

# Firmenich

## GHS Safety Data Sheet - US

According to Regulation HCS 2012

This Safety Data Sheet cancels and replaces all preceding SDS for this product.

### **1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

#### 1.1 Product identifier

**184036**  
WARDIA® 184036  
© Firmenich product

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Fragrance ingredient for use in consumer products.  
Not for personal use in this form or concentration.  
Intended to be used in the manufacture of products for consumers

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

Firmenich Incorporated  
250 Plainsboro Road  
Princeton  
New Jersey 08536  
USA  
Tel: +1 609 452 10 00

PSRA.Fragrance.Firinc@firmenich.com

#### 1.4 Emergency telephone number

FOR INFORMATION OR IN AN EMERGENCY CALL NCEC @ +1 866 928 0789 (TOLL FREE) OR +1 215 207 0061.

### **2 HAZARDS IDENTIFICATION**

#### 2.1 Classification of the substance or mixture

According to Regulation HCS 2012

Acute Toxicity (oral) - Cat. 4	H302
Skin Irritation - Cat. 2	H315
Skin Sensitization - Cat. 1	H317
Eye Damage - Cat.1	H318

#### Additional information

Full text of listed statements : See section 16

#### 2.2 Label elements

**Hazard pictograms:**

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### Signal Word:

Danger

### Hazard Statements:

H318 Causes serious eye damage.  
H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.

### Precautionary Statements:

P261 Avoid breathing mist/vapours.  
P264 Wash thoroughly after handling.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### 2.3 Other hazards

No data available at this time.

## 3 COMPOSITION/INFORMATION ON INGREDIENTS

The exact percentage (concentration) of composition has been withheld as a trade secret.

### 3.2 Mixture

Mixture of aromatic substances.

#### Contains :

>= 40.0 < 50.0%

Benzeneethanol

N° CAS : 0000060-12-8

N° EINECS: 200-456-2

N° EU REACH: 01-2119963921-31

#### GHS Classification:

Acute Toxicity (oral) - Cat. 4 [H302]

Eye Irritation - Cat.2A [H319]

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<p>&gt;= 7.5 &lt; 10.0% 6-Octen-1-ol, 3,7-Dimethyl- N° CAS : 0000106-22-9 N° EINECS: 203-375-0 N° EU REACH: 01-2119453995-23</p>	<p>Skin Sensitization - Cat. 1B [H317] Skin Irritation - Cat. 2 [H315] Eye Irritation - Cat.2A [H319]</p>
<p>&gt;= 7.5 &lt; 10.0% 2,6-Octadien-1-ol, 3,7-Dimethyl-, (E)- N° CAS : 0000106-24-1 N° EINECS: 203-377-1 N° EU REACH: 01-2119552430-49</p>	<p>Eye Damage - Cat.1 [H318] Skin Sensitization - Cat. 1 [H317] Skin Irritation - Cat. 2 [H315]</p>
<p>&gt;=2.5 &lt; 5.0% Octanal, 7-Hydroxy-3,7-Dimethyl- N° CAS : 0000107-75-5 N° EINECS: 203-518-7 N° EU REACH: 01-2119973482-31</p>	<p>Skin Sensitization - Cat. 1B [H317] Eye Irritation - Cat.2A [H319]</p>
<p>&gt;= 1.0 &lt; 2.5% 2,6-Octadien-1-ol, 3,7-Dimethyl-, (Z)- N° CAS : 0000106-25-2 N° EINECS: 203-378-7 N° EU REACH: 01-2119983244-33</p>	<p>Skin Sensitization - Cat. 1B [H317] Skin Irritation - Cat. 2 [H315] Eye Irritation - Cat.2A [H319]</p>
<p>&gt;= 1.0 &lt; 2.5% Linalool N° CAS : 0000078-70-6 N° EINECS: 201-134-4 N° EU REACH: 01-2119474016-42</p>	<p>Skin Sensitization - Cat. 1B [H317] Skin Irritation - Cat. 2 [H315] Eye Irritation - Cat.2A [H319] Flammable Liquid - Cat. 4 [H227]</p>
<p>&gt;= 0.5 &lt; 1.0% Eugenol N° CAS : 0000097-53-0 N° EINECS: 202-589-1 N° EU REACH: 01-2119971802-33</p>	<p>Skin Sensitization - Cat. 1B [H317] Eye Irritation - Cat.2A [H319]</p>
<p>&gt;= 0.5 &lt; 1.0% 2,6-Octadien-1-ol, 3,7-Dimethyl-, Acetate, (E)- N° CAS : 0000105-87-3 N° EINECS: 203-341-5 N° EU REACH: 01-2119973480-35</p>	<p>Skin Sensitization - Cat. 1B [H317] Skin Irritation - Cat. 2 [H315] Environmental Hazard (chronic) - Cat. 3 [H412]</p>
<p>&gt;= 0.1 &lt; 0.5% Benzene, 1,1'-Oxybis- N° CAS : 0000101-84-8 N° EINECS: 202-981-2 N° EU REACH: 01-2119472545-33</p>	<p>Eye Irritation - Cat.2A [H319] Environmental Hazard (acute) - Cat. 1 [H400] Environmental Hazard (chronic) - Cat. 3 [H412]</p>

