

# 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

**920100**  
CARBINOL MUGUET  
© Firmenich product

CAS No: 103-05-9  
EC No: 203-074-4  
REACH No: 01-2120758978-28

#### 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

Eye Irritation - Cat.2A	H319
Environmental Hazard (chronic) - Cat. 3	H412

#### Additional information

Full text of listed statements : See section 16

#### 2.2 Label elements

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### Hazard pictograms:



### Signal Word:

Warning

### Hazard Statements:

H319 Causes serious eye irritation.  
H412 Harmful to aquatic life with long lasting effects.

### Precautionary Statements:

P264 Wash thoroughly after handling.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P391 Collect spillage.

### 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.

### 3.1 Substance

Chemical substance.

#### Contains :

>= 99.0 <= 100.0%  
Benzenepropanol, .Alpha.,.Alpha.-Dimethyl-  
N° CAS : 0000103-05-9  
N° EINECS: 203-074-4  
N° EU REACH: 01-2120758978-28

#### GHS Classification:

Eye Irritation - Cat.2A [H319]  
Environmental Hazard (chronic) - Cat. 3 [H412]

## 4 FIRST-AID MEASURES

### 4.1 Description of first aid measures

General information:

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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.

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 advice immediately.

Do not induce vomiting, obtain medical advice immediately.

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

No specific data available.

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

No specific data available.

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

#### 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:

Gloves impervious to the chemical substance 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:

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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 gloves impervious to the chemical substance 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

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

Contains no substances with occupational exposure limit values

### **Derived No Effect Level (DNEL)**

DNEL Worker (dermal), systemic effects - long-term, = 0.175 mg/kg bw/day

Hazard conclusion Worker (dermal), systemic effects - acute, No exposure expected.

Hazard conclusion Worker (dermal), local effects - long-term, No exposure expected.

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Hazard conclusion Worker (dermal), local effects - acute, No hazard identified.  
DNEL Worker (inhalation), systemic effects - long-term, = 2.19 mg/m<sup>3</sup>  
Hazard conclusion Worker (inhalation), systemic effects - acute, No hazard identified.  
Hazard conclusion Worker (inhalation), local effects - long-term, No exposure expected.  
Hazard conclusion Worker (inhalation), local effects - acute, No hazard identified.  
DNEL Consumer (oral), systemic effects - long-term, = 0.222 mg/kg bw/day  
Hazard conclusion Consumer (oral), systemic effects - acute, No hazard identified.  
DNEL Consumer (inhalation), systemic effects - long-term, = 0.386 mg/m<sup>3</sup>  
Hazard conclusion Consumer (inhalation), systemic effects - acute, No hazard identified.  
Hazard conclusion Consumer (inhalation), local effects - long-term, No exposure expected.  
Hazard conclusion Consumer (inhalation), local effects - acute, No hazard identified.  
DNEL Consumer (dermal), systemic effects - long-term, = 20.8 µg/kg bw/day  
Hazard conclusion Consumer (dermal), systemic effects - acute, No exposure expected.  
Hazard conclusion Consumer (dermal), local effects - long-term, No exposure expected.  
Hazard conclusion Consumer (dermal), local effects - acute, No hazard identified.

### **Predicted No Effect Concentration (PNEC)**

PNEC Aqua (freshwater) = 69.6 µg/l  
PNEC Aqua (marine water) = 69.6 µg/l  
PNEC Water (intermittent release) freshwater = 0.696 µg/l  
PNEC Sediment (freshwater) = 1.33 mg/kg sediment dw  
PNEC Sediment (marine water) = 0.133 mg/kg sediment dw  
PNEC STP = 7.09 mg/l  
PNEC Soil = 0.225 mg/kg soil dw  
PNEC Air No hazard identified.  
PNEC Oral (secondary poisoning) No hazard identified.

