



140 Centennial Ave
Piscataway, NJ 08854 USA
(800) 542-7662 FAX 732-393-7379
<http://www.agilexfragrances.com>

Created By: Regulatory Affairs Group
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OSHA Material Safety Data Sheet

Product: **Fresh Linen**
Product#: **5014641**
SKU#: **US-99**

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1. Chemical Product and Company Identification

Product Name: Fresh Linen
Product Number: 5014641
Product Use: Fragrance for Consumer product
Manufacturer: Agilex Flavors & Fragrances
140 Centennial Ave
Piscataway, NJ 08854 USA
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<http://www.agilexfragrances.com>

Emergency Telephone Number(s):
(800) 255-3924 Domestic USA, Canada, Puerto Rico, and US Virgin Islands
(813) 248-0585 International

2. Hazards Identification

This mixture has not been tested as a whole. The effects, listed below, are based on evaluation of individual components in accordance with the provisions of 1910.1200 of title 29 of the U.S. Code of Federal Regulations.

Emergency Overview of OSHA Hazards

Flammability	Class IIIB Combustible Liquid
Acute Dermal/Eye	12 Causes moderate skin irritation.
	15 May cause eye irritation.
	19 May cause photo-induced skin irritation.
Acute Inhalation	25 Inhalation at high levels may cause: tremors, labored breathing, hypothermia, lethargy, ataxia.
	23 May cause respiratory tract irritation.
Acute Oral	4 Harmful if swallowed, can enter lungs and cause damage
	3 May be harmful if swallowed or if aspirated into the lungs
Genotoxicity	36 Suspected of causing genetic defects
Reproductive/Developmental	39 Causes reproductive/developmental toxicity in animals.
Sensitization/Allergic Response	31 May cause allergic skin reaction.
Target Organ Effects	28 Prolonged or repeated Dermal Exposure may cause damage to: kidneys, liver, bone marrow, skin, testes
	26 Prolonged or repeated ingestion may cause damage to: kidneys, adrenal glands, liver, spleen, bone marrow, stomach, brain, thyroid, tongue, mucous membranes, musculo-skeletal system, male reproductive system.

Carcinogenicity: This mixture contains ingredients identified as carcinogens, at 0.1% or greater, by the following :
None ACGIH IARC NTP OSHA

3. Composition/Information on Ingredients



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3. Composition/Information on Ingredients

Chemical Identification: Perfumery Compound (Mixture)
INCI Name: Fragrance

Fragrance Compound: a multi component mixture of fragrance ingredients. The specific chemical identities of the ingredients not listed herein are considered by Agilex Flavors & Fragrances™ Inc. to be Trade Secrets and are withheld in accordance with the provisions of 1910.1200 of title 29 of the U.S. Code of Federal Regulations.

This product is a complex mixture of fragrance ingredients, which contains among others the following substance(s), presenting a health or environmental hazard within the meaning of OSHA Hazard Communication Standard 29CFR1910.1200 (HCS), or having an occupational Exposure Limit:

CAS#	Ingredient(s)	Risk Codes
101-86-0	Hexyl cinnamal	11, 15
103-45-7	Phenethyl acetate	15, 26
106-22-9	Citronellol	11, 15
106-24-1	Geraniol	11, 15, 31
106-25-2	Nerol	15
118-58-1	Benzyl Salicylate	31
120-51-4	Benzyl Benzoate	3, 28
1222-05-5	Hexamethylindanopyran	11, 15
127-51-5	a-Isomethyl ionone	11, 15, 19, 26, 28, 31
140-11-4	Benzyl acetate	15, 25, 26, 31, 39
18479-58-8	Dihydromyrcenol	11, 15
60-12-8	Phenylethyl alcohol	3, 11, 15
67634-15-5	Ethyl 2,2-dimethylhydrocinnamal	11, 15
68647-72-3	Orange oil terpenes	3, 12, 31
68912-13-0	3a,4,5,6,7,7a-Hexahydro-4,7-methano-1H-indenyl propionate (Mixture of Isomers)	11, 15
78-70-6	Linalool	12, 26
80-54-6	Butylphenyl Methylpropional	3, 11, 15, 26, 28, 31, 39
8000-34-8	Eugenia caryophyllus (Clove) leaf oil	4, 12, 31, 36
98-55-5	alpha-Terpineol	11, 15, 23

