

Safety Data Sheet

SDS Type: GHS / OSHA

DOC ID: 41666.993928.1111673

Product: **Fern**
Product#: **245909**
SKU#: **fer**

Page 1 of 7
2014-01-29

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade Name: Fern
Product/Sales No: 245909

1.2 Relevant identified product use

Intended use: Compound used in customer substance/mixture/product

1.3 Details of the manufacturer/supplier of the safety data sheet

Wellington Fragrance
33306 Glendale St.
Livonia, MI 48150 USA
734-261-5531 Fax 734-261-5571
wellingtonfragrance.com

1.4 Emergency telephone number

(800) 255-3924 Domestic USA, Canada, Puerto Rico, and US Virgin Islands
+1 813 248-0585 International (CHEMTEL #MIS 0000533)

2. Hazards Identification

2.1 Classification of the substance or mixture

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 the regulation(s) noted below.

Classification according to GHS Regulation (EC) No 1272/2008

Aquatic Acute Toxicity, Category 2	:
Flammable Liquids, Category 4	H227: Combustible liquid
Acute Toxicity Dermal, Category 5	H313: May be harmful in contact with skin
Skin Corrosion/Irritation, Category 2	H315: Causes skin irritation
Sensitization, Skin, Category 1B	H317: May cause an allergic skin reaction
Eye Damage/Eye Irritation, Category 2A	H319: Causes serious eye irritation
Acute Toxicity Inhalation, Category 3	H331: Toxic if inhaled
Aquatic Chronic Toxicity, Category 2	H411: Toxic to aquatic life with long lasting effects

Classification OSHA (Provisions 1910.1200 of title 29)

Flammability	Class IIIA Combustible Liquid
Acute Dermal/Eye	12 : Causes moderate skin irritation. 15 : May cause eye irritation.
Acute Oral	2 : Harmful if swallowed
Sensitization/Allergic Response	31 : May cause allergic skin reaction.
Target Organ Effects	26 : Prolonged or repeated ingestion may cause damage to: kidneys, liver.
Carcinogenicity	This mixture contains ingredients identified as carcinogens, at 0.1% or greater, by the following:None [X] ACGIH [] IARC [] NTP [] OSHA []

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms

Safety Data Sheet

SDS Type: GHS / OSHA

DOC ID: 41666.993928.1111673

Product: **Fern**
Product#: **245909**
SKU#: **fer**

Page 2 of 7
2014-01-29



Signal Word: Danger, Warning

Hazard statements

H227	Combustible liquid
H313	May be harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H331	Toxic if inhaled
H411	Toxic to aquatic life with long lasting effects

Precautionary Statements

Prevention:

P233	Keep container tightly closed
P235	Keep cool
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

Response:

P302 + P352	IF ON SKIN: Wash with soap and water
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes Remove contact lenses if present and easy to do. continue rinsing
P311	Call a POISON CENTER or doctor/physician
P333 + P313	If skin irritation or a rash occurs: Get medical advice/attention
P337 + P313	If eye irritation persists: Get medical advice/attention
P362	Take off contaminated clothing and wash before reuse
P363	Wash contaminated clothing before reuse
P370 + P378	In case of fire: Use Carbon dioxide (CO2), Dry chemical, or Foam for extinction. Do not use a direct water jet on burning material
P391	Collect Spillage

2.3 Other Hazards

no data available

3. Composition/Information on Ingredients

3.1 Mixtures

This product is a complex mixture of ingredients, which contains among others the following substance(s), presenting a health or environmental hazard within the meaning of the UN Globally Harmonized System of Classification and Labeling of Chemicals (GHS):