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>= 0.1 < 0.5% 10-Undecenal N° CAS : 0000112-45-8 N° EINECS: 203-973-1 N° EU REACH: 01-2119990746-20	Skin Sensitization - Cat. 1B [H317] Environmental Hazard (chronic) - Cat. 3 [H412] Flammable Liquid - Cat. 4 [H227]
>= 0.1 < 0.5% Citral N° CAS : 0005392-40-5 N° EINECS: 226-394-6 N° EU REACH: 01-2119462829-23	Skin Sensitization - Cat. 1 [H317] Skin Irritation - Cat. 2 [H315] Eye Irritation - Cat.2A [H319]
>= 0.1 < 0.5% Benzeneacetaldehyde, 4-Methyl- N° CAS : 0000104-09-6 N° EINECS: 203-173-2	Skin Sensitization - Cat. 1A [H317] Flammable Liquid - Cat. 4 [H227]

#### **4 FIRST-AID MEASURES**

##### 4.1 Description of first aid measures

General information:

As in all cases of potential poisoning, Obtain medical advice immediately.

In case of eye contact:

In the event of contact with the eyes, irrigate with water for at least 15 minutes; obtain medical advice if irritation persists.

In case of inhalation:

In the event of exposure to vapors, immediately remove from the area to a fresh air environment. Individuals showing evidence of inhalation exposure should be taken to an uncontaminated area. Obtain medical advice immediately.

In case of skin contact:

Remove contaminated clothes. Wash skin with large volumes of water. If irritation persists, or any sign of tissue damage is apparent, obtain medical advice immediately.

In case of ingestion:

In the event of accidental ingestion, rinse mouth with water. Give up to one tumbler (half pint) of milk or water. Obtain medical advise immediately. Do not induce vomiting, obtain medical advise immediately.

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

No information available on the product itself.

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

None known.

#### **5 FIRE-FIGHTING MEASURES**

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### 5.1 Extinguishing media

In the event of fire, adequate extinguishers should be used. Avoid inhalation of smoke and fumes. In case of insufficient ventilation, wear suitable respiratory equipment.  
Use standard procedures and preferred extinguishing media as stated below.  
Extinguishing media: Foam, carbon dioxide or dry chemical.

### 5.2 Special hazard arising from the substance or mixture

None.

### 5.3 Advice for fire-fighters

No specific advice.

## **6 ACCIDENTAL RELEASE MEASURES**

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

For non-emergency personnel:  
Impervious gloves should be worn when handling spillages. No smoking. Avoid naked flames or other potential sources of ignition (eg. electrical equipment).  
Avoid skin contamination and inhalation of vapour.  
Individual washing routines should be followed after any potential contact.  
Ensure adequate ventilation in working areas following accidental releases.

For emergency personnel:  
Apply the same recommendations as section 6.1

### 6.2 Environmental precautions

Do not discharge directly into drains, air, into soil or into the aquatic environment.

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

For containment:  
Small spills can be wiped up with a cloth or paper. Standard absorbents can be used (saw dust, sand, vermiculite). Wear rubber gloves. Avoid contact with skin. If skin contact occurs, wash liberally with soap and water.

For cleaning-up:  
Spillages should be disposed of in accordance with Governmental Regulations.