### 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: None required; avoid breathing vapors.  
Hand protection: Gloves impervious to the chemical substance 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

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Appearance :	LIQUID COULD CRYSTALLIZE
Colour :	COLOURLESS
Odour :	Characteristic strong odour according to the commercial description of the substance.
pH :	Not available
Melting point/range (°C) :	= 24.5 °C
Initial boiling point/range (°C) :	= 228 °C at 101.3kPa (OECD 103)
Flash point (closed cup) :	> 212 Fahrenheit (> 100 Centigrade)
Evaporation rate :	Not available
Flammability (solid/gas) :	Not applicable
Explosive properties (St class) :	N/A
Vapor pressure (At 20°C in mm Hg) :	< 0.1 mm
Vapour density :	Not available
Relative density (d 20/20) :	= 0.963 at 21°C
Water solubility (20°C) :	= 4569.413 mg/l at 20°C (OECD 105)
Partition coef. (n-octanol/water) :	Log Kow = 2.41 (OECD 107)
Auto-ignition temperature (°C) :	Not available
Decomposition temperature :	Not available
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.

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### 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**

#### (a) acute toxicity

Acute oral toxicity - Up and Down Procedure (Rat, OECD 425, Gavage): LD50 > 2000 mg/kg  
Data on analogue - Acute Toxicity by inhalation (Rat, Mist): LC50 > 4.63 mg/l (Based on nominal concentration)

#### (b) skin corrosion/irritation

Primary Skin irritation (Rabbit, OECD 404, Semi-occlusive): Non irritant

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

Isolated Chicken Eye test method for identifying ocular corrosives and severe irritant (OECD 438):  
Inconclusive  
Data on analogue - Acute Eye irritation (Rabbit, No washout): Irritant

#### (d) respiratory or skin sensitisation

Skin sensitization : Non-sensitising to skin (Conclusion of weight of evidence based on 4 studies.)

#### (e) germ cell mutagenicity

Bacterial Reverse Mutation test (Ames) (Salmonella, OECD 471, With and without S9, 5 strains):  
Non mutagenic  
In vitro mammalian cell gene mutation test (Chinese hamster, CHO cells, OECD 476, With and without S9): Non mutagenic  
In vitro Mammalian Chromosome Aberration Test (Human, OECD 473): No chromosomal aberration

#### (f) carcinogenicity

No data available

#### (g) reproductive toxicity

Data on analogue - Prenatal development toxicity study (Rat, Occlusive, 14 day(s)):  
NOAEL (development) = 140 mg/kg/day,  
NOAEL (maternal) = 430 mg/kg/day,

#### (h) STOT-single exposure

No data available

#### (i) STOT-repeated exposure

Data on analogue - Subchronic Dermal Toxicity Study, 90 days (Rat, OECD 411): NOEL = 500 mg/kg/day

#### (j) aspiration hazard

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No data available

### **12 ECOLOGICAL INFORMATION**

#### 12.1 Toxicity

Alga, Growth Inhibition Test (Pseudokirchneriella subcapitata, OECD 201, Static):

72 h ErC50 = 100 mg/l (Based on nominal concentrations)

72 h NOEC = 25 mg/l (Based on nominal concentrations)

Daphnia sp. Acute Immobilisation Test and Reproduction Test (OECD 202, Static): 48h EC50 > 100 mg/l (Based on nominal concentrations)

Fish, Acute Toxicity Test (Zebra fish, OECD 203, Static): 96h LC50 = 69.57 mg/l (Based on nominal concentrations)

Activated Sludge, Respiration Inhibition Test (OECD 209): 3h EC50 = 708.95 mg/l (Based on nominal concentrations)

#### 12.2 Persistence and degradability

Ready Biodegradation - Closed Bottle Test (301D Screening): Enhanced biodegradable (66% in 28 day(s))

Ready Biodegradation - CO2 Evolution Test (OECD 301B, Sludge): Inherently biodegradable (53.7% in 28 day(s))

#### 12.3 Bioaccumulative potential

Log Kow = 2.41 (OECD 107)

#### 12.4 Mobility in soil

Adsorption coefficient: Log Koc = 2.19

#### 12.5 Results of PBT and vPvB assessment

Not applicable

#### 12.6 Other adverse effects

No data available

### **13 DISPOSAL CONSIDERATIONS**

#### **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.



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### 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 chemical is NOT 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

No data available at this time.

## **16 OTHER INFORMATION**

### Revisions

March-2021 : Version 10.1 - Updates to sections 1, 2, 3 ,8 ,9, 11, 12, 14, 15, 16

### Key literature references

RIFM database  
OECD SIDS  
EU IUCLID  
Supplier information

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### Full text of phrases used under section 2

H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.
P264	Wash thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P391	Collect spillage.

### Full text of phrases used under section 3

H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

**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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