



# Christmas Splendor

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Issue date: 01/03/2019

Revision date: 07/14/2020

Version: 3.1

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Product name : Christmas Splendor  
Product code : A-R10591-35

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Perfume ingredient. Not for use in food or feed.

#### 1.3. Supplier

AAA Candle Supplies, Inc.  
10460 Brockwood Rd  
Dallas, Texas 75238  
T (214) 342-9898  
[www.AAACandleSupply.com](http://www.AAACandleSupply.com)

#### 1.4. Emergency telephone number

No additional information available

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

Flammable liquids Category 4	H227	Combustible liquid
Skin corrosion/irritation Category 2	H315	Causes skin irritation
Serious eye damage/eye irritation Category 2	H319	Causes serious eye irritation
Skin sensitization, Category 1	H317	May cause an allergic skin reaction
Carcinogenicity Category 1B	H350	May cause cancer
Specific target organ toxicity (repeated exposure) Category 2	H373	May cause damage to organs through prolonged or repeated exposure

Full text of H statements : see section 16

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) :

Danger

Hazard statements (GHS US) :

Combustible liquid  
Causes skin irritation  
May cause an allergic skin reaction  
Causes serious eye irritation  
May cause cancer  
May cause damage to organs through prolonged or repeated exposure

Precautionary statements (GHS US) :

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Do not breathe mist, vapors and spray.  
Wash hands, forearms and face thoroughly after handling.  
Contaminated work clothing must not be allowed out of the workplace.  
Wear protective gloves, protective clothing, eye and face protection  
If on skin: Wash with plenty of water.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If exposed or concerned: Get medical attention.  
Get medical attention if you feel unwell.  
If skin irritation or rash occurs: Get medical attention.  
If eye irritation persists: Get medical attention.  
Take off contaminated clothing and wash it before reuse.  
In case of fire: Use media other than water to extinguish.  
Store in a well-ventilated place. Keep cool.  
Store locked up.  
Dispose of contents and container in accordance with applicable regulations.

#### 2.3. Other hazards which do not result in classification

No additional information available

# Christmas Splendor

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%*	GHS US classification
eugenol	(CAS-No.) 97-53-0	5 - 20	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 2, H401
cinnamaldehyde	(CAS-No.) 104-55-2	5 - 20	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
cinnamic alcohol	(CAS-No.) 104-54-1	< 5	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317
diethylmalonate	(CAS-No.) 105-53-3	< 5	Flam. Liq. 4, H227 Eye Irrit. 2A, H319 Aquatic Acute 3, H402
benzyl benzoate	(CAS-No.) 120-51-4	< 5	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
4-undecanolide	(CAS-No.) 104-67-6	< 5	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 Aquatic Acute 3, H402 Aquatic Chronic 3, H412
coumarin	(CAS-No.) 91-64-5	< 5	Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317 STOT RE 2, H373
alpha-hexylcinnamaldehyde	(CAS-No.) 101-86-0	< 5	Skin Irrit. 2, H315 Eye Irrit. 2B, H320 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
methyl cinnamate	(CAS-No.) 103-26-4	< 5	Skin Sens. 1A, H317 Skin Sens. 1B, H317
Orange terpenes	(CAS-No.) 8028-48-6	< 5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Methyl eugenol	(CAS-No.) 93-15-2	< 5	Acute Tox. 4 (Oral), H302 Muta. 2, H341 Carc. 1B, H350
alpha-pentylcinnamaldehyde	(CAS-No.) 122-40-7	< 5	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 2, H401 Aquatic Chronic 2, H411

\*Exact concentrations have been withheld as a trade secret

Full text of hazard classes and H-statements : see section 16

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

First-aid measures general	: If exposed or concerned: Get medical attention.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.

### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Eye irritation.

# Christmas Splendor

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

### 5.2. Specific hazards arising from the chemical

Fire hazard : Combustible liquid.

Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

### 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : No open flames, no sparks, and no smoking. Only qualified personnel equipped with suitable protective equipment may intervene. Do not breathe mist, vapors and spray.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

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

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Do not breathe mist, vapors and spray. Avoid contact with skin and eyes.