## **7 HANDLING AND STORAGE**

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes.  
Wear impervious gloves protection and eye/face protection.  
No smoking. Avoid any sources of ignition.  
Avoid exposing to high temperature during processing.  
Do not ingest or apply to the skin as such. Good personal washing routines should be followed.  
Maintain adequate local and general ventilation where product is handled.

### Protective measures

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Keep strict control of dust accumulation to a minimum. Maintain adequate local and general ventilation where product is handled. Avoid any sources of ignition.

### Advice on general occupational hygiene

Good personal washing routines should be followed.

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

It is good general practice to store in closed, preferably full, containers away from heat sources, and protected from extremes of temperature. Do not re-use the empty container.  
Respect general rules for compatibility storage.

### 7.3 Specific end use(s)

Not available at this time.

## **8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

### 8.1 Control parameters

0000101-84-8 : PHENYL ETHER (VAPOR)  
US NIOSH Pocket Guide to Chemical Hazards Data  
US. NIOSH: Pocket Guide to Chemical Hazards, as amended  
Occupational Exposure Limit data. Recommended exposure limit (REL): 1 ppm  
Occupational Exposure Limit data. Recommended exposure limit (REL): 7 mg/m<sup>3</sup>

0000101-84-8 : PHENYL ETHER (VAPOR)  
US OSHA Table Z-1 Data  
US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)  
Occupational Exposure Limit data. Permissible exposure limit: 1 ppm  
Occupational Exposure Limit data. Permissible exposure limit: 7 mg/m<sup>3</sup>

0000101-84-8 : PHENYL ETHER (VAPOR)  
US OSHA Table Z-1-A Data  
US. OSHA Table Z-1-A (29 CFR 1910.1000)  
Occupational Exposure Limit data. Time Weighted Average (TWA): 1 ppm  
Occupational Exposure Limit data. Time Weighted Average (TWA): 7 mg/m<sup>3</sup>

0000101-84-8 : Phenyl ether, vapor fraction  
US ACGIH Threshold Limit Values Data  
US. ACGIH Threshold Limit Values, as amended  
Occupational Exposure Limit data. Short Term Exposure Limit (STEL): 2 ppm  
Occupational Exposure Limit data. Time Weighted Average (TWA): 1 ppm

0005392-40-5 : Citral, inhalable fraction and vapor  
US ACGIH Threshold Limit Values Data  
US. ACGIH Threshold Limit Values, as amended  
Occupational Exposure Limit data. Time Weighted Average (TWA): 5 ppm

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### Derived No Effect Level (DNEL)

No data available

### Predicted No Effect Concentration (PNEC)

No data available

### 8.2 Exposure controls

Avoid exposing to high temperature during processing.  
Maintain adequate local and general ventilation where product is handled.

### Appropriate engineering controls

Maintain adequate local and general ventilation where product is handled and dispensed.

### Environmental exposure controls

Not available at this time. Minimize release to the environment.

### Personal protection

Respiratory protection: Breathing of the vapors or dust particles may be hazardous. In the absence of appropriate engineering controls such as spot ventilation, ventilated enclosures, etc., workers should avail themselves of the appropriate NIOSH approved respiratory protection.

Hand protection: Adequate and Impervious Protective Gloves should be worn.

Eye protection: Adequate safety glasses should be used.

Skin protection: Wear protective clothing, overall if necessary to limit the odour contamination of personal clothing. Individual washing routines should be followed after any potential contact.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance :	LIQUID
Colour :	PALE YELLOW
Odour :	Characteristic strong odour according to the commercial description of the substance.
pH :	Not available
Melting point/range (°C) :	Not available
Initial boiling point/range :	Not available
Flash point (closed cup) :	> 212 Fahrenheit (> 100 Centigrade)
Evaporation rate :	Not available
Flammability (solid/gas) :	Not applicable
Upper/lower flammability or explosive limits :	N/A
Vapor pressure (At 20°C in mm Hg) :	
Calculated vapor pressure (At 20°C in mm Hg):	< 0.1 mm
Vapour density :	Not available
Relative density (d 20/20) :	0.999 - 1.009
Water solubility (20°C) :	Not applicable
Partition coef. (n-octanol/water) :	Not applicable
Auto-ignition temperature (°C):	Not available
Decomposition temperature :	Not available

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Viscosity : Not available  
Explosive properties : Not available  
Oxidizing properties : Not available

### 9.2 Other safety information

None

## **10 STABILITY AND REACTIVITY**

### 10.1 Reactivity

No reaction known with water.