Total Hydrocarbon Content (% w/w) = 2.08

4. First Aid Measures

Inhalation: Remove from exposure site to fresh air and keep at rest. Obtain medical advice.
Eye Exposure: Flush immediately with water for at least 15 minutes. Contact physician if symptoms persist.
Skin Exposure: Remove contaminated clothes. Wash thoroughly with water (and soap). Contact physician if symptoms persist.
Ingestion: Rinse mouth with water and obtain medical advice.
Others: Take risk and safety phrases (section 15) into account.

5. Fire-Fighting measures

Flash Point >200 F (93.33 C)
Flammability Class IIIB Combustible Liquid



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5. Fire-Fighting measures

Extinguishing Media: Carbon dioxide, dry chemical, foam.
 Do not use a direct water jet on burning material.

Special Fire Fighting Procedures Wear NIOSH approved self-contained breathing apparatus and full protective clothing when fighting fires involving chemicals. Use water spray to cool containers exposed to fire.

Unusual Fire and Explosion Hazards None Known to Agilex Flavors & Fragrances™ Inc.

6. Accidental Release Measures

Personal precautions: Avoid inhalation and contact with skin and eyes. A self-contained breathing apparatus is recommended in case of a major spill.

Spillage: Clean up spillage promptly. Remove ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapors. Gross spillages should be contained by use of sand or inert powder and disposed of according to the local regulations.

Environmental Precautions: Keep away from drains, soil, and surface and groundwater.

7. Handling and Storage

Handling: Apply according to good manufacturing and industrial hygiene practices with proper ventilation. Do not drink, eat or smoke while handling. Respect good personal hygiene.

Storage: Store in a cool, dry and ventilated area away from heat sources and protected from light in tightly closed original container. Avoid plastic and uncoated metal container. Keep air contact to a minimum.

Fire protection: Keep away from ignition sources and naked flame.

8. Exposure Controls/Personal Protection

CAS#	Principal/RIFM (Common) Name limit of "na" = None Assigned	ACGIH TLV-STEL (ppm)	ACGIH TLV-TWA (ppm)	OSHA Ceiling Limits	OSHA STEL (ppm)	OSHA TWA (ppm)	OSHA TWA (mg/m3)
140-11-4	Benzyl acetate	na	10.00	na	na	na	na

ENGINEERING MEASURES

Closed Systems: Wherever possible, use closed systems to transfer fragrances.

Isolation: If appropriate, isolate mixing rooms and other areas where fragrances are openly handled and maintain these areas under negative air pressure relative to the rest of the plant.

Ventilation: Use local exhaust ventilation meeting ACGIH design criteria around tanks and other sources of potential exposures, including places where fragrances are openly weighed or measured, as well as general dilution ventilation of the work area to eliminate or reduce possible worker exposures.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: Avoid excessive inhalation of concentrated vapors. Apply local ventilation where appropriate.

Eye Protection: Use goggles.

Skin Protection: Avoid Skin contact. Use chemically resistant gloves as needed.

9. Physical and Chemical Properties

Appearance:	Conforms to Standard	Odor:	Conforms to Standard
Color:	Nearly Colorless G0 to Yellow Tint (G0/1)	Viscosity:	Liquid
Freezing Point:	Not determined	Boiling Point:	Not determined



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9. Physical and Chemical Properties

Melting Point:	Not determined	Flashpoint:	>200 F (93.33 C)
Auto flammability:	Not determined	Explosive Properties:	None Expected
Oxidizing properties:	None Expected	Vapor Pressure (mmHg@20 C):	0.0323
%VOC:	3.8355	Specific Gravity @ 25 C:	1.0140
Density @ 25 C:	1.0110	Refractive Index @ 25 C:	1.5250
Soluble in:	Oil		

10. Stability and Reactivity

Reactivity: Presents no significant reactivity hazard, by itself or in contact with water. Avoid contact with strong acids, alkali or oxidizing agents.