Hygiene measures : Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Storage conditions : Store in a well-ventilated place. Keep cool. Store locked up.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

None established for components

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

Hand protection : Protective gloves

Eye protection : Safety glasses

Skin and body protection : Wear suitable protective clothing

Respiratory protection : Wear respiratory protection.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Color : Colorless to light yellow

Odor : Characteristic – Christmas Splendor

Odor threshold : No data available

pH : No data available

# Christmas Splendor

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 192 °F
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Specific gravity	No data available
Relative density	: No data available
Solubility	: Insoluble in water. Soluble in oil. Soluble in organic solvents.
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

<b>4-undecanolide (104-67-6)</b>	
LD50 oral rat	18500 mg/kg (Rat)
ATE US (oral)	18500 mg/kg body weight
<b>alpha-pentylcinnamaldehyde (122-40-7)</b>	
LD50 oral rat	3730 mg/kg (Rat)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit)
ATE US (oral)	3730 mg/kg body weight
<b>benzyl benzoate (120-51-4)</b>	
LD50 oral rat	1870 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Experimental value; >2000 mg/kg bodyweight; Rat)
LD50 dermal rat	4400 mg/kg (Rat)
LD50 dermal rabbit	4000 mg/kg (Rabbit; Experimental value; Modification of Draize 1959 method; >2; Rabbit)
ATE US (oral)	1500 mg/kg body weight
ATE US (dermal)	4000 mg/kg body weight

# Christmas Splendor

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<b>cinnamic alcohol (104-54-1)</b>	
LD50 oral rat	> 2000 mg/kg (Rat)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit)
ATE US (oral)	500 mg/kg body weight
<b>cinnamaldehyde (104-55-2)</b>	
LD50 oral rat	2220 mg/kg (Rat)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit)
ATE US (oral)	500 mg/kg body weight
ATE US (dermal)	1100 mg/kg body weight
<b>coumarin (91-64-5)</b>	
LD50 oral rat	300 - 900 mg/kg (Rat)
ATE US (oral)	300 mg/kg body weight
<b>diethylmalonate (105-53-3)</b>	
LD50 oral rat	15794 mg/kg (Rat)
LD50 dermal rabbit	> 16960 mg/kg (Rabbit)
ATE US (oral)	15794 mg/kg body weight
<b>eugenol (97-53-0)</b>	
LD50 oral rat	2680 mg/kg (Rat)
ATE US (oral)	2500 mg/kg body weight
<b>alpha-hexylcinnamaldehyde (101-86-0)</b>	
LD50 oral rat	3100 mg/kg (Rat)
LD50 dermal rabbit	> 3000 mg/kg (Rabbit)
ATE US (oral)	3100 mg/kg body weight
<b>methyl cinnamate (103-26-4)</b>	
LD50 oral rat	2610 mg/kg (Rat)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit)
ATE US (oral)	2610 mg/kg body weight
<b>Methyl eugenol (93-15-2)</b>	
ATE US (oral)	1180 mg/kg body weight
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: May cause cancer.
<b>coumarin (91-64-5)</b>	
IARC group	3 - Not classifiable
<b>eugenol (97-53-0)</b>	
IARC group	3 - Not classifiable
<b>Methyl eugenol (93-15-2)</b>	
IARC group	2B - Possibly carcinogenic to humans
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
<b>4-undecanolide (104-67-6)</b>	
STOT-single exposure	May cause respiratory irritation.
<b>Orange terpenes (8028-48-6)</b>	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.
<b>coumarin (91-64-5)</b>	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified

# Christmas Splendor

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Viscosity, kinematic	: No data available
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Eye irritation.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

4-undecanolide (104-67-6)	
LC50 fish 1	569 mg/l (LC50; 96 h)
EC50 Daphnia 1	17 mg/l (EC50; 48 h)

alpha-pentylcinnamaldehyde (122-40-7)	
LC50 fish 1	3 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Brachydanio rerio)
EC50 Daphnia 1	1.1 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilization Test; 96 h; Daphnia magna)

coumarin (91-64-5)	
LC50 fish 1	56 mg/l (LC50; 96 h)
EC50 Daphnia 1	135 mg/l (EC50; 48 h)

diethylmalonate (105-53-3)	
LC50 fish 1	11.8 mg/l (LC50; 96 h)
EC50 Daphnia 1	202.3 mg/l (EC50; 48 h)
Threshold limit algae 1	508.2 mg/l (EC50; 72 h)

eugenol (97-53-0)	
LC50 fish 1	24 mg/l (LC50; 96 h)

#### 12.2. Persistence and degradability

4-undecanolide (104-67-6)	
Persistence and degradability	Biodegradability in water: no data available.