### 10.2 Chemical stability

Presents no significant reactivity hazard. Normally stable even at elevated temperatures and pressures. Avoid temperatures above or near to the flash point. Not pyrophoric nor reactive with water. Does not undergo explosive decomposition, is shock stable, and is not an oxygen donor. Does not form explosive mixtures with other organic materials. Will not undergo hazardous exothermic polymerization.

### 10.3 Possibility of hazardous reactions

Not known.

### 10.4 Conditions to avoid

Avoid temperatures above or at least 5 °C below flash point for any flammable liquids.  
Do not heat closed containers.  
Avoid contact with oxidizing agents.

### 10.5 Incompatible materials

Avoid strong oxidizing agents.

### 10.6 Hazardous decomposition products

Contact with water or storage under recommended conditions for one year should not produce dangerous decomposition products.

## **11 TOXICOLOGICAL INFORMATION**

### **11.1 Information on toxicological effects**

This mixture has not been subjected to toxicological testing as an entity. According to available data on the constituents the health classification criteria are met.

#### (a) acute toxicity

Calculated LD50 Oral: 300 < LD50 =< 2000 mg/kg bw

#### (b) skin corrosion/irritation

Skin Irritation - Cat. 2

#### (c) serious eye damage/irritation



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Eye Damage - Cat.1

(d) respiratory or skin sensitisation  
Skin Sensitization - Cat. 1

(e) germ cell mutagenicity  
Not applicable

(f) carcinogenicity  
Not applicable

(g) reproductive toxicity  
Not applicable

(h) STOT-single exposure  
Not applicable

(i) STOT-repeated exposure  
Not applicable

(j) aspiration hazard  
Not applicable

### **12 ECOLOGICAL INFORMATION**

This mixture has not been subjected to ecotoxicological testing as an entity. According to available data on the constituents the environmental classification criteria are not met.

12.1 Toxicity  
Not applicable

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 Results of PBT and vPvB assessment  
Not applicable

12.6 Other adverse effects  
No data available

### **13 DISPOSAL CONSIDERATIONS**

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### **13.1 Waste treatment methods**

Product: The product should be handled according to the instructions given under sections 6, 7 and 8. Dispose of according to local or national regulations. The product should not be allowed to enter drains or the environment.

Contaminated packaging: Empty packaging should be disposed according to local or national regulations by an approved waste handling

### **14 TRANSPORT INFORMATION**

In case of accidental spillage or fire during transport, refer to instructions given under points 5, 6, 7 and 8 above.

#### UNO

UN-No:	Not regulated
Proper Shipping Name:	N/A
Class:	---
Packing Group:	---

#### Land transport (ADR/RID)

UN-No:	Not regulated
Proper Shipping Name:	N/A
Class:	---
Packing group:	---

#### Sea transport (IMDG-Code)

UN-No:	Not regulated
Proper Shipping Name:	N/A
Class:	---
Packing group:	---

#### Air transport (ICAO-IATA)

UN-No:	Not regulated
Proper Shipping Name:	N/A
Class:	---
Packing group:	---

### **15 REGULATORY INFORMATION**

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

This mixture contains no toxic chemical or chemicals subject to reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 29 CFR Part 1910.1200.

#### 15.2 Chemical Safety Assessment

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No data available at this time.

### **16 OTHER INFORMATION**

#### Revisions

March-2023 : Version 12 - Updates to sections 1, 2, 3 ,8 ,9, 11, 12, 14, 15, 16

#### Key literature references

RIFM database  
OECD SIDS  
EU IUCLID  
Supplier information

#### Full text of phrases used under section 2

H318	Causes serious eye damage.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P330	Rinse mouth.
P362	Take off contaminated clothing and wash before reuse.
P363	Wash contaminated clothing before reuse.

#### Full text of phrases used under section 3

H227	Combustible liquid
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.

**We believe that the information contained herein is current as of the date of this Safety Data Sheet. Since the use of this information and the conditions of use of the product are not within the control of Firmenich, it is the user's obligation to determine conditions of safe use of the product.**

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