

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

### 970953

CLEARWOOD®
© Firmenich product

CAS No: 1450625-49-6

EC No:

REACH No: 01-2119967775-18

# 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

### **John Carey**

Firmenich Inc. 250 Plainsboro Road Princeton - New Jersey 08536 - USA john.carey@firmenich.com Tel.:+1.609.452.1000

# 1.4 Emergency telephone number

FOR INFORMATION OR IN AN EMERGENCY CALL NCEC @ +1 215 207 0061.

# **2 HAZARDS IDENTIFICATION**

#### 2.1 Classification of the substance or mixture

# According to Regulation HCS 2012

Aspiration Hazard - Cat. 1
Environmental Hazard (chronic) - Cat. 2

Additional information

Full text of listed statements: See section 16

2.2 Label elements

#### **Hazard pictograms:**

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H304 H411

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# Signal Word:

Danger

### **Hazard Statements:**

H304 May be fatal if swallowed and enters airways.
H411 Toxic to aquatic life with long lasting effects.

### **Precautionary Statements:**

P273 Avoid release to the environment.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P331 Do NOT induce vomiting.

P391 Collect spillage. P405 Store locked up.

# 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

Natural product.

# Contains:

Reference: US

>= 99.0 <= 100.0%

Oils, Patchouli, Patchoulol Synthase-Modified Saccharomyces Cerevisiae-Fermented, From

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Carbohydrates

N° CAS : 1450625-49-6 N° EINECS: 282-493-4

N° REACH: 01-2119967775-18

**GHS Classification:** 

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Aspiration Hazard - Cat. 1 [H304]

Environmental Hazard (chronic) - Cat. 2 [H411]

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>= 30.0 < 40.0%

1,6-Methanonaphthalen-1(2h)-Ol, Octahydro-

4,8a,9,9-Tetramethyl-, [1r-

(1.Alpha., 4.Beta., 4a.Alpha., 6.Beta., 8a.Alpha.)]-

N° CAS: 0005986-55-0 N° EINECS: 227-807-2

>= 15.0 < 20.0%

Azulene, 1,2,3,4,5,6,7,8-Octahydro-1,4-Dimethyl-7-(1-Methylethenyl)-, [1s-(1.Alpha.,4.Alpha.,7.Alpha.)]-

N° CAS: 0003691-12-1

N° ELINCS: --

Aspiration Hazard - Cat. 1 [H304] Skin Irritation - Cat. 2 [H315]

Eye Irritation - Cat.2A [H319]

>=2.5 < 5.0%

Bicyclo[7.2.0]Undec-4-Ene, 4,11,11-Trimethyl-8-

Methylene-, [1r-(1r\*,4e,9s\*)]-N° CAS: 0000087-44-5 N° EINECS: 201-746-1

Aspiration Hazard - Cat. 1 [H304] Skin Sensitization - Cat. 1B [H317]

Environmental Hazard (chronic) - Cat. 4 [H413]

Environmental Hazard (chronic) - Cat. 2 [H411]

>= 0.1 < 0.5%

2,6,10-Dodecatrien-1-Ol, 3,7,11-Trimethyl-

N° CAS: 0004602-84-0 N° EINECS: 225-004-1

Skin Sensitization - Cat. 1B [H317] Skin Irritation - Cat. 2 [H315]

Environmental Hazard (acute) - Cat. 1 [H400] Environmental Hazard (chronic) - Cat. 1 [H410]

### 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.

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:

Reference: US

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.

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Do not induce vomiting, obtain medical advise immediately.

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# 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:

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

Reference: US

# 7.1 Precautions for safe handling

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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

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 generals rules for compatibility storage.

#### 7.3 Specific end use(s)

Not available at this time.

# **8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

## 8.1 Control parameters

Reference: US

Contains no substances with occupational exposure limit values

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

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DNEL Worker (dermal), systemic effects - long-term, = 3.26 mg/kg bw/day

DNEL Worker (dermal), systemic effects - acute, = 19.54 mg/kg bw/day

DNEL Worker (dermal), local effects - long-term, = 8.14 mg/kg bw/day

DNEL Worker (dermal), local effects - acute, = 48.85 mg/kg bw/day

DNEL Worker (inhalation), systemic effects - long-term, = 11.48 mg/m<sup>3</sup>

DNEL Worker (inhalation), systemic effects - acute, = 68.9 mg/m<sup>3</sup>

DNEL Worker (inhalation), local effects - long-term, = 28.71 mg/m<sup>3</sup>

DNEL Worker (inhalation), local effects - acute, = 172.26 mg/m<sup>3</sup>

DNEL Consumer (oral), systemic effects - long-term, = 1.63 mg/kg bw/day

DNEL Consumer (oral), systemic effects - acute, = 9.77 mg/kg bw/day

DNEL Consumer (inhalation), systemic effects - long-term, = 2.83 mg/m<sup>3</sup>

DNEL Consumer (inhalation), systemic effects - acute, = 16.99 mg/m<sup>3</sup>

DNEL Consumer (inhalation), local effects - long-term, = 7.08 mg/m<sup>3</sup>

DNEL Consumer (inhalation), local effects - acute, = 42.48 mg/m<sup>3</sup>

DNEL Consumer (dermal), systemic effects - long-term, = 1.63 mg/kg bw/day

DNEL Consumer (dermal), systemic effects - acute, = 9.77 mg/kg bw/day

DNEL Consumer (dermal), local effects - long-term, = 4.07 mg/kg bw/day

DNEL Consumer (dermal), local effects - acute, = 24.43 mg/kg bw/day

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# Predicted No Effect Concentration (PNEC)

PNEC Aqua (freshwater) = 0.006 mg/l

PNEC Agua (marine water) = 0.006 mg/l

PNEC Water (intermittent release) freshwater = 0.006 mg/l

PNEC Sediment (freshwater) = 4.6 mg/kg sediment dw

PNEC Sediment (marine water) = 4.6 mg/kg sediment dw

PNEC STP = 10 mg/l

PNEC Soil = 0.479 mg/kg soil dw

PNEC Air No hazard identified.