Incompatibility: Avoid contact with strong acids, alkali or oxidizing agents.

Decomposition: Carbon monoxide and unidentified organic compounds may be formed during combustion.

11. Toxicological Information

Based on the ingredients in this mixture and their concentrations in accordance with the provisions of 1910.1200 of title 29 of the U.S. Code of Federal Regulations:

Acute Oral Toxicity (Rat) Overall (Calculated Estimate) LD50: 2657.68 mg/Kg

4	Harmful if swallowed, can enter lungs and cause damage		
	8000-34-8	Eugenia caryophyllus (Clove) leaf oil	(LD50 = 2650 mg/Kg)
3	May be harmful if swallowed or if aspirated into the lungs		
	120-51-4	Benzyl Benzoate	(LD50 = 1500 mg/Kg)
	60-12-8	Phenylethyl alcohol	(LD50 = 2500 mg/Kg)
	68647-72-3	Orange oil terpenes	(LD50 = >5000 mg/Kg)
	80-54-6	Butylphenyl Methylpropional	(LD50 = 1390 mg/Kg)

Acute Dermal Toxicity (Rabbit) Overall (Calculated Estimate) LD50: 2477.17 mg/Kg

None

Acute Inhalation Toxicity (Rat) Overall (Calculated Estimate) LC50: 20.00 mg/Kg

25	Inhalation at high levels may cause: tremors, labored breathing, hypothermia, lethargy, ataxia.		
	140-11-4	Benzyl acetate	(LC50 = >20 mg/L/4hr)
23	May cause respiratory tract irritation.		
	98-55-5	alpha-Terpineol	(LC50 = >20 mg/L/4hr)

Skin irritation

12	Causes moderate skin irritation.		
	68647-72-3	Orange oil terpenes	
	78-70-6	Linalool	
	8000-34-8	Eugenia caryophyllus (Clove) leaf oil	
19	May cause photo-induced skin irritation.		
	127-51-5	a-Isomethyl ionone	



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11. Toxicological Information

Eye irritation

- 15 May cause eye irritation.
- 101-86-0 Hexyl cinnamal
 - 103-45-7 Phenethyl acetate
 - 106-22-9 Citronellol
 - 106-24-1 Geraniol
 - 106-25-2 Nerol
 - 1222-05-5 Hexamethylindanopyran
 - 127-51-5 a-Isomethyl ionone
 - 140-11-4 Benzyl acetate
 - 18479-58-8 Dihydromyrcenol
 - 60-12-8 Phenylethyl alcohol
 - 67634-15-5 Ethyl 2,2-dimethylhydrocinnamal
 - 68912-13-0 3a,4,5,6,7,7a-Hexahydro-4,7-methano-1H-indenyl propionate (Mixture of Isomers)
 - 80-54-6 Butylphenyl Methylpropional
 - 98-55-5 alpha-Terpineol

Sensitization & Allergic Reactions

- 31 May cause allergic skin reaction.
- 106-24-1 Geraniol
 - 118-58-1 Benzyl Salicylate
 - 127-51-5 a-Isomethyl ionone
 - 140-11-4 Benzyl acetate
 - 68647-72-3 Orange oil terpenes
 - 80-54-6 Butylphenyl Methylpropional
 - 8000-34-8 Eugenia caryophyllus (Clove) leaf oil

Carcinogenicity or Tumorigenicity

None

Genotoxicity

- 36 Suspected of causing genetic defects
- 8000-34-8 Eugenia caryophyllus (Clove) leaf oil

Reproductive/Developmental

- 39 Causes reproductive/developmental toxicity in animals.
- 140-11-4 Benzyl acetate
 - 80-54-6 Butylphenyl Methylpropional



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11. Toxicological Information