Safety Data Sheet

SDS Type: GHS / OSHA

DOC ID: 41666.993928.1111673

Product: **Fern**
Product#: **245909**
SKU#: **fer**Page 3 of 7
2014-01-29

CAS# Ingredient	EC#	Conc. Range	GHS Classification	OSHA Classification
84-66-2 <i>Diethyl phthalate</i>	201-550-6	60 - 70 %	H316	
78-70-6 <i>Linalool</i>	201-134-4	10 - 20 %	H227; H303; H315; H319	12, 26
32210-23-4 <i>4-tert-Butylcyclohexyl acetate</i>	250-954-9	5 - 10 %	H303; H316; H317; H411	11, 15
88-41-5 <i>2-t-Butylcyclohexyl acetate</i>	201-828-7	2 - 5 %	H227; H303; H316; H411	12, 2
1222-05-5 <i>Hexamethylindanopyran</i>	214-946-9	2 - 5 %	H316; H410	11, 15
928-96-1 <i>3-Hexenol</i>	213-192-8	1 - 2 %	H226; H319	
60047-17-8 <i>2-(Tetrahydro-5-methyl-5-vinyl-2-furyl)propan-2-ol</i>	262-038-6	1 - 2 %	H302; H315; H319	
68737-61-1 <i>Dimethyltetrahydro Benaldehyde</i>	272-113-5	1 - 2 %	H227; H303; H313; H315; H317; H319; H412	12, 15, 31
128-37-0 <i>Butylated hydroxytoluene</i>	204-881-4	1 - 2 %	H316; H410	

See Section 16 for full text of GHS classification codes

Total Hydrocarbon Content (% w/w) = 0.00

4. First Aid Measures

4.1 Description of 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.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms:	no data available
Risks:	Refer to Section 2.2 "Hazard Statements"

4.3 Indication of any immediate medical attention and special treatment needed

Treatment:	Refer to Section 2.2 "Response"
-------------------	---------------------------------

5. Fire-Fighting measures

5.1 Extinguishing media

Suitable:	Carbon dioxide (CO ₂), Dry chemical, Foam
Unsuitable	Do not use a direct water jet on burning material

5.2 Special hazards arising from the substance or mixture

Safety Data Sheet

SDS Type: GHS / OSHA

DOC ID: 41666.993928.1111673

Product: **Fern**
Product#: **245909**
SKU#: **fer**

Page 4 of 7
2014-01-29

- During fire fighting:** Water may be ineffective
- 5.3 Advice for firefighters**
- Further information:** Standard procedure for chemical fires

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

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

6.2 Environmental precautions

Keep away from drains, soil, and surface and groundwater.

6.3 Methods and materials for containment and cleaning up

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.

6.4 Reference to other sections

Not Applicable

7. Handling and Storage

7.1 Precautions for safe 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.

7.2 Conditions for safe storage, including any incompatibilities

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.

7.3 Specific end uses

No information available

8. Exposure Controls/Personal Protection

8.1 Control parameters

Exposure Limits:

Component	ACGIH	ACGIH	OSHA	OSHA
	TWA ppm	STEL ppm	TWA ppm	STEL ppm
84-66-2 <i>Diethyl phthalate</i>		5		
128-37-0 <i>Butylated hydroxytoluene</i>		2		

Engineering Controls: Use local exhaust as needed.

8.2 Exposure controls - Personal protective equipment

- Eye protection:** Tightly sealed goggles, face shield, or safety glasses with brow guards and side shields, etc. as may be appropriate for the exposure
- Respiratory protection:** Avoid excessive inhalation of concentrated vapors. Apply local ventilation where appropriate.
- Skin protection:** Avoid Skin contact. Use chemically resistant gloves as needed.

Safety Data Sheet

SDS Type: GHS / OSHA

DOC ID: 41666.993928.1111673

Product: **Fern**
Product#: **245909**
SKU#: **fer**

Page 5 of 7
2014-01-29

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance:	Conforms to Standard
Odor:	Conforms to Standard
Color:	Colorless to Yellow Tint
Viscosity:	Liquid
Freezing Point:	Not determined
Boiling Point:	Not determined
Melting Point:	Not determined
Flashpoint:	195 F (90.56 C)
Auto flammability:	Not determined
Explosive Properties:	None Expected
Oxidizing properties:	None Expected
Vapor Pressure (mmHg@20 C):	0.0261
%VOC:	2.3522
Specific Gravity @ 25 C:	1.0340
Density @ 25 C:	1.0310
Refractive Index @ 25 C:	1.4870
Soluble in:	Oil

