F0183
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 95th 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 2
Skin Corrosion/Irritation, Category 2
Skin Sensitization, Category 1
Aspiration Toxicity, Category 1
Serious Eye Damage/Eye Irritation, Category 2
Acute Toxicity: Inhalation, Category 4



GHS Signal Word: Danger

GHS Hazard Phrases:

H225: Highly flammable liquid and vapor.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.
H332: Harmful if inhaled.
H401: Toxic to aquatic life.
H411: Toxic to aquatic life with long lasting effects.

GHS Precaution Phrases:

P210: Keep away from {heat/sparks/open flames/hot surfaces}. - No smoking.
P233: Keep container tightly closed.

Safety Data Sheet

acc. To OSHA HCS

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Trade Name: Lemon Drop WS Natural Liquid Flavor Concentrate

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

P242: Use only non-sparking tools.

P243: Take precautionary measures against static discharge.

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

P264: Wash {hands} thoroughly after handling.

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

P272: Contaminated work clothing should not be allowed out of the workplace.

P273: Avoid release to the environment.

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

GHS Response Phrases

P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P302+352: IF ON SKIN: Wash with plenty of soap and water.

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.

P305+351+338: IF INE EYS: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do . Continue rinsing.

P312: Call a POISON CENTER or doctor/physician if you feel unwell.

P331: DO NOT induce vomiting.

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

P333+313: If skin irritation or rash occurs, seek medical advice/attention.

P337+313: If eye irritation persists, get medical advice/attention.

P362: Take off contaminated clothing and wash before re-use.

P363: Wash contaminated clothing before reuse.

P391: Collect spillage.

GHS Storage and Disposal Phrases:

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

P405: Store locked up.

Other Hazards: Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

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

CAS Number	Chemical Name	% By Weight
115-95-7	Linalyl acetate	< 0.4 %
5392-40-5	Citral	1.0 -3.0 %
5989-54-8	(S)-1-Methyl-4-(1-methylethenyl)-cyclohexene	2.0 -8.0 %
64-17-5	Ethyl alcohol	77.0 -83.0 %
68916-89-2	Oils, lemon, psoralen-free	8.0 -14.0 %

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.

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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.

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.

Note to Physician: Treat symptomatically and supportively.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information is available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information is available.

5 Fire-fighting measures

Flash Pt: 61.00 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: Ensure adequate ventilation.

6.2 Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

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).

Safety Data Sheet

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Trade Name: Lemon Drop WS Natural Liquid Flavor Concentrate

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.

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: Store in cool, dry conditions in well-sealed receptacles and well-ventilated place

7.3 Specific end use(s):

No further relevant information available.

8 Exposure controls/personal protection

CAS Number	Chemical Name	OSHA TWA	ACGIH TWA	Other
115-95-7	Linalyl acetate			
5392-40-5	Citral			
5989-54-8	(S)-1-Methyl-4-(1-methylethenyl)-cyclo hexene			
64-17-5	Ethyl Alcohol	TWA: 1900 mg/m ³ (1000ppm)	TWA: 1000ppm STEL: 1000ppm	
68916-89-2	Oils, lemon, psoralen-free			

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.

Trade Name: Lemon Drop WS Natural Liquid Flavor Concentrate

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.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance: Transparent yellow color liquid

Form: Liquid

Odor: Lemon aroma

pH-value: Not determined.

Melting point/Melting range:

Boiling point/Boiling range:

Flash point: 61.00 °F Method Used: Closed Cup

Flammability (solid, gaseous): Not applicable.

Ignition temperature:

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: 0.8204

Density: Not determined.

Relative density: Not determined.

Vapor density: Not determined.

Evaporation rate: Not determined.

Solubility in / Miscibility with Water: Soluble

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: Stable [x] Unstable []

Trade Name: Lemon Drop WS Natural Liquid Flavor Concentrate

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

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.

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.

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.

Safety Data Sheet

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Trade Name: Lemon Drop WS Natural Liquid Flavor Concentrate

vPvB: Not applicable.

12.6 Other adverse effects: No further relevant information available.

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
UN Number: 1197 **Packing Group:** II
Hazard Class: 3 - FLAMMABLE LIQUID **TDG Classification:** 3

LAND TRANSPORT (European ADR/RID):

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

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:

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

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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)
115-95-7	Linalyl acetate	No	No	No
5392-40-5	Citral	No	No	No
5989-54-8	(S)-1-Methyl-4-(1-methylethenyl)-cyclohexene	No	No	No
64-17-5	Ethyl alcohol	No	No	No
68916-89-2	Oils, lemon, psoralen-free	No	No	No

This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated:

- Yes No Explosive
- Yes No Flammable (gases, aerosols, liquid, or solid)
- Yes No Oxidizer (liquid, solid or gas)
- Yes No Self-reactive
- Yes No Pyrophoric (liquid or solid)
- Yes No Pyrophoric gas
- Yes No Self-heating
- Yes No Organic peroxide
- Yes No Corrosive to metal
- Yes No Gas under pressure (compressed gas)
- Yes No In contact with water emits flammable gas
- Yes No Combustible Dust
- Yes No (Physical) Hazard Not Otherwise Classified (HNOC)
- Yes No Acute toxicity (any route of exposure)
- Yes No Skin Corrosion or Irritation
- Yes No Serious eye damage or eye irritation
- Yes No Respiratory or Skin Sensitization
- Yes No Germ cell mutagenicity
- Yes No Carcinogenicity
- Yes No Reproductive toxicity
- Yes No Specific target organ toxicity (single or repeated exposure)
- Yes No Aspiration Hazard
- Yes No Simple Asphyxiant
- Yes No (Health) Hazard Not Otherwise Classified (HNOC)

CAS#	Hazardous Components (chemical Name)	Other US EPA or State Lists
115-95-7	Linalyl acetate	CA PROP.65: No
5392-40-5	Citral	CA PROP.65: No
5989-54-8	(S)-1-Methyl-4-(1-methylethenyl)-cyclohexene	CA PROP.65: No
64-17-5	Ethyl alcohol	CA PROP.65: No
68916-89-2	Oils, lemon, psoralen-free	CA PROP.65: No

CAS#	Hazardous Components (chemical Name)	International Regulatory Lists
115-95-7	Linalyl acetate	Germany WHCS: Yes - 1381: WGK 1; REACH: Yes - 01-2119454789-19: Full, (P)
5392-40-5	Citral	Germany WHCS: Yes - 1173: WGK 1; REACH: Yes - 01-2119462829-23: Full, (P)
5989-54-8	(S)-1-Methyl-4-(1-methylethenyl)-cyclohexene	Germany WHCS: Yes - 87: WGK 2; REACH: Yes - 01-2119958629-18: Full, (P)
64-17-5	Ethyl alcohol	Germany WHCS: Yes - 96: WGK 1; REACH: Yes - 01-2119457610-43: Full, (P)

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68916-89-2

Oils, lemon, psoralen-free

Germany WHCS: No; REACH: Yes - (P)

Regulatory Information: This product contains the below-listed chemical(s) known to the state of California to cause cancer or reproductive toxicity:

Chemical name: Myrcene

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: 08 Dec 2023

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