Target Organ Effects

28	Prolonged or repeated Dermal Exposure may cause damage to: kidneys, liver, bone marrow, skin, testes	
120-51-4	Benzyl Benzoate	kidneys, skin
127-51-5	a-Isomethyl ionone	kidneys, liver, bone marrow
80-54-6	Butylphenyl Methylpropional	testes
26	Prolonged or repeated ingestion may cause damage to: kidneys, adrenal glands, liver, spleen, bone marrow, stomach, brain, thyroid, tongue, mucous membranes, musculo-skeletal system, male reproductive system.	
103-45-7	Phenethyl acetate	liver
127-51-5	a-Isomethyl ionone	kidneys, liver, spleen, bone marrow, thyroid
140-11-4	Benzyl acetate	kidneys, stomach, brain, tongue, mucous membranes, musculo-skeletal system
78-70-6	Linalool	kidneys, liver
80-54-6	Butylphenyl Methylpropional	kidneys, adrenal glands, liver, male reproductive system

12. Ecological Information

Avoid contamination of soil, ground and surface water. While no specific environmental toxicity or related data is available, fragrance compositions are not expected to accumulate in the environment and environmental problems are not expected under normal conditions of use.

13. Disposal Conditions

Dispose of according to local regulations. Avoid disposing into drainage systems and into the environment.

14. Transport Information

Regulator	Class	Pack Group	Sub Risk	UN-nr.
U.S. DOT (Non-Bulk) Chemicals NOI	Not Regulated - Not Dangerous Goods			
ADR/RID (International Road/Rail)				
Environmentally Hazardous Substance, Liquid, n.o.s.	9	III		UN3082
IATA (Air Cargo)				
Environmentally Hazardous Substance, Liquid, n.o.s.	9	III		UN3082
IMDG (Sea)				
Environmentally Hazardous Substance, Liquid, n.o.s.	9	III		UN3082

Ingredient of greatest environmental impact: 101-86-0 Hexyl cinnamal

15. Regulatory Information

The components of this fragrance product are in compliance, either listed or exempt, with the U.S. EPA Toxic Substances Control Act (TSCA) Inventory of Chemical Substances: Yes



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15. Regulatory Information

99.80% of the components of this fragrance product are found on the Canadian DSL.

The following ingredient(s) are NOT found on the DSL, status as noted:

<u>Status</u>	<u>Chemical Class</u>	<u>CAS#</u>	<u>Concentration (% by wt)</u>
NDSL	Violone (IFF Compound)	IFF#30667590	0.1 - 1.0 %

United States Code of Federal Regulations 40 CFR (EPCRA, SARA, CERCLA and CAA)

This proprietary mixture contains the following chemicals subject to reporting requirements under the Emergency Planning and Community Right-to-Know Act (EPCRA), also known as Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA), Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and chemicals listed under section 112(r) of the Clean Air Act (CAA).

<u>Chemical Class</u>	<u>CAS#</u>	<u>Concentration (% by wt)</u>
NONE		

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)

This product contains the following chemical(s) known to the State of California to cause cancer, birth defects or other reproductive harm (NFS = In accordance with Title 22, California Code of Regulations, Division 2, Part 2, Subdivision 1, Chapter 3, subsection (b) of Section 12501, this material is exempt from reporting as a naturally occurring chemical from a food source):

<u>Chemical Class</u>	<u>CAS#</u>	<u>Concentration (% by wt)</u>
Safrole (NFS)	94-59-7	<= 6 ppm
Methyl eugenol (NFS)	93-15-2	<= 11 ppm

16. Other Information

Disclaimer

The information in this MSDS pertains only to the material referred to in Section I. Any modification to the fragrance or use of the fragrance in a product application requires a new MSDS for the finished product, which is the responsibility of the user to obtain and produce its own.

The information in this MSDS was obtained from current and reliable sources. However, the data is provided without any warrant, expressed or implied, regarding its correctness or accuracy. Since the use, handling, storage and disposal of this product are beyond Agilex Flavors & Fragrances™ Inc. control, it is the responsibility of the user both to determine safe conditions for the use of this product and to assume liability of loss, damage, or expense arising out of the product's improper use. No warranty expressed or implied regarding the product described herein shall be created by or inferred from any statement or mission in this MSDS. Various Federal, State or Provincial agencies may have specific regulations concerning the transportation, handling, storage, use, or disposal of this product, which may not be reflected in this MSDS. The user should review these regulations to ensure full compliance.