10. Stability and Reactivity

10.1 Reactivity	None
10.2 Chemical stability	Stable
10.3 Possibility of hazardous reactions	None known
10.4 Conditions to avoid	None known
10.5 Incompatible materials	Strong oxidizing agents, strong acids, and alkalis
10.6 Hazardous decomposition products	None known

11. Toxicological Information

11.1 Toxicological Effects

Acute toxicity - Oral	(LD50: 5,049.77) Not classified - the classification criteria are not met
Acute toxicity - Dermal	(LD50: 4,974.30) May be harmful in contact with skin
Acute toxicity - Inhalation	(LC50: 6.28) Toxic if inhaled
Skin corrosion / irritation	Causes skin irritation
Serious eye damage / irritation	Causes serious eye irritation
Respiratory sensitization	Not classified - the classification criteria are not met
Skin sensitization	May cause an allergic skin reaction

Safety Data Sheet

SDS Type: GHS / OSHA

DOC ID: 41666.993928.1111673

Product: **Fern**
Product#: **245909**
SKU#: **fer**

Page 6 of 7
2014-01-29

Germ cell mutagenicity	Not classified - the classification criteria are not met
Carcinogenicity	Not classified - the classification criteria are not met
Reproductive toxicity	Not classified - the classification criteria are not met
Specific target organ toxicity - single exposure	Not classified - the classification criteria are not met
Specific target organ toxicity - repeated exposure	Not classified - the classification criteria are not met
Aspiration hazard	Not classified - the classification criteria are not met

12. Ecological Information

12.1 Toxicity

Acute aquatic toxicity	
Chronic aquatic toxicity	Toxic to aquatic life with long lasting effects
Toxicity Data on soil	no data available
Toxicity on other organisms	no data available

12.2 Persistence and degradability	no data available
12.3 Bioaccumulative potential	no data available
12.4 Mobility in soil	no data available
12.5 Other adverse effects	no data available

13. Disposal Conditions

13.1 Waste treatment methods

Do not allow product to reach sewage systems. Dispose of in accordance with all local and national regulations. Send to a licensed waste management company. The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container.

14. Transport Information

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

Safety Data Sheet

SDS Type: GHS / OSHA

DOC ID: 41666.993928.1111673

Product: **Fern**
Product#: **245909**
SKU#: **fer**

Page 7 of 7
2014-01-29

15. Regulatory Information

U.S. Federal Regulations:

TSCA (Toxic Substance Control Act): All components of the substance/mixture are listed or exempt
40 CFR(EPCRA, SARA, CERCLA and CAA) This product contains the following components:
84-66-2 201-550-6 60 - 70 % Diethyl phthalate

U.S. State Regulations:

California Proposition 65 Warning No Warning required

Canadian Regulations:

DSL / NDSL 100.00% of the components are listed or exempt.

16. Other Information

GHS H-Statements referred to under section 3

H226 : Flammable liquid and vapour	H227 : Combustible liquid
H302 : Harmful if swallowed	H303 : May be harmful if swallowed
H313 : May be harmful in contact with skin	H315 : Causes skin irritation
H316 : Causes mild skin irritation	H317 : May cause an allergic skin reaction
H319 : Causes serious eye irritation	H410 : Very toxic to aquatic life with long lasting effects
H411 : Toxic to aquatic life with long lasting effects	H412 : Harmful to aquatic life with long lasting effects

Total Fractional Values

(TFV) Risk	(TFV) Risk
(1.66) Aquatic Acute Toxicity, Category 2	(1.76) Skin Corrosion/Irritation, Category 2
(5.32) Sensitization, Skin, Category 1B	(1.87) Eye Damage/Eye Irritation, Category 2A
(1.65) Aquatic Chronic Toxicity, Category 2	

Department issuing data sheet:

Department E-mail address:

Remarks

This safety data sheet is based on the properties of the material known to Wellington Fragrance at the time the data sheet was issued. The safety data sheet is intended to provide information for a health and safety assessment of the material and the circumstances, under which it is packaged, stored or applied in the workplace. For such a safety assessment Wellington holds no responsibility. This document is not intended for quality assurance purposes.