alpha-pentylcinnamaldehyde (122-40-7)	
Persistence and degradability	Readily biodegradable in water. Biodegradability in soil: no data available. Adsorbs into the soil.

benzyl benzoate (120-51-4)	
Persistence and degradability	Readily biodegradable in water. Low potential for mobility in soil.

cinnamic alcohol (104-54-1)	
Persistence and degradability	Readily biodegradable in water.

cinnamaldehyde (104-55-2)	
Persistence and degradability	Readily biodegradable in water.

coumarin (91-64-5)	
Persistence and degradability	Readily biodegradable in water. Photolysis in the air.

diethylmalonate (105-53-3)	
Persistence and degradability	Readily biodegradable in water.

eugenol (97-53-0)	
Persistence and degradability	Biodegradability in water: no data available.

alpha-hexylcinnamaldehyde (101-86-0)	
Persistence and degradability	Readily biodegradable in water.

methyl cinnamate (103-26-4)	
Persistence and degradability	Biodegradability in water: no data available.

Orange terpenes (8028-48-6)	
Persistence and degradability	Biodegradability in water: no data available.

#### 12.3. Bioaccumulative potential

4-undecanolide (104-67-6)	
Log Pow	3.06 (Estimated value)

alpha-pentylcinnamaldehyde (122-40-7)	
Log Pow	4.3 - 4.7

# Christmas Splendor

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<b>benzyl benzoate (120-51-4)</b>	
BCF fish 1	2286 (BCF; BCFBAF v3.00; Pisces)
Log Pow	3.88 - 4
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
<b>cinnamic alcohol (104-54-1)</b>	
Log Pow	1.95
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
<b>cinnamaldehyde (104-55-2)</b>	
Log Pow	1.9 - 2.22
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
<b>coumarin (91-64-5)</b>	
BCF fish 1	< 10 (BCF; 72 h)
BCF other aquatic organisms 1	42 (BCF; 24 h; Chlorella sp.)
Log Pow	1.39
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
<b>diethylmalonate (105-53-3)</b>	
Log Pow	0.96
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
<b>eugenol (97-53-0)</b>	
Log Pow	2.27
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
<b>alpha-hexylcinnamaldehyde (101-86-0)</b>	
BCF other aquatic organisms 1	3120 (BCF)
Log Pow	4.7
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).
<b>methyl cinnamate (103-26-4)</b>	
Bioaccumulative potential	No bioaccumulation data available.
<b>Orange terpenes (8028-48-6)</b>	
Bioaccumulative potential	No bioaccumulation data available.
<b>12.4. Mobility in soil</b>	
<b>benzyl benzoate (120-51-4)</b>	
Surface tension	0.027 N/m (210 °C)
Log Koc	log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC); 3,8; Experimental value
<b>diethylmalonate (105-53-3)</b>	
Ecology - soil	May be harmful to plant growth, blooming and fruit formation.
<b>12.5. Other adverse effects</b>	
No additional information available	
<b>SECTION 13: Disposal considerations</b>	
<b>13.1. Disposal methods</b>	
Waste treatment methods	: Dispose of contents and container in accordance with licensed collector's sorting instructions.
<b>SECTION 14: Transport information</b>	
<b>Department of Transportation (DOT)</b>	
In accordance with DOT	: Non-hazardous; not regulated.
<b>SECTION 15: Regulatory information</b>	
<b>15.1. US Federal regulations</b>	
All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory	
<b>Methyl eugenol (93-15-2)</b>	
Subject to reporting requirements of United States SARA Section 313	
<b>15.2. International regulations</b>	
No additional information available	

# Christmas Splendor

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 15.3. US State regulations

**⚠ WARNING:** This product can expose you to Methyl eugenol, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Name	CAS-No.	U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Methyl eugenol	93-15-2	X	--	--	--	--	--

Component	State or local regulations
diethylmalonate(105-53-3)	U.S. - New Jersey - Right to Know Hazardous Substance List
Methyl eugenol(93-15-2)	U.S. - New Jersey - Right to Know Hazardous Substance List

### SECTION 16: Other information

Revision date : 07/14/2020

Full text of H-phrases:

H226	Flammable liquid and vapor.
H227	Combustible liquid
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H312	Harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H320	Causes eye irritation
H335	May cause respiratory irritation
H341	Suspected of causing genetic defects
H350	May cause cancer
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H401	Toxic to aquatic life
H402	Harmful to aquatic life
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

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*