PNEC Oral (secondary poisoning) = 65.1 mg/kg food

### 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: 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

**COLOURLESS TO YELLOW** Colour:

Odour: Characteristic strong odour according to the

commercial description of the substance.

: Ha Not available

< -20 °C (OECD 102) Melting point/range (°C):

Initial boiling point/range (°C): = 273 °C at 96.9kPa (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):  $< 0.1 \, \text{mm}$ Vapour density: Not available

Relative density (d 20/20): = 0.957 at 20°C (OECD 109) Water solubility (20°C): = 11.7 mg/l at 20°C (OECD 105) Partition coef. (n-octanol/water): Log Kow > 1.99 - 5.7 (OECD 117)

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Auto-ignition temperature (°C): = 236 °C at 101.7 - 102.2kPa (Method A15)

Decomposition temperature : Not available

Viscosity:  $= 8.28 \text{ mPa.s at } 40^{\circ}\text{C (OECD } 114)$ 

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

(a) acute toxicity

Reference: US

Acute oral toxicity (Rat, Gavage): LD50 > 5000 mg/kg Acute dermal toxicity (Rabbit): LD50 > 5000 mg/kg

(b) skin corrosion/irritation

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

(c) serious eye damage/irritation

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In vitro Bovine corneal opacity and permeability (BCOP) test (OECD 437): Non irritant Acute Eye irritation (Rabbit, OECD 405): Non irritant

(d) respiratory or skin sensitisation

Local Lymph Node Assay (LLNA) OECD 429: Non-sensitising to skin

(e) germ cell mutagenicity

Bacterial Reverse Mutation test (Ames) (Salmonella + E. Coli, OECD 471, With and without S9, 5

strains): Non mutagenic

In vitro mammalian cell gene mutation test (Mouse, L5178Y cells, OECD 476, With and without S9):

Non mutagenic

In vitro Mammalian Chromosome Aberration Test (Chinese hamster, OECD 473): No chromosomal

aberration

(f) carcinogenicity

No data available

(g) reproductive toxicity

Reproduction/Developmental Toxicity Screening Test (Rat, OECD 421, Dietary):

NOEL (general) = 277 mg/kg/day,

NOEL (reproduction) = 277 mg/kg/day,

NOEL (development) = 277 mg/kg/day,

(h) STOT-single exposure

No data available

(i) STOT-repeated exposure

Repeated Dose 28-Day Oral Toxicity Study in Rodents (Rat, OECD 407, Dietary): NOAEL = 977 mg/kg/day

(j) aspiration hazard

No data available

### 12 ECOLOGICAL INFORMATION

12.1 Toxicity

Reference: US

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

96 h EL50 > 100 mg/l

96 h NOELR = 25 mg/l

Daphnia sp. Acute Immobilisation Test and Reproduction Test (OECD 202, Static): 48h EL50 = 21 mg/l (Based on nominal concentration)

Fish, Acute Toxicity Test (Rainbow trout (Oncorhynchus Mykiss), OECD 203, Semi-static): 96h

LL50 = 5.7 mg/l (Based on nominal concentration)

Activated Sludge, Respiration Inhibition Test: NOEC = 100 mg/l

Data on component - Earthworm, Acute Toxicity Tests (Eisenia foetida, OECD 207, 14 day(s)):

LC50 = 766 mg/kg (Based on nominal concentration)

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Data on component - Earthworm, Acute Toxicity Tests (Eisenia foetida, OECD 207, 14 day(s)): LC50 = 420 mg/kg (Based on nominal concentration)

12.2 Persistence and degradability

Ready Biodegradation - Manometric Respirometry Test (OECD 301F, Sludge): Rapidly biodegradable (64% in 28 day(s))

12.3 Bioaccumulative potential

Log Kow > 1.99 - 5.7 (OECD 117)

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

### 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: 3082

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (SUGAR DERIVED

PATCHOULI TYPE OIL)

Class: Packing Group: Ш

Hazardous to the Environment

# Land transport (ADR/RID)

UN-No: 3082

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SUGAR

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DERIVED PATCHOULI TYPE OIL)

Class: Packing group: Ш

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### Sea transport (IMDG-Code)

UN-No: 3082

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SUGAR

DERIVED PATCHOULI TYPE OIL)

Class: 9
Packing group: III

Marine pollutant

Air transport (ICAO-IATA)

UN-No: 3082

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (SUGAR DERIVED

PATCHOULI TYPE OIL)

Class: 9
Packing group: III

### 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 Amendements 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

Reference: US

Jun-2020: Version 9.2 - 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

H304 May be fatal if swallowed and enters airways.
H411 Toxic to aquatic life with long lasting effects.

P273 Avoid release to the environment.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P391 Collect spillage.

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P331 Do NOT induce vomiting.

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P405 Store locked up.

### Full text of phrases used under section 3

H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects 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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Reference: US